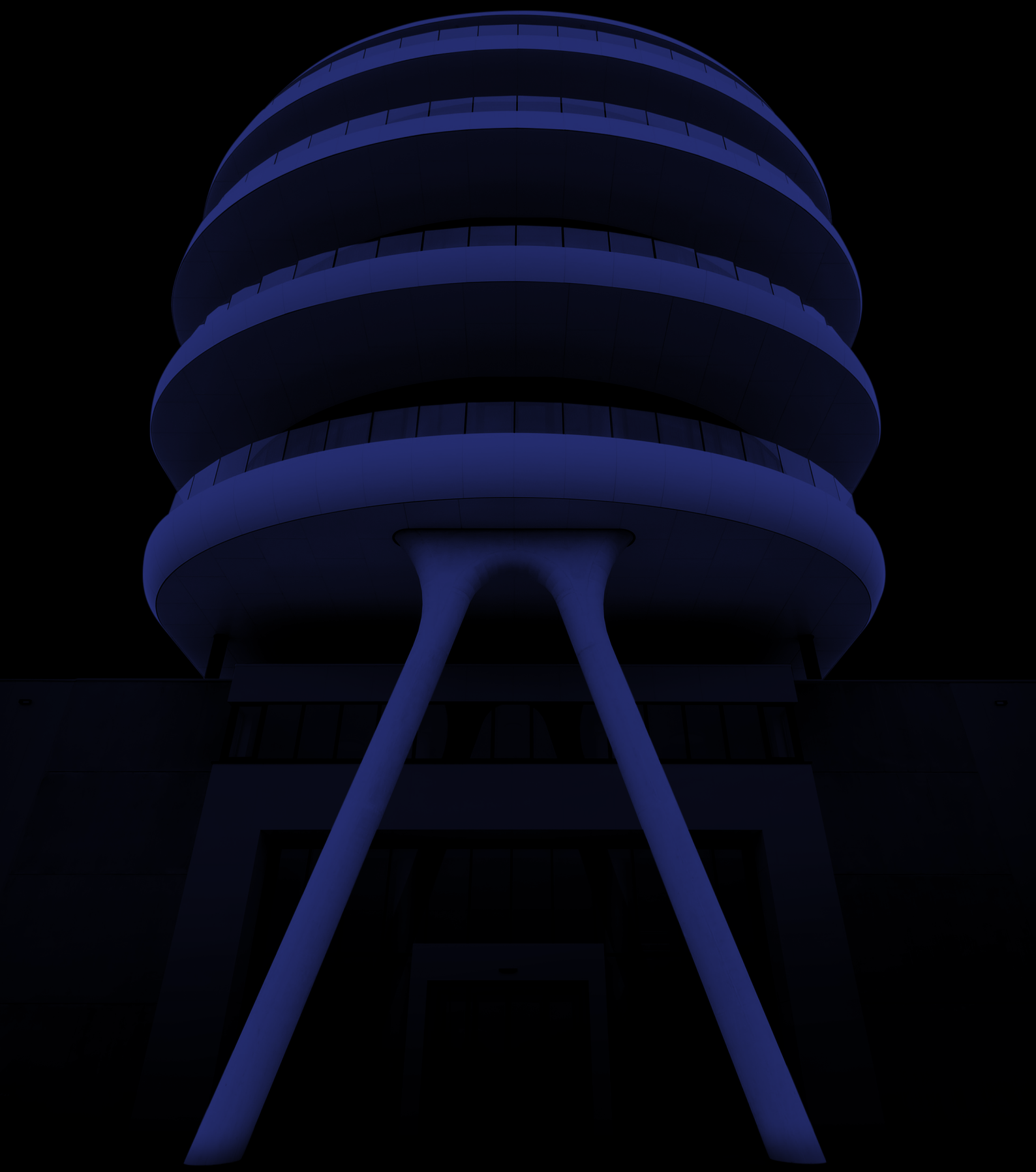
XAL 22

EN ES



Spotlights & Downlights

UNICO
recessed

linear **52**

square **62**

ceiling

linear **70**

square **74**

44

wall surface

linear NEW **78**

wall recessed

square NEW **82**

SPIO
recessed

60 round NEW **90**

86

CAVO
recessed

round **100**

square **100**

linear **104**

96

SASSO
recessed

40 round NEW **116**

60 round **120**

60 round sensor NEW **124**

60 round emergency light NEW **124**

60 square **134**

100 round **122**

100 square **136**

108

semi-recessed

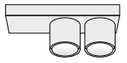
60/100 round **140**

60/100 square **150**

ceiling

60/100 round **142**

60/100 square **152**


60 round base **160**

60 square base **160**

suspended

60/100 round **156**

60 round NEW **156**

wall

60 direct NEW **164**

60 direct/indirect NEW **164**

100 direct NEW **164**

100 direct/indirect NEW **164**

140

SASSO PRO
recessed

80 flush **172**

80 offset **172**

100 flush **174**

100 offset **174**

168

MOVE IN
recessed

32 round NEW **184**

45 round NEW **184**

32 round flex NEW **186**

45 round flex NEW **186**

45 square NEW **190**

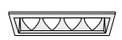
180

TWIST
recessed

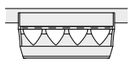
recessed NEW **196**

194

SQUADRO
recessed


wallwasher **212**

track


wallwasher **216**

208

BO
semi-recessed

32 **226**

45 **226**

55 **226**

surface

32 **226**

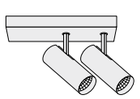
45 **226**

55 **226**

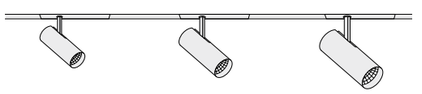
222

surface

45 base **234**


45 base **234**

track


32 **238**

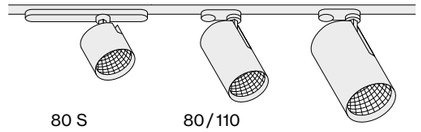
45 **238**

55 **238**

55/70 **244**

222

VARO
track

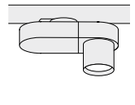

80 S **250**

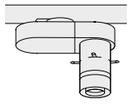
80/110 **258**

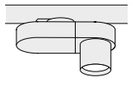
258

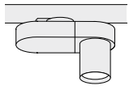
248

PABLO
track


basic/focus **268**


shutter/iris/gobo **270**


colour tune **274**


multilens NEW **278**

264

ARY
suspended

rod **290**

cable **296**

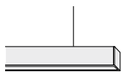
shade **296**

288

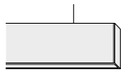
TRACK
3-phase

recessed **305**

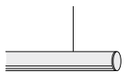
surface **306**


suspended **306**

high surface **307**

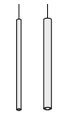

high suspended **307**

round surface **308**


round suspended **308**

300

TULA
suspended


nano/micro NEW **282**

280

Luminaires

MITA
recessed

circle 160 NEW **316**

circle NEW **320**

square NEW **326**

ceiling

circle NEW **330**

314

COMBO
recessed

trim **336**

334

VELA
surface

surface **344**

suspended

suspended **348**

342

SONO
recessed

recessed **360**

surface

surface **364**

loop surface **370**

356

FLOW
surface

surface **376**

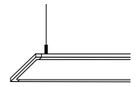
374

JANE
semi-recessed
surface
suspended

NEW **384**

380

DESO
suspended


suspended NEW **396**

394

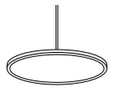
TASK
surface

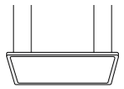
round/ acoustic **404**

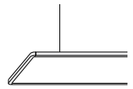
square/ acoustic **416**

ceiling **424**

suspended

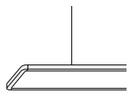

round/ acoustic **410**


square/ acoustic **420**


suspended **428**

400

suspended


S suspended **432**

wall

wall **436**

free standing

free standing **440**

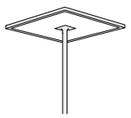
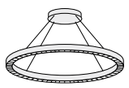
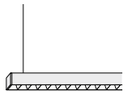

square **446**

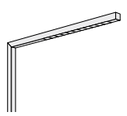
table **452**

BETO
suspended


circle NEW **464**

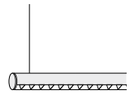

suspended **470**

free standing


free standing **476**

460

SETA
suspended


suspended NEW **486**

484

LENO
recessed
semi-recessed

trim **492**

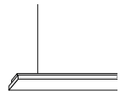
trimless **492**

semi-recessed **496**

surface

surface **500**

suspended


suspended **504**

490

MINIMAL
recessed
trimless

60/100 **510/512**

508

MINO
surface/
suspended

40/60/100 **534/544/552**

532

TUBO
surface

60 NEW **572**

100 **576**

568

INO
suspended

circle **584**

square **590**

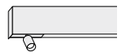
580

LITO
suspended

60 **612**

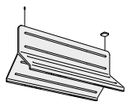
610

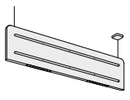
LINEA
wall


wall NEW **634**

632

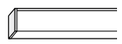
MUSE
acoustic
suspended


double light **658**


light/baffle **664**

654

CORNER
surface


surface **678**

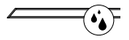
676

FRAME
recessed
trim

40/60/100 **518/520/522**

516

BASO
recessed
trim

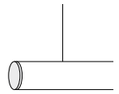

surface

60 **558**

556

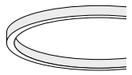
suspended

60 NEW **572**

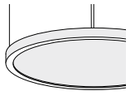

100 **576**

568

MINO CIRCLE
ceiling

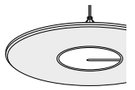

ceiling/ acoustic **596**

suspended


suspended/ acoustic **598**

594

SONIC
suspended

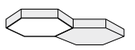

suspended/ acoustic **618**

free standing

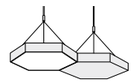
free standing/ acoustic **624**

616

HEX-O
ceiling

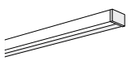

ceiling/ acoustic **642**

suspended


suspended/ acoustic **646**

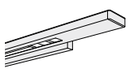
638

STRETTA
surface


surface **672**

670

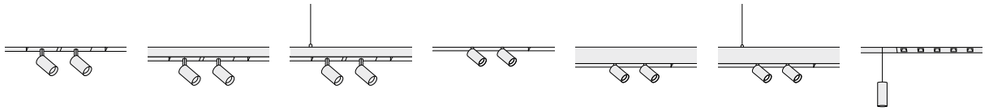
RECOVER
wall


wall **686**

682

Systems

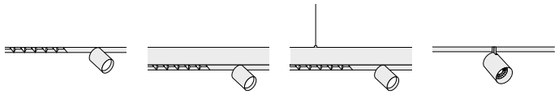
MOVE IT 25
recessed
surface
suspended



25 S recessed	25 S surface	25 S suspended	25 recessed	25 surface	25 suspended	insets
701	**702**	**702**	**705**	**706**	**706**	**710**

694

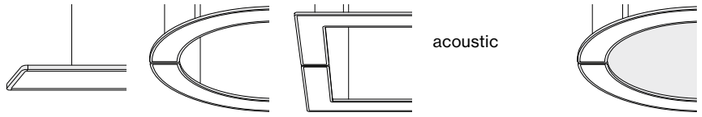
MOVE IT 45
recessed
surface
suspended



45 recessed	45 surface	45 suspended	insets
785	**786**	**786**	**790**

778

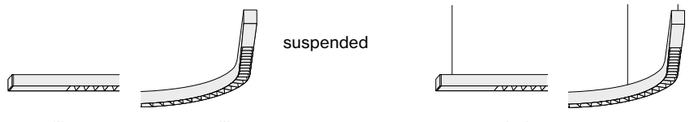
TASK
suspended



S suspended	circle	angular	acoustic	inlay
812	**820**	**826**		**820 / 826**

808

BETO
ceiling

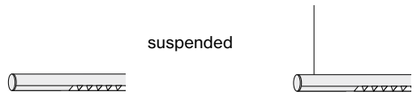


suspended

ceiling	curve ceiling	suspended	curve susp.
838	**838**	**838**	**838**

834

SETA
ceiling



suspended

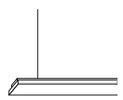
ceiling	suspended
NEW **854**	NEW **854**

850

LENO
recessed
semi-recessed

surface

suspended



trim	trimless	semi-recessed	surface	suspended
862	**866**	**870**	**874**	**876**

858

MINIMAL
recessed
trimless

60	100
880	**882**

878

FRAME
recessed
trim

40	60	100
890	**892**	**898**

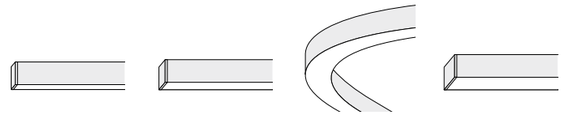
888

CANYON
recessed
trim offset

60
904

902

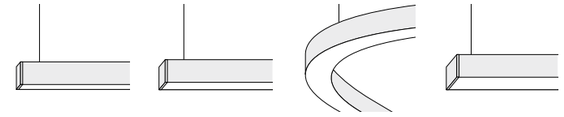
MINO
ceiling



40	60	60 curve	100
912	**914**	**916**	**928**

908

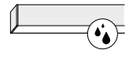
suspended



40	60	60 curve	100
912	**914**	**916**	**928**

BASO
recessed
trim

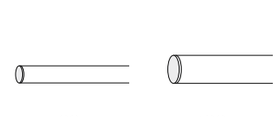
surface



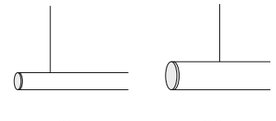
60	60
936	**940**

934

TUBO
surface



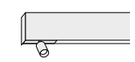
suspended



60	100	60	100
NEW **952**	**954**	NEW **952**	**954**

948

LINEA
wall



wall
NEW **960**

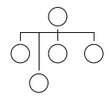
958

Controls

DALI-2 control

970

Professional building management



976

Casambi

CASAMBI

NEW **978**

DIN rail components

NEW **980**

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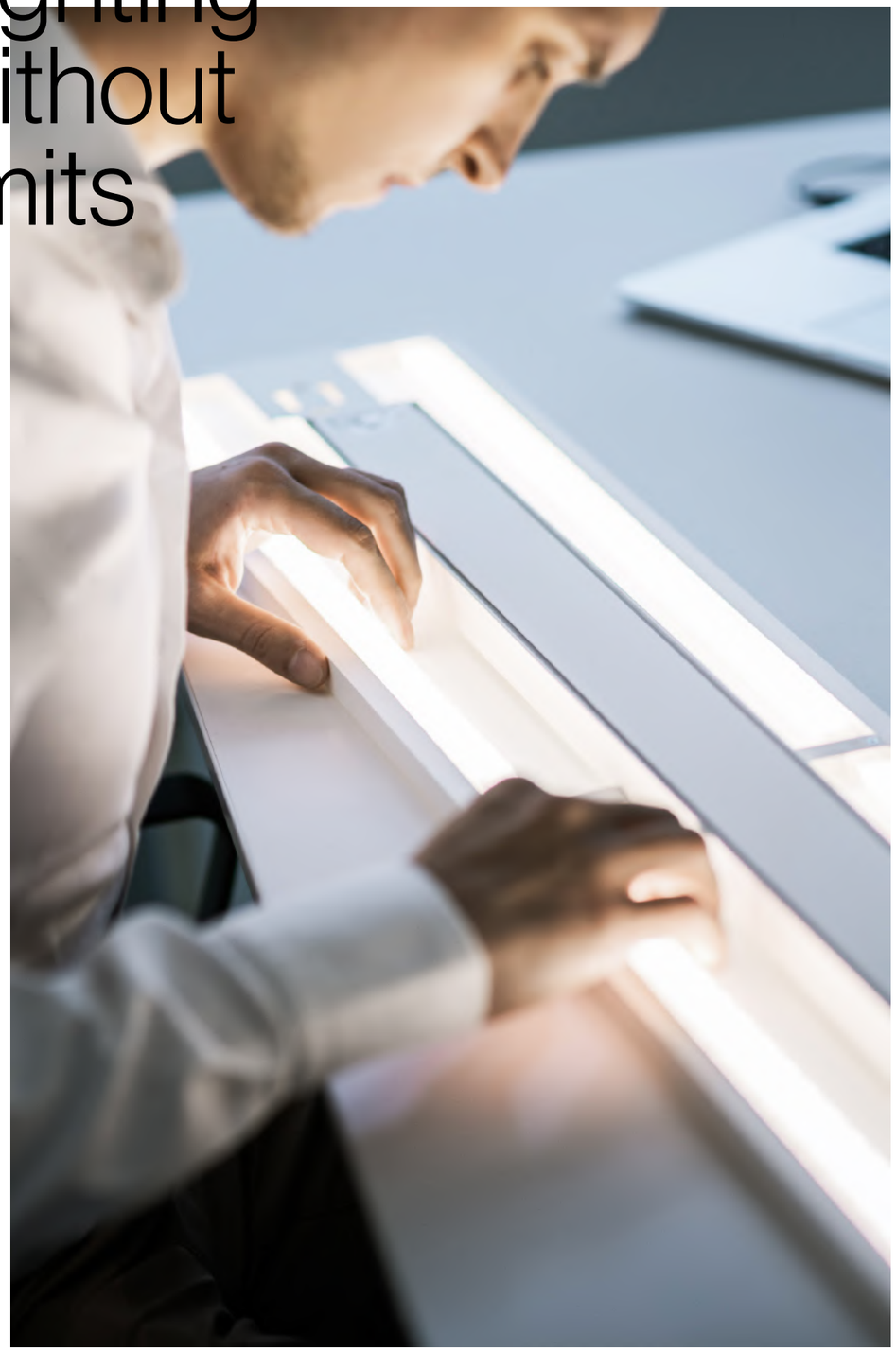
Lighting without limits



EN It all begins with a passion for light. For more than 30 years, XAL has been working with lighting designers and architects to develop custom luminaires of the highest technical standard, which impress with their style and aesthetics. There is always one goal: to push the boundaries of the technically feasible, enabling visionary designs. We can meet this challenge because our employees in our design labs as well as in our production and sales locations around the world deliver top performance. Being on-site for our customers is essential for mutual success. Thanks to organisational efficiency and high in-house production depth, we can tailor our response to the needs of our customers and continuously expand our existing product portfolio. Meeting seemingly impossible challenges is our daily motivation and inspiration. From novel concept to luminaire innovation: a path created by crossing borders. **Lighting without limits.**

ES Todo empieza con nuestra pasión por la luz. Desde hace más de 30 años, XAL crea, en colaboración con diseñadores de iluminación y arquitectos, luminarias del máximo nivel tecnológico que impresionan por su estilo y su atractivo estético. Siempre con un objetivo: rebasar los límites de lo técnicamente factible y facilitar la creación de diseños visionarios. Esto es posible gracias a la colaboración entre nuestros equipos que trabajan en nuestros laboratorios de diseño, centros de producción y oficinas de venta en todo el mundo. Estar allí donde nuestros clientes nos necesitan, es esencial para que juntos podamos tener éxito. Gracias a nuestra eficiencia organizativa y a una elevada integración vertical de la producción, somos capaces de responder a las necesidades de los clientes de manera individual y ampliar continuamente nuestro catálogo de productos existente. Satisfacer requisitos aparentemente imposibles nos impulsa y nos inspira diariamente. Desde el esquema más novedoso hasta la innovación en la creación de las luminarias: un camino basado en la superación de los límites. **Lighting without limits**

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Lighting and Interior Design by Eef Debeuf p. 18

The Gherkin London, UK
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Chanel Paris, FR
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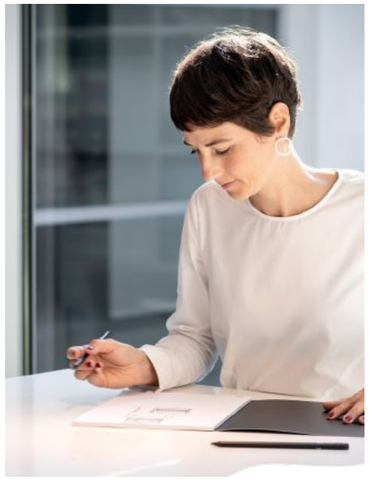
Press Glass Headquarters Konopiska, PL
Architecture by Tomasz Konior, Konior Studio p. 36

Design Lab

EN Light and design merge in our Barcelona Creative Lab (BCL). The location is in close contact with the XAL Competence Center (XALcc) in Graz – two worlds that inspire and complement each other. Our employees research and extrapolate trends and develop concepts at the highest level of lighting technology. We work with international lighting designers and architects, continually striving to explore boundaries and make challenging designs possible. Courage and openness are our Design Lab's values that generate ground-breaking innovations.

ES La luz y el diseño se fusionan en el centro creativo de XAL en Barcelona. Este polo creativo está en estrecho contacto con la central de XAL en Graz, dos visiones con personalidad propia que se inspiran y complementan mutuamente. Nuestros equipos investigan teniendo en cuenta las tendencias más innovadoras y desarrollan conceptos del más alto nivel en la tecnología de la iluminación. Trabajamos con arquitectos y diseñadores de iluminación internacionales, esforzándonos continuamente por explorar los límites y hacer posibles diseños desafiantes. Valentía y una mentalidad abierta son los valores de nuestro laboratorio de diseño dónde se crean innovaciones revolucionarias.



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Research & Engineering

EN Our Competence Center provides the laboratory infrastructure needed to turn bold ideas into revolutionary products. Design prototypes are gradually perfected up to the assembly test at XAL HQ in terms of technology, economy, and design. As all relevant development, testing, and manufacturing processes are carried out in-house, we can implement custom designs and meet unique customer requirements quickly and flexibly. The results speak for themselves. We have over 70 registered patents worldwide and a continuously growing product portfolio that delivers exceptional performance.

ES Nuestro centro de competencia ofrece la infraestructura de laboratorio necesaria para crear productos revolucionarios partiendo de ideas audaces. En la sede central de XAL, los prototipos diseñados se perfeccionan paso a paso en el terreno tecnológico, económico y creativo hasta alcanzar la prueba de montaje. Debido a que todos los procesos de desarrollo, verificación y fabricación se llevan a cabo en nuestras propias instalaciones, también somos capaces de fabricar productos a medida y de implementar diseños especiales del cliente con rapidez y flexibilidad. Los resultados hablan por sí solos: más de 70 patentes registradas en todo el mundo y un catálogo de productos en continuo crecimiento y con un rendimiento extraordinario.

In-house Manufacturing

EN We are certain that the highest quality and flexibility can only be achieved through in-house expertise along the value chain. That is why we manufacture almost exclusively in-house with state-of-the-art production technologies, at our own locations in Austria, Slovenia, and the USA. Every step is carried out in our modern production facilities – from electronics production, turning, milling, laser engraving, and die-casting to the final powder coating and finishing. This grants us maximum quality control, even for one-off and bespoke products and allows us to react with agility to customer requirements.

ES Estamos convencidos de que la máxima calidad y flexibilidad solo se consigue utilizando nuestra propia competencia profesional a lo largo de toda la cadena de creación de valor. Por eso, nuestra producción se lleva a cabo casi exclusivamente en nuestras instalaciones, más concretamente en nuestros propios centros de Austria, Eslovenia, India y EE.UU. dotados de las tecnologías de fabricación más modernas. Desde la fabricación de componentes electrónicos, pasando por las labores de torneado, fresado, grabado a láser y fundido a presión y finalizando con el recubrimiento de polvo y el acabado, cada paso de trabajo se lleva a cabo en nuestras modernas plantas de producción propias. Esto nos permite controlar la calidad de nuestros productos máximo y proporcionar un servicio adecuado en la customización de productos para nuestros clientes.

Quality Labs

EN Our many years of LED know-how ensure top workmanship throughout the entire production process. LEDs are subjected to a precise spectrometric analysis on delivery. Extensive quality tests are carried out in all areas, from PCB production on the optimum production line, in the high-end ESD assembly areas, to the finished product. XAL's light laboratory uses near-field goniophotometers to measure whether luminous flux and light distribution meet the requirements. All luminaires are tested for their electromagnetic compatibility in the EMC chamber. The exact measurement of the colour temperature and efficiency of the luminaire is also essential. This is how we optimise each product for its specific application.

ES Nuestra dilatada experiencia con la tecnología LED garantiza la máxima calidad de fabricación durante el proceso de producción. Nada más recibir los componentes de nuestros proveedores, sometemos a los LED a un análisis espectrométrico preciso. En todas las áreas se llevan a cabo pruebas de calidad exhaustivas, desde la fabricación de pletinas en la cadena de montaje para cada caso concreto y el ensamblaje en las zonas zonas de descarga electrostática, hasta el producto acabado. En el laboratorio de iluminación de XAL se mide si el flujo luminoso y la distribución de la luz se corresponden con los requisitos, utilizando un goniofotómetro de campo cercano. En la cámara de CEM se comprueba la compatibilidad electromagnética de todas las luminarias. La medición exacta de la temperatura de color y el rendimiento de la luminaria son también aspectos esenciales de nuestras comprobaciones. Así optimizamos cada producto para su campo de aplicación específico.

ISO 9001 · ISO 14001 · ISO 45001

Customised Solutions

EN Some visions fill space; others create it. Even the most extensive product portfolio cannot always meet a design's specific requirements. That is why we work with you to develop bespoke lighting solutions that are precisely tailored to the architectural and aesthetic needs of your project. Depending on the size of the project, we implement both minor adaptations to existing XAL products and designs of completely new innovations.

ES Algunas visiones llenan el espacio, otras lo crean. Incluso la gama de productos más amplia no siempre puede cumplir con los requisitos específicos de un proyecto. Por eso trabajamos con usted para desarrollar soluciones de iluminación a medida que se adapten con precisión a las necesidades arquitectónicas y estéticas de su proyecto. Dependiendo del tamaño del proyecto, implementamos tanto pequeñas adaptaciones a los productos XAL existentes, como la creación de innovaciones completamente nuevas.

Acoustic Planning

EN A quiet working environment boosts concentration, reduces errors, and improves the efficiency and quality of work. Whether for a new construction or acoustic retrofitting, our room-acoustics experts help you with tailored and standard-compliant acoustic planning. We have different methods for this, from simple calculations to 3D simulations with realistic soundwave propagation to exact on-site sound measurements. We create a holistic lighting and acoustic concept in close coordination with you and our lighting design team. This delivers the best balance between lighting, ambience, and room-acoustic conditions.

ES Un entorno laboral tranquilo mejora la concentración, reduce los errores y aumenta la eficiencia y la calidad del trabajo. Ya se trate de nuevas construcciones o de la instalación de elementos acústicos en edificios existentes, nuestros especialistas en acústica le ayudarán a realizar una planificación acústica personalizada y adaptada a la normativa. Trabajamos con distintos métodos, desde cálculos sencillos y mediciones precisas del sonido en la instalación hasta el uso de simulaciones 3D con propagaciones de las ondas sonoras. En coordinación con el cliente y con nuestro equipo de planificación luminotécnica, creamos un esquema de luz y acústica integral. Esto nos permite lograr un equilibrio óptimo entre la iluminación, el ambiente y las condiciones acústicas de los espacios.

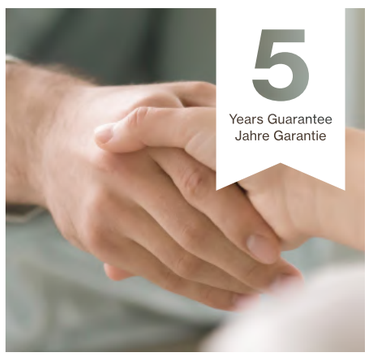
Sustainability

EN As a company, we see ourselves as part of a larger whole to which we are committed – now, and for a future worth living. Climate protection has always been a focus of our work, not only because our products can make a significant contribution to improving our customers' environmental footprint but also because we are continuously reducing our emissions, for example by setting up and using our own photovoltaic systems, climate-conscious business travel management, and switching to e-mobility. Social responsibility is just as important to us as ecological responsibility, which is why we have anchored sustainability as a fundamental principle of our actions across all organisational levels. In 2019 we joined the UN Global Compact initiative whose principles guide our interactions with each other and our communities, our supply chain management, and our resource strategies. We believe our actions and our products' lifecycles must be traceable and transparent, which is why we welcome the continuous tightening of ecodesign standards at the EU level, such as most recently the new EPREL requirements. Among other initiatives, we make our ISO certification for environmental management, our corporate social responsibility ranking conducted by EcoVadis, and an increasing number of environmental product declarations available to our stakeholders. This is what we do to help improve the quality of life for everyone.

ES Como empresa, nos consideramos parte de un todo mucho más importante con el que estamos comprometidos ahora y en el futuro. Una preocupación central de nuestro trabajo ha sido siempre la protección del clima: no solo porque nuestros productos pueden contribuir considerablemente a mejorar los balances climáticos de nuestros clientes, sino también porque reducimos continuamente nuestras propias emisiones mediante la construcción y el uso de instalaciones fotovoltaicas, una gestión de viajes de empresa consciente de las consecuencias climáticas y el cambio a la movilidad eléctrica, entre otros medios. Tan importante como nuestra meta medioambiental es nuestra responsabilidad social, por lo que hemos anclado la sostenibilidad como principio básico de nuestra actuación en todos los niveles de la organización. En 2019 nuestra empresa se unió al Pacto Mundial de las Naciones Unidas, cuyos principios rigen nuestras relaciones entre miembros de la empresa y con nuestro entorno, la gestión de la cadena de suministro y nuestras estrategias de uso de los recursos. Creemos que nuestra actuación y el ciclo de vida de nuestros productos deben ser claros y transparentes, por lo que celebramos la continua ampliación del estándar de ecodiseño a nivel europeo, como por ejemplo los últimos requisitos de registro en la base de datos EPREL. En el caso de que requieran información adicional con relación a este asunto, estaremos encantados de proporcionarles, entre otras cosas, nuestra certificación ISO de gestión medioambiental, nuestra clasificación en el ranking de responsabilidad social corporativa de EcoVadis y un número cada vez mayor de declaraciones medioambientales de productos; esta es nuestra labor destinada a mejorar la calidad de vida de las personas.

BRONZE 2021 ecovadis Sustainability Rating

WE SUPPORT UN GLOBAL COMPACT



Guarantee

EN We trust our products. You can too. Guaranteed. XAL luminaires are manufactured to meet the highest standards. Today, tomorrow, and in five years' time. Since we are certain of this thanks to state-of-the-art development and production processes and sustainable technologies, you will automatically enjoy our 5-year guarantee.

ES Confiamos en nuestros productos. Eso también puede hacerlo usted. Garantizado. Las luminarias XAL se fabrican para satisfacer las máximas exigencias. Hoy, mañana, y en cinco años. Como estamos seguros de ello debido al empleo de los procesos de desarrollo y fabricación más modernos y al uso de tecnologías sostenibles, le ofrecemos automáticamente una garantía de 5 años.

Support across all project phases

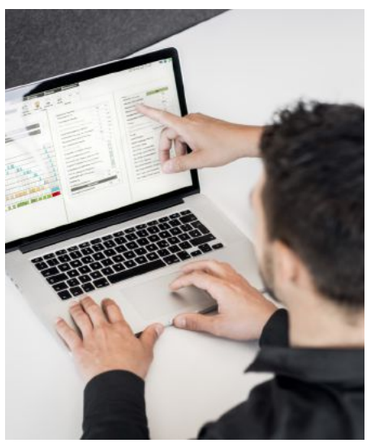
EN Planning a lighting system is often complex. Benefit from our many years of experience in modern lighting systems and use XAL's lighting planning service for your complete bespoke solution. Our internal planning department supports you with lighting planning and luminaire selection, as well as with choosing the right control system. We help you with the installation and commissioning of your lighting system. This includes expert installation and programming of all luminaires so you can manage them centrally right away. We also provide RELUX, DIALux, and REVIT support, as well as installation videos and after-sales services. We are pleased to offer you a webchat on xal.com to answer your enquiries even better and faster.

ES La planificación de un sistema de iluminación es a menudo una tarea compleja. Benefíciese de nuestra amplia experiencia en iluminación con modernos sistemas lumínicos y utilice el servicio de planificación luminotécnica de XAL para obtener una solución a su medida. Nuestro departamento de planificación le ayudará a llevar a cabo el planeamiento, a elegir las luminarias y a sugerirle el sistema de control apropiado. También le asistiremos en las labores de montaje y puesta en funcionamiento de su sistema de iluminación. Esto incluye la instalación y programación de todas las luminarias para que usted pueda gestionarlas de manera centralizada. Además, le ofrecemos asistencia con las herramientas RELUX, DIALux y REVIT, vídeos de montaje y servicios posventa. En xal.com también le ofrecemos un webchat para poder responder a sus preguntas con mayor eficacia y celeridad.

Digital Services Solution

EN Get the most out of your building with a lighting system that thinks for itself. Whether you want to reduce your energy consumption or create a healthy room atmosphere using modern sensor technology, our XAL Digital-Service-Solutions team can help you develop a customised lighting control system or integrate our luminaires into an existing building management system. We accompany you from the selection of the appropriate control system to programming and commissioning, as well as evaluation of building data to optimise building utilisation and energy consumption.

ES Saque el máximo partido a sus proyectos- con un sistema de iluminación inteligente. Si desea reducir su consumo de energía o crear una atmósfera saludable utilizando los sensores más modernos, nuestro equipo de soluciones de Servicios Digitales XAL le ayudará a crear un control de iluminación inteligente a su medida o integrará nuestras luminarias en su sistema de gestión del edificio. Nuestro equipo de profesionales le asesorará desde la elección del sistema de control adecuado y su programación y puesta en marcha hasta la evaluación de los datos del edificio para optimizar el uso y el consumo de energía del mismo.



Around the world

EN We are always near you. Our international sales offices enable us to work with lighting designers and architects all over the world. The international exchange and shared passion for light have shaped the cosmopolitanism that characterises XAL. Today we develop and produce innovative luminaires on three continents and supply our customers worldwide.

ES Estamos a su disposición. Nuestras delegaciones internacionales nos permiten trabajar directamente con diseñadores y arquitectos en todo el mundo. El intercambio internacional y la pasión compartida por la iluminación han marcado el espíritu de apertura que caracteriza a XAL. Hoy creamos y fabricamos luminarias innovadoras en tres continentes y suministramos nuestros productos a clientes de todo el mundo.

AUSTRIA, XAL GmbH
Graz
Klagenfurt
Leonding
Thaur
Vienna

BELGIUM, XAL
Kortrijk

CHINA, XAL
Hong Kong

FINLAND, XAL Finland Oy
Helsinki

FRANCE, XAL Sarl
Lyon
Paris

GERMANY, XAL GmbH
Berlin
Cologne
Frankfurt
Hamburg
Munich
Stuttgart

INDIA, XAL Pvt. Ltd.
Pune

ITALY, XAL Srl
Bolzano

NETHERLANDS, XAL B.V.
Amsterdam

NORWAY, XAL AS
Oslo

POLAND, XAL Sp. z.o.o.
Warsaw

SLOVAKIA, XAL Eastern Europe k.s.
Bratislava

SPAIN, XAL Iluminación S.L.
Barcelona
Madrid

SWEDEN, XAL AB
Stockholm

SWITZERLAND, XAL Schweiz GmbH
Basel
Bern
Lausanne
Lucerne
Zürich

UNITED ARAB EMIRATES, XAL DMCC
Dubai

UNITED KINGDOM, XAL Ltd.
London

USA, XAL Inc.
New York
Oxford

All contacts:
xal.com/location

Aertssen Logistics
Beveren, BE

Architecture by
Mertens Architecten

Lighting and Interior Design by
Eef Debeuf

UNICO
MINO circle
MOVE IT 25 system

Discreet lighting

EN A futuristic building is reminiscent of a modern boat, in an industrial environment. A unique contrast. The chosen lighting system is as unique as the building itself. It is so powerful that it was used for much of the interior, across various ceiling heights. A further requirement was that no lighting fixtures should be visible from the outside through the transparent façade. Nothing should distract from the building's beauty. A luminaire was needed that was small, beautifully designed, and yet met the demands for high light quality in an office environment. In addition, the desire was to use a single luminaire model to create unity between the areas on the different floors. The UNICO downlight was the right solution as it meets all the requirements. It is almost invisible and so powerful that UNICO was used for different ceiling levels such as the entrance hall with a ceiling height of over five metres and for the general office spaces.

ES Un edificio futurista que se asemeja a una moderna embarcación anclada en una zona industrial. Un contraste único. El sistema de iluminación elegido es tan excepcional como el propio edificio, y tan potente que se ha utilizado para iluminar la mayor parte del espacio a distintas alturas de techo. Uno de los requisitos era que las luminarias utilizadas debían permanecer invisibles desde el exterior. Nada debía distraer al contemplar la bella forma del edificio. Era necesario elegir una luminaria que tuviera un tamaño reducido, un bonito diseño y a la vez pudiera ofrecer una alta calidad de luz en un entorno de oficinas. Además, se deseaba crear una conexión entre las áreas de los distintos pisos mediante el uso de una misma luminaria. La solución se encontró en el downlight UNICO. Este satisface todos los requisitos: UNICO es prácticamente invisible, y tan potente que puede utilizarse a distintas alturas – como en el vestíbulo, de una altura de más de cinco metros– y en las oficinas de uso general.

“As interior designers, our job is to craft an environment that makes people feel comfortable. Lighting in particular plays a major role in this.“

Eef Debeuf, Interior Designer

Aertssen Logistics
Beveren, BE –
by Mertens Architecten with lighting and
interior design by Eef Debeuf

The Gherkin
London, UK

Architecture by
Foster + Partners

Lighting Design by
Zoe Faulkner,
Troup Bywaters + Anders

FRAME customised
SASSO 60

Iconic lighting

EN The Gherkin, designed by Foster + Partners, is a fantastic example of how light can highlight a building's architecture. The dazzling glass-fronted skyscraper is one of London's most distinctive landmarks. Lighting and architecture were to merge into one concept: bold, adaptable, and timeless. Each illuminated curve in the ceiling is a bespoke profile system, adapted to precise dimensions and angles. Visitors entering the building are greeted by a homogeneous illuminated imprint of the iconic building structure.

ES The Gherkin, diseñado por Foster + Partners, es un magnífico ejemplo de cómo utilizar la iluminación para realzar los aspectos arquitectónicos de un edificio. Este unico rascacielos con fachada de cristal es uno de los símbolos más destacados en la ciudad de Londres. La iluminación y la arquitectura debían fundirse en un solo concepto atrevido, adaptable y atemporal. El sistema de iluminación propuesto por XAL se compone de un sistema de perfiles hecho a medida que se ha adaptado a dimensiones y ángulos precisos.

The Gherkin London

“The building is the focus, and the custom lighting serves as a tool, in a sense, to showcase this iconic building.”

Zoe Faulkner, Troup Bywaters and Anders

Chanel
Paris, FR

Architecture by
ORY Architecture

Lighting Design by
Distylight

MOVE IT 25 system

A wonderful place

EN Home to a banking institution for almost seventy years and an office building from the late 1980s onwards, the imposing building on Rue Cambon in Paris is now undergoing a complete reinvention. The biggest challenge is expressing a large French luxury institution's brand image while giving consistency to the whole place. Light is the interior's common central theme. The lighting designers' goal was to choose lighting that is both discreet and as efficient as possible. The atrium's height and magnificent staircase, its volume, and natural light pose a real challenge. The light had to blend in harmoniously to maintain this beautiful calm and create a pleasant atmosphere. The spotlights' colour temperature in the sleek MOVE IT 25 system was adapted to each of the six floors' heights to achieve balance between natural and artificial light.

ES Tras haber sido la sede de un banco durante casi setenta años y un edificio de oficinas desde finales de la década de los 80, este imponente edificio situado en la Rue Cambon de París se somete ahora a una completa remodelación. El mayor desafío consiste en expresar la imagen corporativa de una gran marca de lujo francesa, dando a la vez coherencia a todo el conjunto. La luz debe ser el hilo conductor en el interior. El objetivo de los diseñadores luminotécnicos era elegir una iluminación que fuera discreta y lo más eficiente posible. El atrio de gran altura con su escalera suntuosa, su volumen y la entrada de luz natural supuso un auténtico desafío. La luz debía integrarse en el conjunto armoniosamente para conservar esa calma cautivadora y crear una atmósfera agradable. La temperatura de color de los focos del sistema de carril electrificado MOVE IT 25 se adaptaron a cada altura de los seis pisos para lograr un equilibrio homogéneo entre la luz natural y la luz artificial.

“Light is something that can add a transcendental quality to the project.”

Johan Sustrac, CEO Distylight

Press Glass Headquarters
Konopiska, PL

Architecture by
Tomasz Konior, Konior Studio

MOVE IT 25 / 45 system
SASSO 60
MINO 40

Distinctive

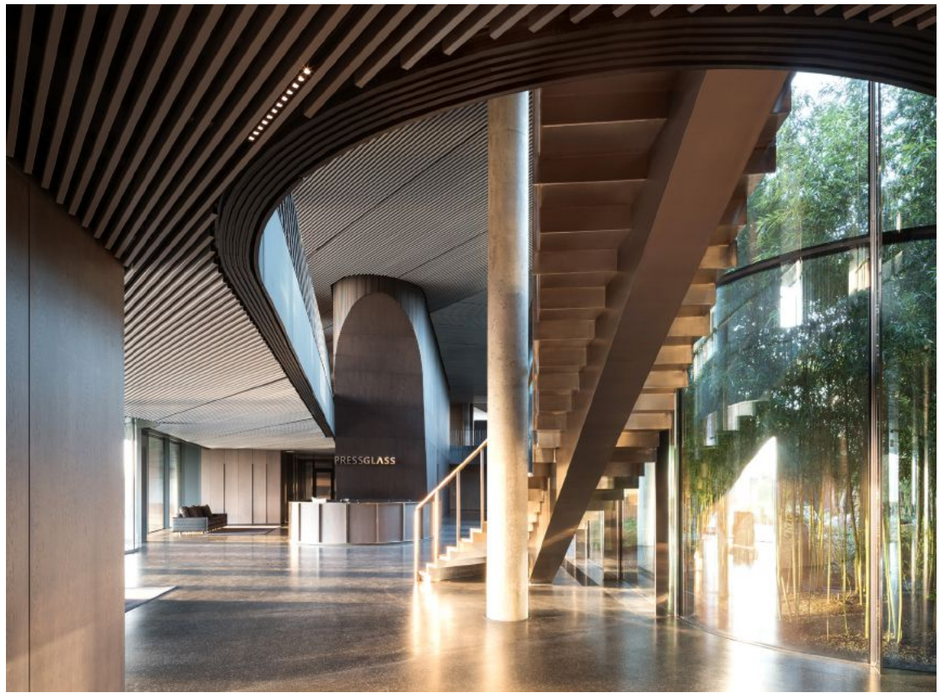
EN The goal for Press Glass headquarters – a leader in the European hybrid window industry – was to create a workplace that is environmentally conscious and benefits in many ways from the beautiful landscape. This idea is reflected in room design, geometry, materials, and lighting. The glass façade running along the outer perimeter of the building, paired with the courtyard façade, floods the interior with natural light and draws the green landscape into the office spaces. The atmosphere resembles a secluded forest cabin, which is associated with tranquillity and a focused mind, stimulating creative thinking. Dark, elegant furnishings and subtle interior lighting bring a warm touch to the social spaces. The MOVE IT system's slender design delivered an exceptionally smooth and seamless lighting implementation into the concept. This subtle and simple aesthetic helps realise the owners' vision of a distinctive building.

ES El objetivo del proyecto de la sede central de Press Glass –una empresa líder europea en el segmento de las ventanas de vidrio, era crear un lugar de trabajo integrado en la naturaleza y que se beneficiara en muchos aspectos del precioso paisaje. Esta idea se refleja en el diseño del espacio, la geometría, los materiales y la iluminación. La fachada de vidrio en el perímetro exterior del edificio, combinada con la fachada del patio, inundan el interior de luz natural y permiten que el verdor del paisaje penetre en las oficinas. La atmósfera se asemeja a la de una cabaña situada en una zona boscosa, lo que produce una sensación de calma y concentración y es capaz de estimular la creatividad. El mobiliario elegante de tonos oscuros y una iluminación interior discreta aportan una nota cálida en las zonas comunes. El esbelto diseño del sistema MOVE IT hizo posible una implementación fluida y completa de la iluminación en el esquema global. Su estética sencilla y sutil contribuyó a poner en práctica la idea original de los propietarios de este único edificio.

Press Glass Headquarters Konopiska

“I cannot imagine this particular design anywhere else. The location was the most demanding factor and, at the same time, the biggest contributor to the concept of the building.”

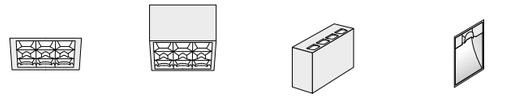
Marcin Piotrowski, Konior Studio



Spotlights Downlights

Spotlights & Downlights

UNICO



44 recessed ceiling wall surface wall recessed

SPIO

NEW **86** recessed

CAVO

96 recessed

SASSO

NEW **108** recessed semi-recessed ceiling ceiling suspended wall surface

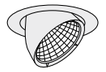
SASSO PRO

168 recessed

MOVE IN

NEW **180** recessed

TWIST



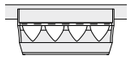
NEW **194** recessed

SPADO

200 recessed

SQUADRO

208 recessed

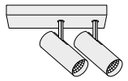


track

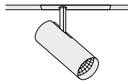
BO

222 semi-recessed

surface

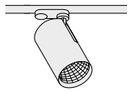


surface



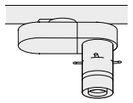
track

VARO



248 track

PABLO



264 track

TULA

NEW **280** suspended

ARY

288 suspended

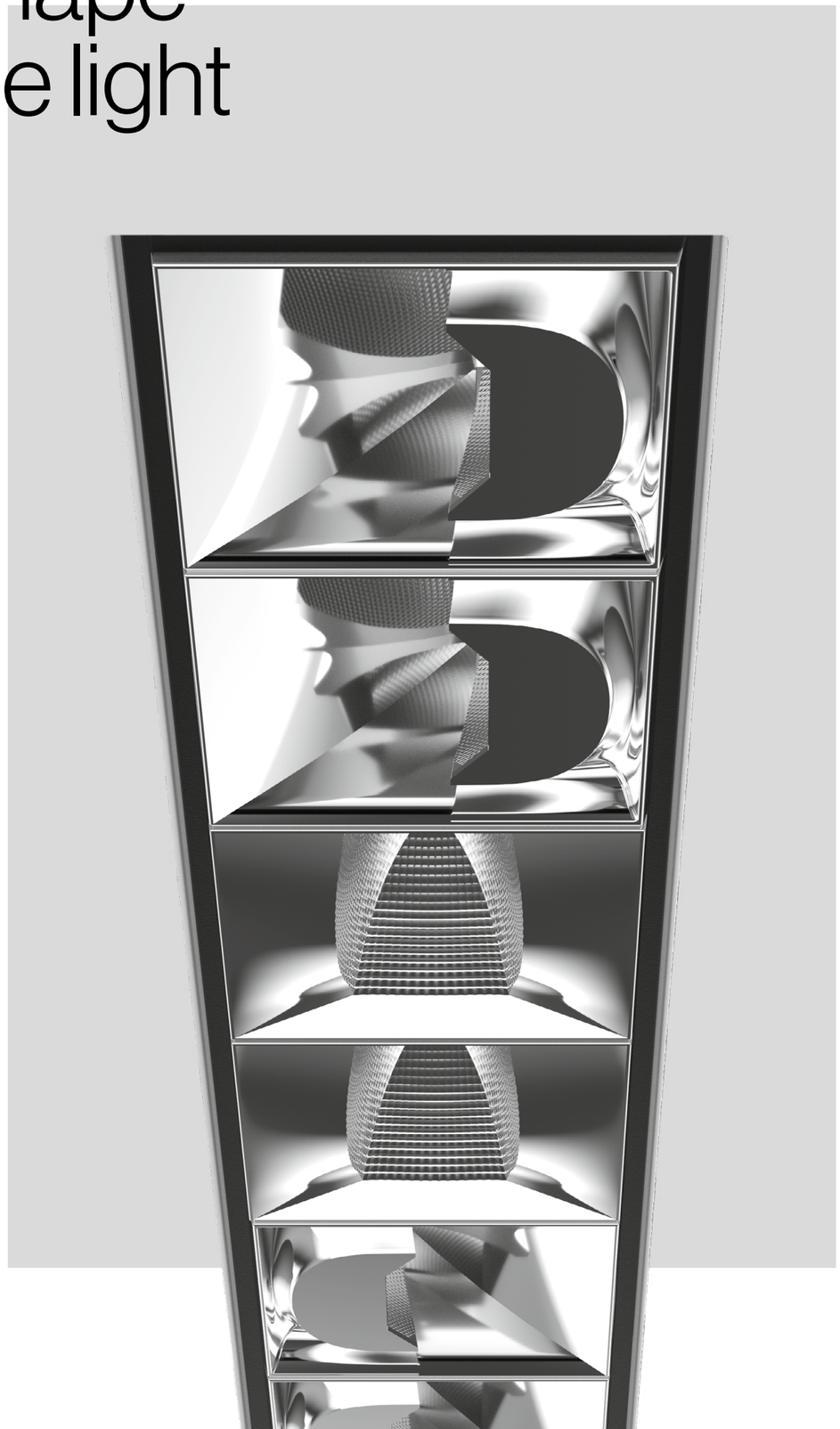
TRACK
3-phase

300 recessed

surface

suspended

Shape the light

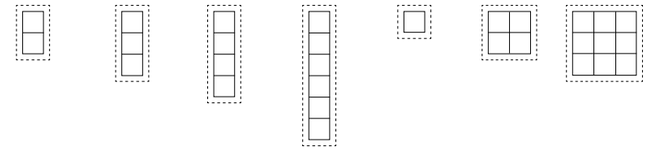


UNICO

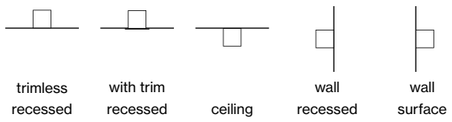
EN With UNICO, XAL crafted a unique product built for flexibility. The luminaire offers a solution for every requirement and need. The luminaire can be shaped from five mounting options, seven shapes, eleven optics, two sensors, four colour temperatures and two control options. The intuitive UNICO configurator helps guide the flexible composition and selection of the different beam characteristics. A single luminaire has never offered this much planning freedom in professional lighting design.

ES Con UNICO, XAL ha creado una luminaria única en materia de flexibilidad. Esta luminaria ofrece una solución perfecta para cualquier requisito y necesidad. El producto puede configurarse de un modo totalmente personalizado a partir de cinco opciones de montaje, siete formas, doce ópticas, cuatro temperaturas de color y dos opciones de control. El configurador UNICO ayuda a obtener la configuración adecuada con flexibilidad y a seleccionar los distintos modos de proyección. La planificación luminotécnica profesional nunca antes había gozado de tanta flexibilidad con una sola luminaria.

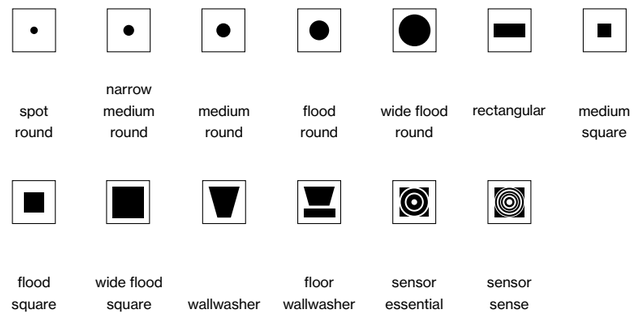
Types



Mountings

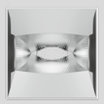
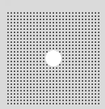
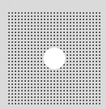
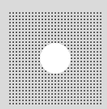
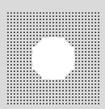
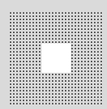
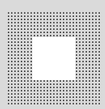
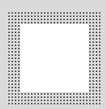
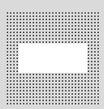
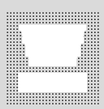
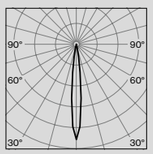
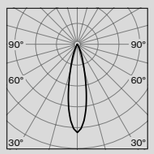
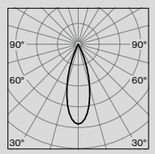
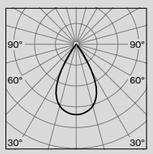
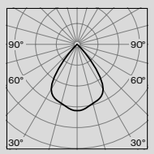
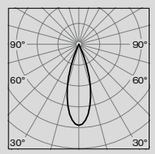
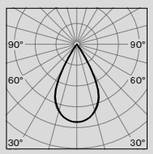
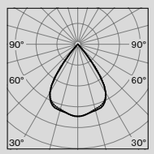
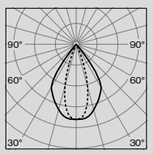
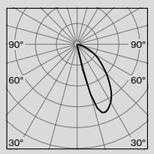
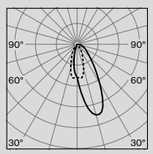


Light optics Sensors



UNICO
recessed

Installation housing	Q1	Q4	Q9	L2	L3	L4	L6
TYPE	with trim (white or black)	with trim (white or black)	with trim (white or black)	with trim (white or black)	with trim (white or black)	with trim (white or black)	with trim (white or black)
CEILING THICKNESS	intermediate 2–25 mm	intermediate 2–25 mm	intermediate 2–25 mm	intermediate 2–25 mm	intermediate 2–25 mm	intermediate 2–25 mm	intermediate 2–25 mm
DIMENSIONfax	63 × 63 mm	101 × 101 mm	138 × 138 mm	101 × 63 mm	138 × 63 mm	176 × 63 mm	251 × 63 mm
CUTOUT DIMENSION	50 × 50 mm	90 × 90 mm	130 × 130 mm	90 × 50 mm	130 × 50 mm	165 × 50 mm	240 × 50 mm
RECESS DEPTH	155 mm	110 mm	90 mm	140 mm	110 mm	100 mm	100 mm
TYPE	trimless	trimless	trimless	trimless	trimless	trimless	trimless
CEILING THICKNESS	plasterboard 12/15/20/25	plasterboard 12/15/20/25	plasterboard 12/15/20/25	plasterboard 12/15/20/25	plasterboard 12/15/20/25	plasterboard 12/15/20/25	plasterboard 12/15/20/25
DIMENSION	50 × 50 mm	85 × 85 mm	125 × 125 mm	88 × 50 mm	125 × 50 mm	163 × 50 mm	238 × 50 mm
CUTOUT DIMENSION	50 × 50 mm	90 × 90 mm	130 × 130 mm	90 × 50 mm	130 × 50 mm	165 × 50 mm	240 × 50 mm
RECESS DEPTH	155 mm	110 mm	90 mm	140 mm	110 mm	100 mm	100 mm

Light optic	spot round	narrow med. round	medium round	flood round	wide flood round	medium square	flood square	wide flood square	rectangular	wallwasher	wallwasher floor
											
											
LUMINOUS EFFICACY	up to 46 lm/W	up to 51 lm/W	up to 78 lm/W	up to 90 lm/W	up to 89 lm/W	up to 77 lm/W	up to 91 lm/W	up to 93 lm/W	up to 79 lm/W	up to 79 lm/W	up to 82 lm/W
LUMINOUS FLUX	179 lm, 190 lm	196 lm, 208 lm	300 lm, 319 lm	345 lm, 367 lm	342 lm, 363 lm	295 lm, 314 lm	351 lm, 373 lm	361 lm, 383 lm	305 lm, 324 lm	305 lm, 324 lm	318 lm, 338 lm
COLOUR TEMPERATURE	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K
COLOUR RENDERING INDEX	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90	CRI ≥ 90
LIGHT DISTRIBUTION											

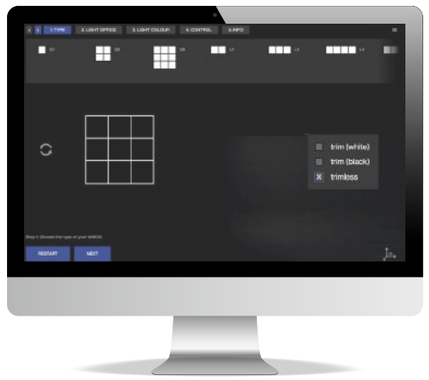
Create your own UNICO

unico.xal.com

EN XAL's UNICO is uniquely flexible. The luminaire offers a solution for every requirement. A UNICO can be flexibly assembled with eleven optics, two sensors and a selection of different light colours as well as Tunable White. XAL delivers this planning freedom with an intuitive online configurator. Solve concrete lighting concepts by creating a bespoke luminaire. unico.xal.com

ES Con UNICO, XAL ha creado una luminaria única en materia de flexibilidad. Una luminaria que ofrece la solución perfecta para cualquier necesidad técnica. Y es que la luminaria UNICO puede configurarse de un modo totalmente personalizado eligiendo entre once ópticas, dos sensores y una selección de temperaturas de color diferentes, incluido Tunable White. XAL ha diseñado y desarrollado un intuitivo configurador online. Resuelva problemas concretos de iluminación con la flexibilidad de configuración proporcionada por una luminaria única: unico.xal.com

1. Define your shape



EN Select your preferred mounting type and then one of the seven shapes.

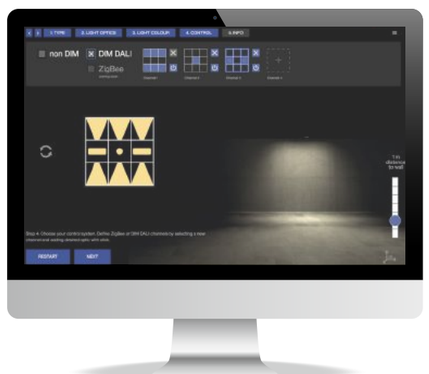
ES Elija el tipo de montaje adecuado y a continuación una de las siete formas disponibles.

2. Choose your light optic and colour

EN Combine the eleven light insets and two sensors. Then select the desired light temperature 2700 K, 3000 K, 4000 K or Tunable White.

ES Combine entre sí los once opticas diferentes y dos sensores, y elija una temperatura de color apropiada de entre 2700 K, 3000 K, 4000 K y Tunable White del modo que mejor se adapte a sus necesidades.

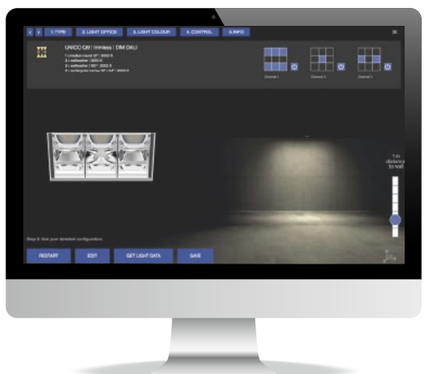
3. Control



EN The configurator helps you set up a maximum of four control channels.

ES El configurador le permite integrar hasta cuatro canales de regulación.

4. Info



EN Get an overview of your configured UNICO. You can download all the specifications as a datasheet.

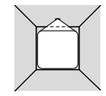
ES Obtenga una visión global de su UNICO ya configurado. También puede descargarse toda la información en una ficha técnica de producto.

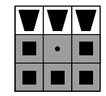
One luminaire – four channels – various light scenes

EN Use the online configurator and address concrete lighting concepts by creating a bespoke luminaire. Assign each optic in a UNICO to one of up to four control channels. Each of the four channels can then be dimmed and controlled separately. Control is via DALI-2. Just one luminaire can create custom lighting scenarios for every application. There has never been more freedom in professional lighting design delivered by a single luminaire.

ES Una sola luminaria le permite crear escenarios luminosos adaptados a cada aplicación. Utilice el configurador online para implementar esquemas de iluminación concretos mediante la configuración flexible de distintas ópticas. Es posible asignar hasta cuatro canales de control en cada luminaria UNICO, pudiendo atenuar y manejar cada uno de ellos por separado. El control se efectúa a través de DALI-2. El diseño de iluminación profesional nunca antes había gozado de tanta libertad con una sola luminaria.

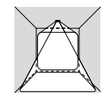
Light scene 1
wall

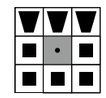




3 × wallwasher

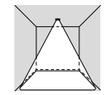
Light scene 2
wall + floor

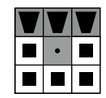




3 × wallwasher
5 × flood square

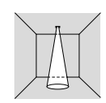
Light scene 3
floor

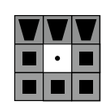




5 × flood square

Light scene 4
spots





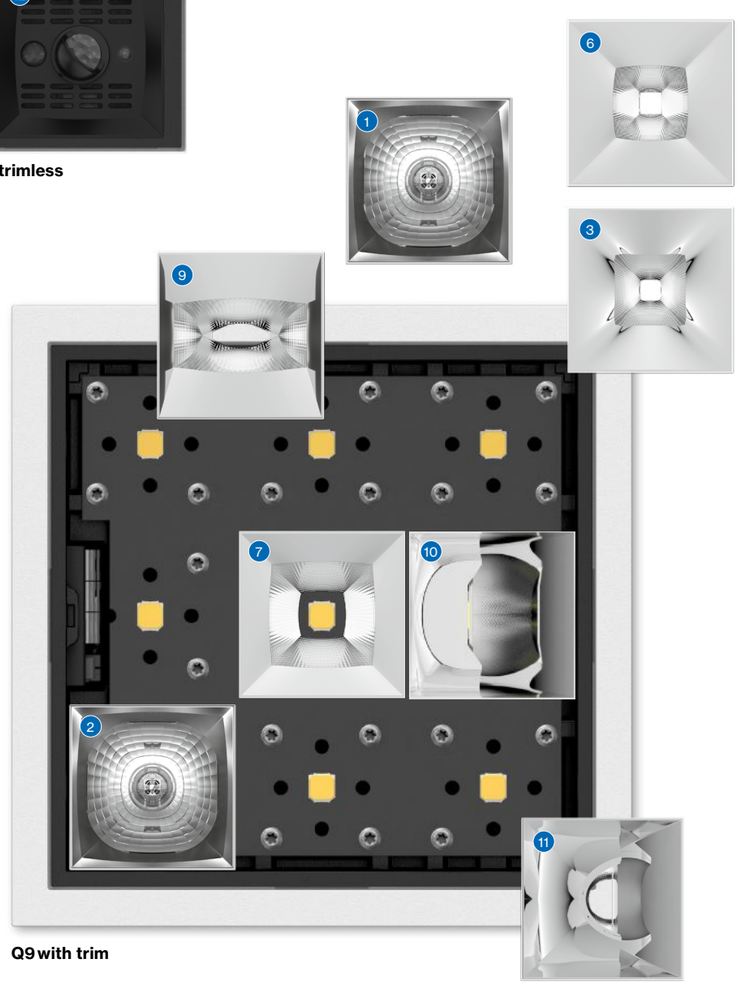
1 × spot round

92.2 quadrillion possibilities

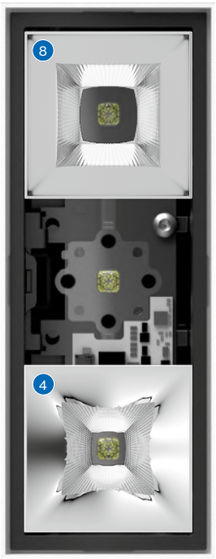
EN The luminaire can be customised from five mounting options, seven shapes, eleven light insets, two sensors, four colour temperatures, and three control options. The downlight optics for generating round or angular light projections are available with different beam characteristics. There are also rectangular downlights and wallwasher optics for wall or wall / floor lighting. Highly glare-free versions (UGR ≤ 19) are ideal for use at computer workstations. Dedicated sensors help adjust the lighting according to daylight and room activity. In addition, the reflectors are available in the colours chrome, black, and gold. Values such as temperature, air quality, and noise levels can be recorded. This delivers valuable knowledge about the conditions of your premises.

ES La luminaria puede configurarse de un modo totalmente personalizado a partir de cinco opciones de montaje, siete formas, once ópticas, dos sensores, tres temperaturas de color y tres opciones de control. Las ópticas de downlight para la generación de proyecciones luminosas redondeadas o rectangulares están disponibles en tres modos de proyección distintos. Además, hay disponibles downlights rectangulares y ópticas de bañador de pared para la iluminación de pared o pared/suelo. Las variantes dotadas de alta prevención del deslumbramiento (UGR ≤ 19) son perfectas para puestos de trabajo. Además, los reflectores están disponibles en los colores cromo, negro y dorado. Unos sensores especiales permiten adaptar la iluminación a la luz natural y a la actividad concreta de la sala, y además registrar valores tales como la temperatura, la calidad del aire y el nivel de ruido. Esto le proporcionará información valiosa sobre el estado de sus instalaciones.

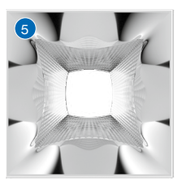
Q1 trimless



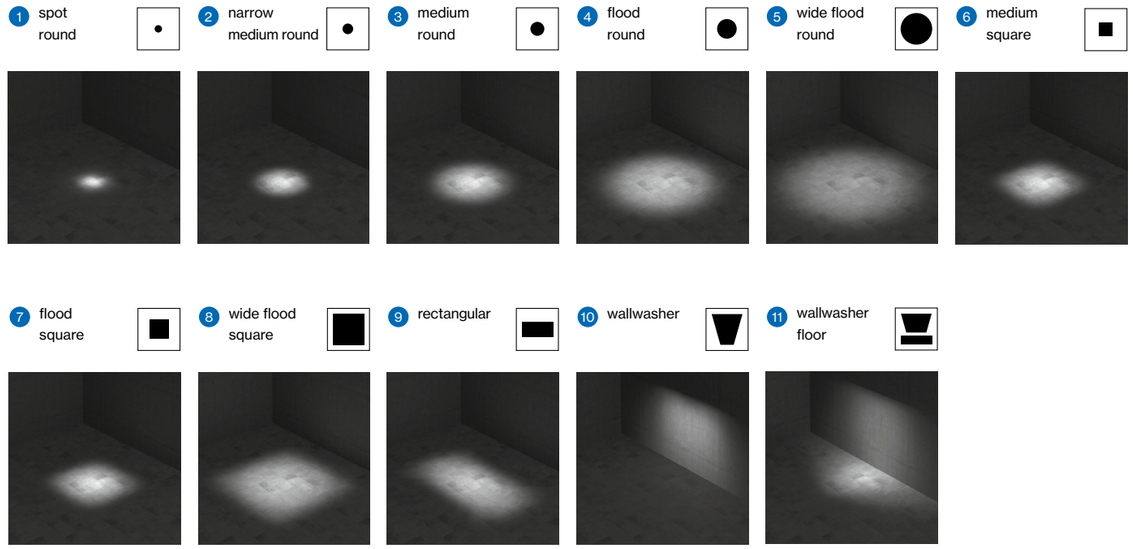
Q9 with trim



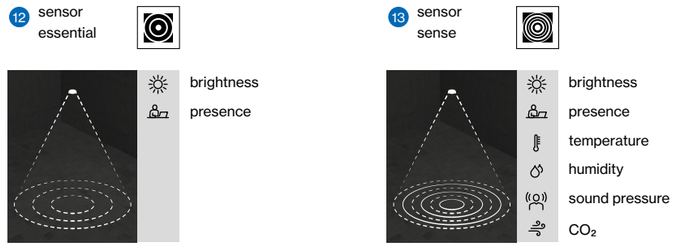
L3 trimless
tunable white



11 light optics and 2 sensors



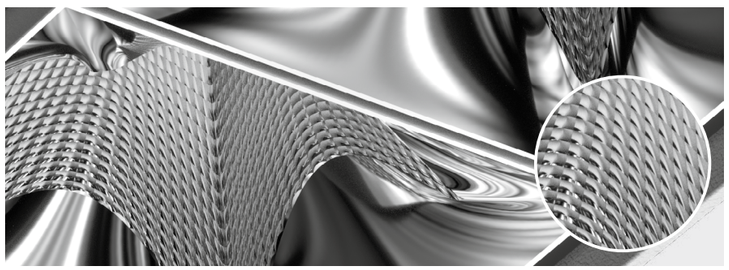
Sensors

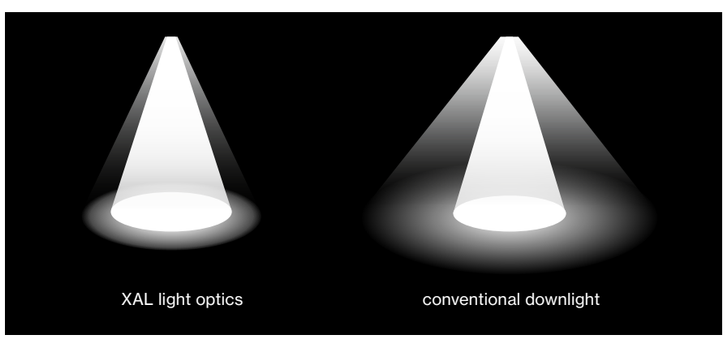


Precision cut-off

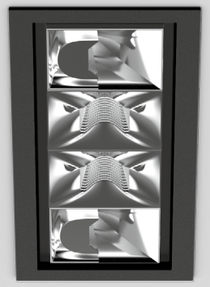
EN XAL Light optics deliver the latest development in the field of micro-faceted reflector technology. Architects and lighting planners have entirely new design options thanks to clearly defined contrasts and maximised efficiency. Compared with conventional optics, XAL Light optics offer, with the same beam angle, a clearly defined light cone break with minimal stray light at the edges.

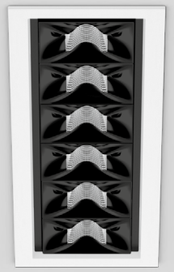
ES Con XAL Light Optics, XAL ofrece el desarrollo más novedoso en el área de la tecnología de reflectores microfacetados. Un desarrollo que ofrece a arquitectos y a diseñadores de iluminación unos contrastes claramente definidos, unidos a la máxima eficiencia y a unas posibilidades de configuración totalmente nuevas. Comparadas con las ópticas convencionales, las variantes de XAL Light Optics proporcionan un haz luminoso claramente delimitado con menor cantidad de luz dispersa en el área periférica manteniendo el mismo ángulo de apertura.





back





LIGHTING DESIGN AWARDS 2019 WINNER

iF DESIGN AWARD 2019

UNICO linear

recessed

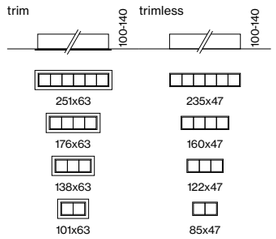
EN Rectangular recessed multi-downlight made of die-cast aluminium; equipped with two (L2) / three (L3) / four (L4) / six (L6) individually selectable or pre-specified, customised light elements; installation without tools in mounting set with ball catch system; easy electrical installation by means of reverse polarity protected plug-in connections; suitable for ceiling thickness of 2-25 mm; surface powder coated; installation possible in different housings; high-quality reflector with micro-faceted, aluminum-vaporised surface; precise radiation characteristic with different symmetrical light distributions; or with asymmetric light distribution; energy-efficient high power LEDs with very good colour rendering; clank-free

ES Downlight múltiple empotrable rectangular de aluminio; con dos (L2) / tres (L3) / cuatro (L4) / seis (L6) ópticas a elegir o fijas/específicas para la aplicación; instalación sin herramientas mediante kit de montaje con sistema de inserción de bola; montaje eléctrico sencillo con conexión enchufable protegida contra polarización inversa; para espesores de techo de 2-25 mm; superficie con recubrimiento de pintura en polvo; posibilidad de instalar distintas carcasas; reflector de alta calidad con superficie microfacetada de aluminio vaporizado; proyección precisa con varias distribuciones de luz simétricas; o con distribución de luz asimétrica; LEDs de alta eficiencia con muy buena reproducción cromática; sin reverberación

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
L2 up to 98 lm/W
L3 up to 99 lm/W
L4 up to 112 lm/W
L6 up to 112 lm/W
L90 @ 50 000 h
non DIM, DALI-2

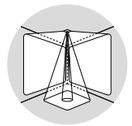
Types



Colours

Light optics

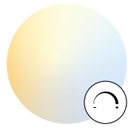
DiiA® standards
251, 252, 253



one luminaire multiple scenes

plug / socket connector

black & gold reflector



tunable white 2700 – 5000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE
tunable white 2700 – 5000 K
DALI-2 DT8

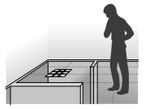
LIGHT OPTIC COLOUR
gold reflector

MOUNTING SET
acoustic soft ceilings

Product configurator

Create your own UNICO PRO
unico.xal.com

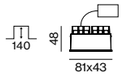
Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO L2 basic recessed

UGR ≤ 10 | cd/m² ≤ 1500 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
7.9 W	up to 723 lm	090-7L2⠿⇕▲0■21

choose one light optic ▲ from the options on the left depending on your room needs

WALL
2x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
7.9 W	611 lm	090-7L2⠿⇕A0022

CORRIDOR
2x rectangular

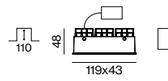
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
7.9 W	610 lm	090-7L2⠿⇕R0■21

WALL + FLOOR
2x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
7.9 W	638 lm	090-7L2⠿⇕W0■22

UNICO L3 basic recessed

UGR ≤ 10 | cd/m² ≤ 1500 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



FLOOR

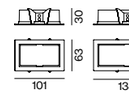
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
11.2 W	up to 1030 lm	090-7L3⠿⇕▲0■21

choose one light optic ▲ from the options on the left depending on your room needs

WALL
3x wallwasher

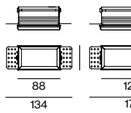
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
11.2 W	872 lm	090-7L3⠿⇕A0021

Accessories



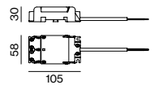
MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm

TYPE	L-W-H (mm)	CUTOUT (mm)	ORDER CODE
L2	101-63-30	90-50	090-7L2020
L3	138-63-30	130-50	090-7L3020



TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm

TYPE	L-W-H (mm)	CUTOUT (mm)	ORDER CODE
L2	88-50-47	90-50	090-7L20100
L3	125-50-47	130-50	090-7L30100



THROUGH WIRING CONNECTION BOX

TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105-58-30	005-2531110
DALI cable ø 4 – 12 mm	105-58-30	005-2551110

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

back

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

DALI-2 DT8

LIGHT OPTIC COLOUR

gold reflector

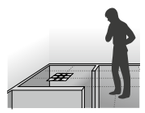
MOUNTING SET

acoustic soft ceilings

Product configurator

Create your own UNICO PRO
unico.xal.com

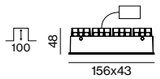
Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO L4 basic recessed

UGR ≤ 10 | cd/m² ≤ 1500 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	up to 1450 lm	090-7L4 ⁝⁝ ⇕ ▲ 0 ■ 21

choose one light optic ▲ from the options on the left depending on your room needs

WALL
4x wallwasher

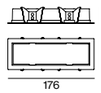
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1220 lm	090-7L4 ⁝⁝ ⇕ A0021

WALL + FLOOR
4x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1280 lm	090-7L4 ⁝⁝ ⇕ W0 ■ 22

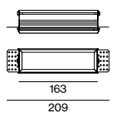
Accessories

MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm



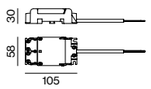
TYPE	L-W-H (mm)	CUTOUT (mm)	ORDER CODE
L4	176-63-30	165-50	090-7L4020 ◪

TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm



TYPE	L-W-H (mm)	CUTOUT (mm)	ORDER CODE
L4	163-50-47	165-50	090-7L40100

THROUGH WIRING CONNECTION BOX



TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4–12 mm	105-58-30	005-2531110
DALI cable ø 4–12 mm	105-58-30	005-2551110

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

DALI-2 DT8

LIGHT OPTIC COLOUR

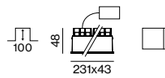
gold reflector

MOUNTING SET

acoustic soft ceilings

UNICO L6 basic recessed

UGR ≤ 10 | cd/m² ≤ 1500 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
19.8 W	up to 2060 lm	090-7L6 ⁝⁝ ⇕ ▲ 0 ■ 21

choose one light optic ▲ from the options on the left depending on your room needs

WALL
6x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
19.8 W	1740 lm	090-7L6 ⁝⁝ ⇕ A0021

CORRIDOR
6x rectangular

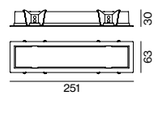
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
19.8 W	1740 lm	090-7L6 ⁝⁝ ⇕ R0 ■ 21

WALL + FLOOR
6x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
19.8 W	1820 lm	090-7L6 ⁝⁝ ⇕ W0 ■ 21

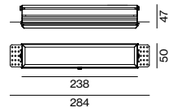
Accessories

MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm



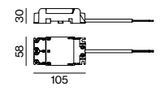
TYPE	L-W-H (mm)	CUTOUT (mm)	ORDER CODE
L6	251-63-30	240-50	090-7L6020 ◪

TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm



TYPE	L-W-H (mm)	CUTOUT (mm)	ORDER CODE
L6	238-50-47	240-50	090-7L60100

THROUGH WIRING CONNECTION BOX



TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4–12 mm	105-58-30	005-2531110
DALI cable ø 4–12 mm	105-58-30	005-2551110

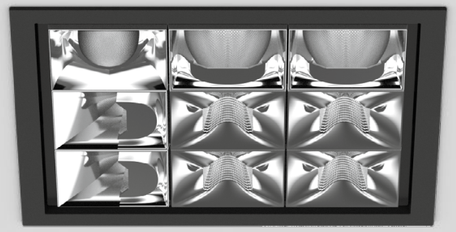
LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

West Tower
Manchester, UK – by SimpsonHaugh with
lighting design by Troup, Bywaters & Anders

Grundschule St.Martin in Gsies,
South Tyrol, IT –
by tasserball architekten

Penthouse Wörthersee
Carinthia, AT – by ROOMS GmbH

back



LIGHTING DESIGN AWARDS 2019 WINNER

iF DESIGN AWARD 2019

UNICO square

recessed

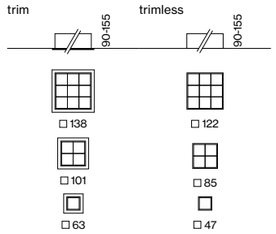
EN Square recessed multi-downlight made of die-cast aluminium; equipped with one (Q1) / four (Q4) / nine (Q9) individually selectable or pre-specified, customised light element(s); or with a sensor; installation without tools in mounting set with ball catch system; easy electrical installation by means of reverse polarity protected plug-in connections; suitable for ceiling thickness of 2-25 mm; surface powder coated; installation possible in different housings; high-quality reflector with micro-faceted, aluminum-vaporised surface; precise radiation characteristic with different symmetrical light distributions; or with asymmetric light distribution; energy-efficient high power LEDs with very good colour rendering; clank-free

ES Downlight múltiple empotrable cuadrado de aluminio; con una (Q1) / cuatro (Q4) / nueve (Q9) óptica(s) a elegir o fijas/específicas para la aplicación o con sensor (Q1); instalación sin herramientas mediante kit de montaje con sistema de inserción; montaje eléctrico sencillo con conexión enchufable protegida contra polarización inversa; para espesores de techo de 2-25 mm; superficie con recubrimiento de pintura en polvo; posibilidad de instalar distintas carcasas; reflector de alta calidad con superficie microfacetada de aluminio vaporizado; proyección precisa con varias distribuciones de luz simétricas; o con distribución de luz asimétrica; LEDs de alta eficiencia con muy buena reproducción cromática; sin reverberación

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
Q1 up to 85 lm/W
Q4 up to 112 lm/W
Q9 up to 111 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types

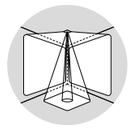


Colours

Light optics / sensors

DiiA® standards 251, 252, 253

sensor version available



one luminaire multiple scenes

plug / socket connector

black & gold reflector

tunable white 2700–5000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE
tunable white 2700–5000 K
DALI-2 DT8

LIGHT OPTIC COLOUR
gold reflector

MOUNTING SET
acoustic soft ceilings

Product configurator

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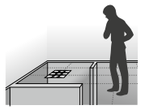
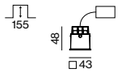
unico.xal.com

Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO Q1 basic recessed



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6 W	up to 490 lm	090-7Q1 ⁝⁝ ⇕ ▲ 0 ■ 21

choose one light optic ▲ from the options on the left depending on your room needs

WALL
1x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6 W	up to 415 lm	090-7Q1 ⁝⁝ ⇕ A0021

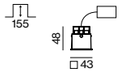
CORRIDOR
1x rectangular

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6 W	up to 414 lm	090-7Q1 ⁝⁝ ⇕ R0 ■ 21

WALL + FLOOR
1x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6 W	up to 432 lm	090-7Q1 ⁝⁝ ⇕ W0 ■ 21

UNICO Q1 sensor recessed



ESSENTIAL SENSOR

TYPE	ORDER CODE
brightness & presence	090-7Q10000

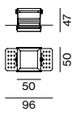
SENSE SENSOR

TYPE	ORDER CODE
brightness, presence, temperature, sound pressure, humidity, CO_2	090-7Q10010

Accessories

MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm

TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
Q1	63·63·30	50·50	090-7Q1020



TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm

TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
Q1	50·50·47	50·50	090-7Q10100

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

back

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

DALI-2 DT8

LIGHT OPTIC COLOUR

gold reflector

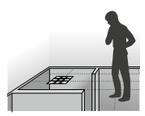
MOUNTING SET

acoustic soft ceilings

Product configurator

Create your own UNICO PRO
unico.xal.com

Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO Q4 basic recessed

UGR ≤ 10 | cd/m² ≤ 1500 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT

FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	up to 1450 lm	090-7Q4 ⁘ ⇕ ▲ 0 ■ 21

choose one light optic ▲ from the options on the left depending on your room needs

WALL

4x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1220 lm	090-7Q4 ⁘ ⇕ A0021

CORRIDOR

4x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1220 lm	090-7Q4 ⁘ ⇕ A0022

WALL + FLOOR

2x wallwasher + 2x medium square

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1200 lm	090-7Q4 ⁘ ⇕ 90021

CORNER + FLOOR

2x wallwasher + 2x medium square

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1200 lm	090-7Q4 ⁘ ⇕ 90022

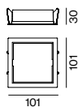
WALL + FLOOR

4x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
13.9 W	1280 lm	090-7Q4 ⁘ ⇕ W0 ■ 21

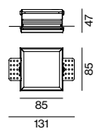
Accessories

MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm



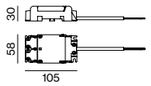
TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
Q4	101·101·30	90·90	090-7Q4020

TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm



TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
Q4	85·85·47	90·90	090-7Q40100

THROUGH WIRING CONNECTION BOX



TYPE	L·W·H (mm)	ORDER CODE
non DIM cable ø 4–12 mm	105·58·30	005-2531110
DALI cable ø 4–12 mm	105·58·30	005-2551110

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

DALI-2 DT8

LIGHT OPTIC COLOUR

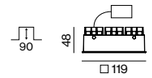
gold reflector

MOUNTING SET

acoustic soft ceilings

UNICO Q9 basic recessed

UGR ≤ 10 | cd/m² ≤ 1500 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
32 W	up to 3310 lm	090-7Q9 ⁘ ⇕ ▲ 0 ■ 21

choose one light optic ▲ from the options on the left depending on your room needs

WALL

9x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
32 W	2800 lm	090-7Q9 ⁘ ⇕ A0021

WALL + FLOOR

3x wallwasher + 6x flood square

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
32 W	3080 lm	090-7Q9 ⁘ ⇕ 90021

WALL + CORRIDOR

6x wallwasher + 3x rectangular

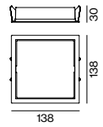
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
32 W	2790 lm	090-7Q9 ⁘ ⇕ 90022

WALL + FLOOR

9x wallwasher floor

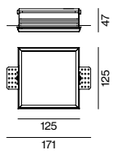
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
32 W	2920 lm	090-7Q9 ⁘ ⇕ W0 ■ 21

Accessories



MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm

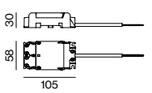
TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
Q9	138·138·30	130·130	090-7Q9020



TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm

TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
Q9	125·125·47	130·130	090-7Q90100

THROUGH WIRING CONNECTION BOX

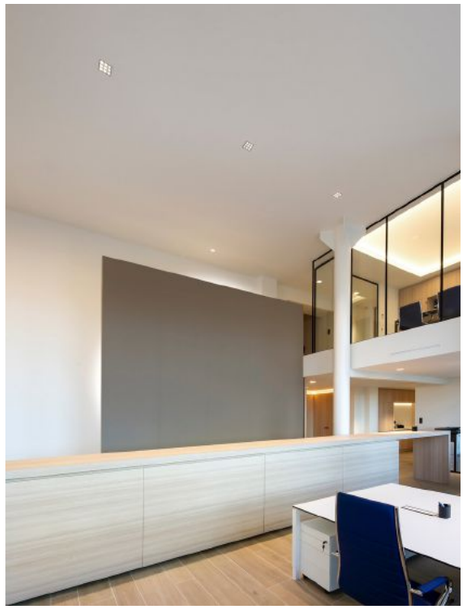


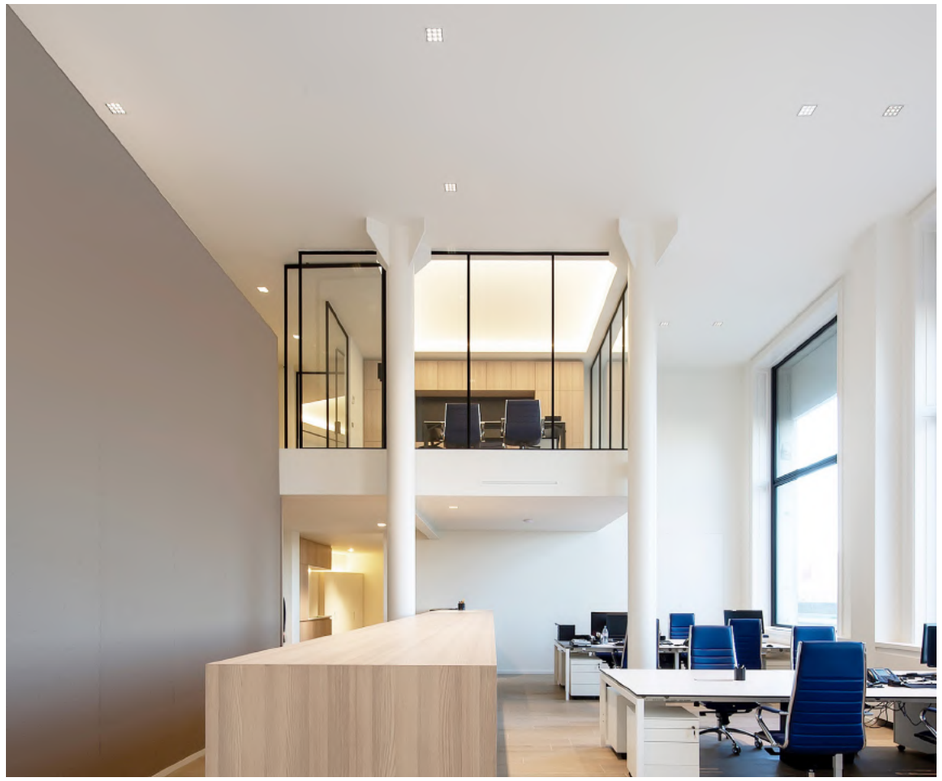
TYPE	L·W·H (mm)	ORDER CODE
non DIM cable ø 4–12 mm	105·58·30	005-2531110
DALI cable ø 4–12 mm	105·58·30	005-2551110

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

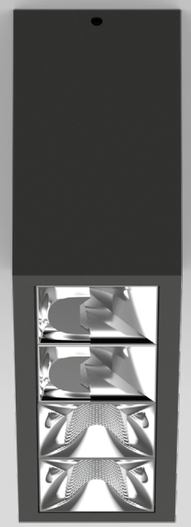
Aertssen Group Beveren, BE –
by Mertens Architecten with
lighting design by Eef Debeuf

Fortuna Financial Group
Antwerp, BE – by Kris Rymenants Architectenbureau





back



reddot winner 2020

UNICO linear

ceiling

EN Rectangular surface mounted multi-downlight made of aluminium; equipped with two (L2) / three (L3) / four (L4) / six (L6) individually selectable or pre-specified, customised light elements; luminaire housing can be attached to mounting plate without tools by interlock; converter integrated into luminaire housing; surface powder coated; high-quality reflector with micro-faceted, aluminum-vaporised surface; precise radiation characteristic with different symmetrical light distributions; or with asymmetric light distribution; energy-efficient high power LEDs with very good colour rendering; clank-free

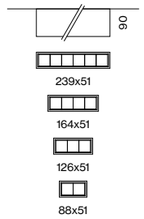
ES Downlight múltiple de superficie cuadrado de aluminio; con dos (L2) / tres (L3) / cuatro (L4) / seis (L6) ópticas a elegir o fijas/específicas para la aplicación; cuerpo de luminaria enclavable en placa de montaje sin necesidad de herramienta; convertidor integrado en cuerpo de luminaria; superficie con recubrimiento de pintura en polvo; reflector de alta calidad con superficie microfacetada de aluminio vaporizado; proyección precisa con varias distribuciones de luz simétricas; o con distribución de luz asimétrica; LEDs de alta eficiencia con muy buena reproducción cromática; sin reverberación

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
L2 up to 95 lm/W
L3 up to 97 lm/W
L4 up to 103 lm/W
L6 up to 103 lm/W
L90 @ 50 000 h
non DIM, DALI-2

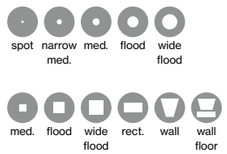
Types

linear



Colours

Light optics



one luminaire
multiple scenes

black & gold reflector

tunable white 2700 – 5000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● white aluminium RAL 9006	G
● jet black RAL 9005	B
● gold dust RAL 260-M	9

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700 – 5000 K

DALI-2 DT8

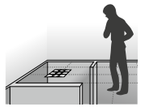
LIGHT OPTIC COLOUR

gold reflector

Product configurator

Create your own UNICO PRO
unico.xal.com

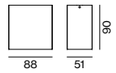
Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO L2 basic ceiling

UGR ≤ 10 | cd/m² ≤ 3000 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
12.6 W	up to 1150 lm	090-1L2 ▲ 01

choose one light optic ▲ from the options on the left depending on your room needs

CORRIDOR
2x rectangular

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
12.6 W	971 lm	090-1L2 R 01

WALL
2x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
12.6 W	973 lm	090-1L2 A 001

WALL + FLOOR
2x wallwasher floor

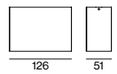
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
12.6 W	947 lm	090-1L2 W 01

WALL + FLOOR
2x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
12.6 W	1020 lm	090-1L2 W 02

UNICO L3 basic ceiling

UGR ≤ 10 | cd/m² ≤ 3000 | CRI ≥ 90 | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
18.9 W	up to 1720 lm	090-1L3 ▲ 01

choose one light optic ▲ from the options on the left depending on your room needs

WALL
3x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
18.9 W	1460 lm	090-1L3 A 001

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

back

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● white aluminium RAL 9006	G
● jet black RAL 9005	B
● gold dust RAL 260-M	9

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

DALI-2 DT8

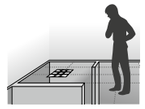
LIGHT OPTIC COLOUR

gold reflector

Product configurator

Create your own UNICO PRO
unico.xal.com

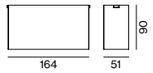
Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO L4 basic ceiling

UGR ≤10 | cd/m² ≤3000 | CRI ≥90 | DALI 1 ADDR. | 220-240V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	up to 1920 lm	090-1L4▲◪■01

choose one light optic ▲ from the options on the left depending on your room needs

WALL
4x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	1620 lm	090-1L4A◪001

FLOOR / WALL + FLOOR
4x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	1690 lm	090-1L4W◪■01

WALL + FLOOR
4x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	1690 lm	090-1L4W◪■02

UNICO L6 basic ceiling

UGR ≤10 | cd/m² ≤3000 | CRI ≥90 | 220-240V | X-PERT

FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
28.6 W	up to 2790 lm	090-1L6▲◪■01

choose one light optic ▲ from the options on the left depending on your room needs

CORRIDOR
6x rectangular

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
28.6 W	2350 lm	090-1L6R◪■01

WALL
6x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
28.6 W	2360 lm	090-1L6A◪001

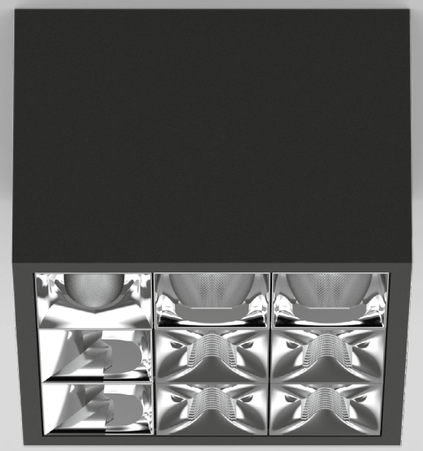
WALL + FLOOR
6x wallwasher floor

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
28.6 W	2460 lm	090-1L6W◪■01

LUMINOUS FLUX value calculated for 3000 K, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

Babylon
Den Haag, NL – by Studio Linse

back



reddot winner 2020

UNICO square

ceiling

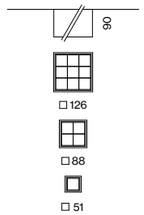
EN Square surface mounted multi-downlight made of aluminium; equipped with one (Q1) / four (Q4) / nine (Q9) individually selectable or pre-specified, customised light element(s); luminaire housing can be attached to mounting plate without tools by interlock; converter integrated into luminaire housing; surface powder coated; high-quality reflector with micro-faceted, aluminum-vaporised surface; precise radiation characteristic with different symmetrical light distributions; or with asymmetric light distribution; energy-efficient high power LEDs with very good colour rendering; clank-free

ES Downlight múltiple de superficie cuadrado de aluminio; con una (Q1) / cuatro (Q4) / nueve (Q9) ópticas a elegir o fijas/específicas para la aplicación; cuerpo de luminaria enclavable en placa de montaje sin necesidad de herramienta; convertidor integrado en cuerpo de luminaria; superficie con recubrimiento de pintura en polvo; reflector de alta calidad con superficie microfacetada de aluminio vaporizado; proyección precisa con varias distribuciones de luz simétricas; o con distribución de luz asimétrica; LEDs de alta eficiencia con muy buena reproducción cromática; sin reverberación

Quickinfo

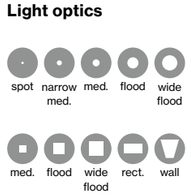
2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
Q1 up to 95 lm/W
Q4 up to 103 lm/W
Q9 up to 105 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types



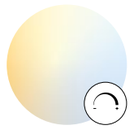
Colours

Light optics



one luminaire multiple scenes

black & gold reflector



tunable white 2700–5000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

spot round (UGR ≤ 10)	K
narrow medium round (UGR ≤ 10)	N
medium round (UGR ≤ 10)	B
medium square (UGR ≤ 10)	E
flood round (UGR ≤ 16)	C
flood square (UGR ≤ 19)	F
wide flood round	D
wide flood square	G

MATERIAL COLOUR

○ traffic white RAL 9016	W
● white aluminium RAL 9006	G
● jet black RAL 9005	B
● gold dust RAL 260-M	9

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

DALI-2 DT8

LIGHT OPTIC COLOUR

gold reflector

Product configurator

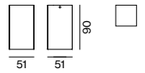
Create your own UNICO PRO
unico.xal.com

Planning information

The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

UNICO Q1 basic ceiling

UGR ≤ 10 | cd/m² ≤ 3000 | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT



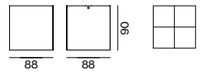
FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6.5 W	up to 575 lm	090-1Q1⁝⁝1▲◪■01

choose one light optic ▲ from the options on the left depending on your room needs

UNICO Q4 basic ceiling

UGR ≤ 10 | cd/m² ≤ 3000 | CRI ≥ 90 | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	up to 1920 lm	090-1Q4⁝⁝▲◪■01

choose one light optic ▲ from the options on the left depending on your room needs

WALL
4x wallwasher

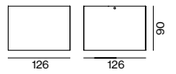
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	1620 lm	090-1Q4⁝⁝A◪001

CORNER + FLOOR
2x wallwasher floor + 2x medium square

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.4 W	1630 lm	090-1Q4⁝⁝9◪■01

UNICO Q9 basic ceiling

UGR ≤ 10 | cd/m² ≤ 3000 | CRI ≥ 90 | 220-240 V | X-PERT



FLOOR

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
36 W	up to 3550 lm	090-1Q9⁝⁝▲◪■01

choose one light optic ▲ from the options on the left depending on your room needs

WALL
9x wallwasher

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
36 W	3000 lm	090-1Q9⁝⁝A◪001

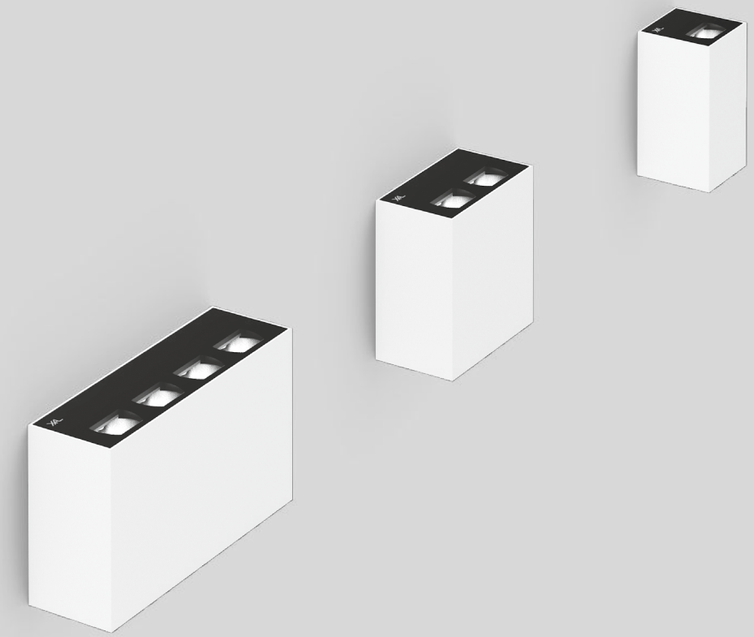
WALL + CORRIDOR
6x wallwasher floor + 3x rectangular

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
36 W	3090 lm	090-1Q9⁝⁝9◪■01

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

Granitlab Coworking
St. Martin im Mühlkreis, AT –
by GHT-Plan GmbH with lighting design
by GHT-Plan GmbH, AREA C.I. Design GmbH

back



UNICO

wall surface

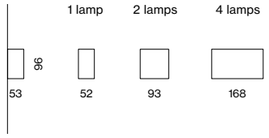
EN Rectangular wall surface mounted multi-uplight made of aluminium; equipped with one light inset (1 lamp) / two (2 lamps) / four (4 lamps) light insets; luminaire housing can be attached to mounting plate without tools by interlock; converter integrated into luminaire housing; surface powder coated; high-quality reflector with micro-faceted, aluminum-vaporised surface; homogeneous wall or ceiling illumination through uniform light distribution; energy-efficient high power LEDs with very good colour rendering; luminaire for through wiring

ES Uplight múltiple de superficie rectangular de aluminio; con uno (1 LAMP) / dos (2 LAMPS) / cuatro (4 LAMPS) insertos lumin.; cuerpo de luminaria enclavable en placa de montaje sin necesidad de herramienta; convertidor integrado en cuerpo de luminaria; superficie con recubrimiento de pintura en polvo; reflector de alta calidad con superficie microfacetada de aluminio vaporizado; iluminación homogénea de pared o techo mediante distribución uniforme de la luz; LEDs de alta eficiencia con muy buena reproducción cromática; luminaria para conexionado adicional

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 49 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types



Colours

Light distribution

ceiling washer

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

traffic white RAL 9016	W
white aluminium RAL 9006	G
jet black RAL 9005	B

Options on request

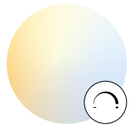
COLOUR TEMPERATURE

tunable white 2700 – 5000 K

only available for 2 lamps and 4 lamps
DALI-2 DT8

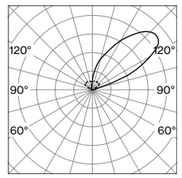
homogeneous ceiling illumination

safety glass for dust protection



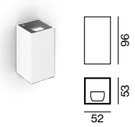
tunable white 2700 – 5000 K

Light distribution



microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

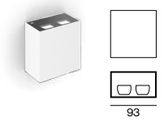


UNICO wall surface

CRI ≥90 | 220-240V | X-PERT

1 LAMP

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
5.9 W	240 lm	090-0L1 1T 001



CRI ≥90 | DALI 1ADDR | 220-240V | X-PERT

2 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
17.4 W	740 lm	090-0L2 T 001

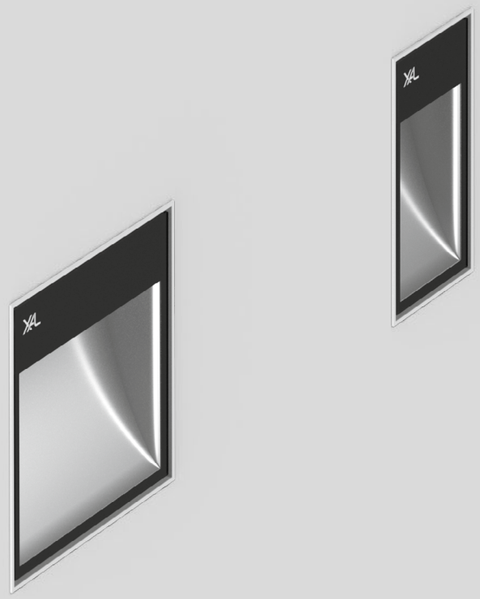
CRI ≥90 | DALI 1ADDR | 220-240V | X-PERT

4 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
30.0 W	1380 lm	090-0L4 T 001

Office
Visualisation

back



UNICO

wall recessed

EN Recessed wall luminaire in aluminium; installation without tools in mounting set (trimless or with trim) with ball catch system; installation possible in different housings; surface powder coated; incl. external converter; high-quality reflector with micro-faceted, aluminum-vaporised surface; different asymmetrical light distributions; installation optionally for floor or ceiling illumination; energy-efficient high power LEDs with very good colour rendering

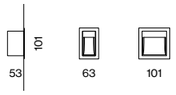
ES Lámpara de pared empotr. aluminio; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; posibilidad de instalar distintas carcasas; superficie con recubrimiento de pintura en polvo; con convertidor externo; reflector de alta calidad con superficie de múltipes facetas revestida con aluminio por vaporización; diferentes distribuciones de luz asimétrica; montaje para iluminación de suelo o de techo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 53 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types

trim



trimless

Colours

Light distribution

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

LIGHT OPTIC

wide floor

MATERIAL COLOUR

○ traffic white RAL 9016	W
● jet black RAL 9005	B

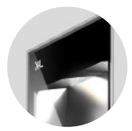
Options on request

COLOUR TEMPERATURE

tunable white 2700–5000 K

only available for 2 lamps | DALI-2 DT8

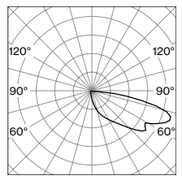
homogeneous
floor illumination



safety glass for
dust protection

tunable white
2700–5000 K

Light distribution



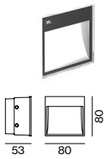
microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for
3000 K, CRI ≥ 90, colour white, reflector chrome
2700 K -6 %, 4000 K +7 %

UNICO wall recessed

1 LAMP

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
7.3 W	340 lm	090-6L1::UB001

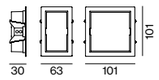


2 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
12.5 W	610 lm	090-6L2::UB001

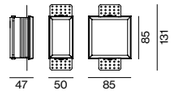
Accessories

MOUNTING SET WITH TRIM
for intermediate ceilings 2–25 mm



TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
1 lamp	101·63·20	90·50	090-7L2020
2 lamps	101·101·30	90·50	090-7Q4020

TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/20/25 mm



TYPE	L·W·H (mm)	CUTOUT (mm)	ORDER CODE
1 lamp	88·50·47	90·50	090-7L20100
2 lamps	85·85·47	90·50	090-7Q40100

PRIMED CONCRETE MOUNTING SET

TYPE	L·W·H (mm)	ORDER CODE
primed concrete ceilings	240·400·130	052-1914320

order mounting set separately

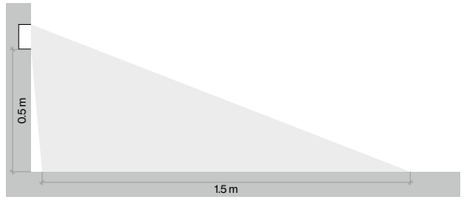
EXPOSED CONCRETE MOUNTING SET

TYPE	ORDER CODE
1 lamp exposed concrete	090-6L10500
2 lamps exposed concrete	090-6L20600

order mounting set separately

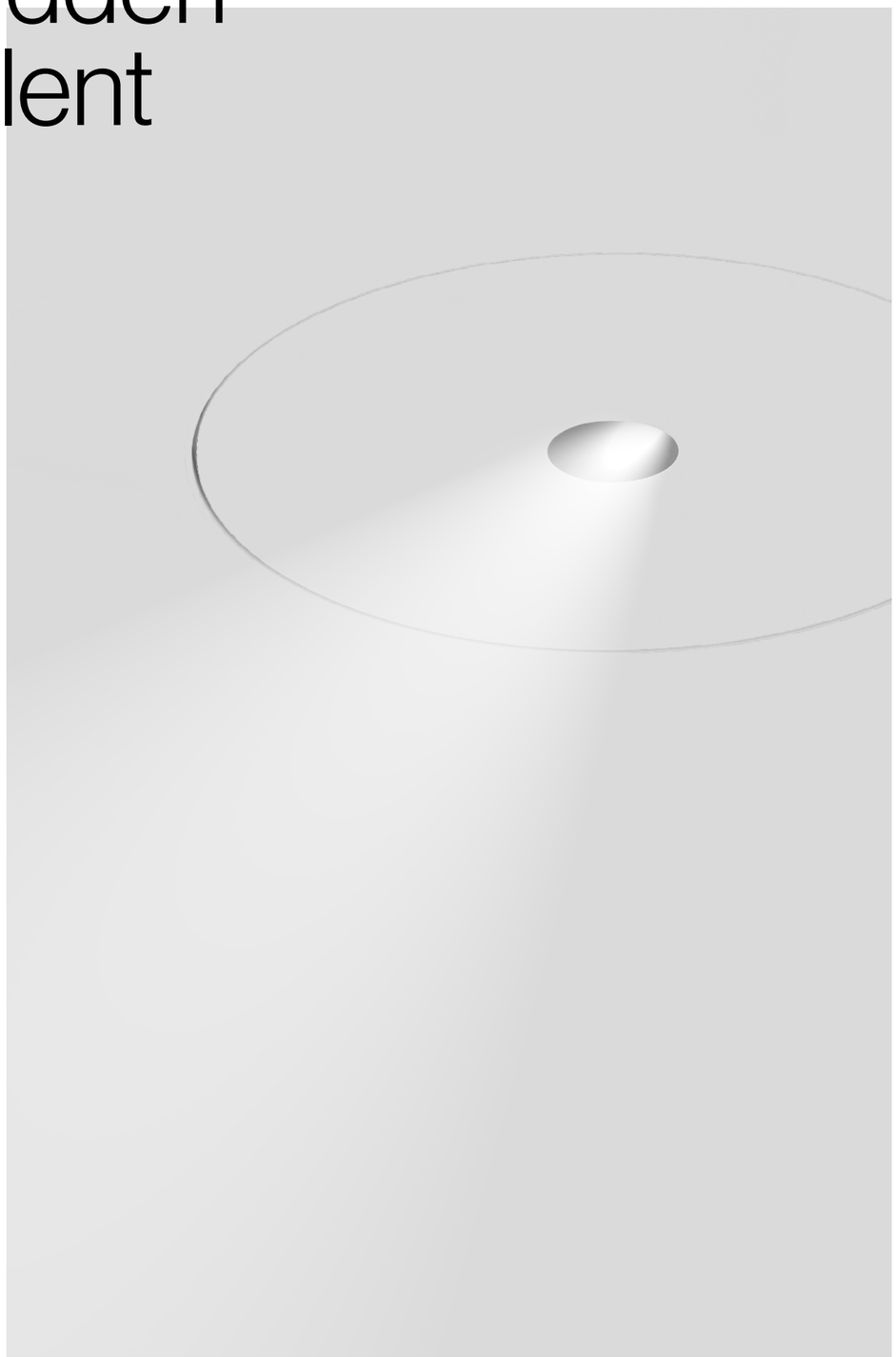
Planning information

wide floor



Office
Visualisation

Hidden talent



SPIO

EN Round, recessed SPIO spotlights bring special lighting to your rooms. The luminaire provides an impressive lighting effect, trimless or with a trim. The housing can be painted over, allowing the spotlight to blend seamlessly into the ceiling. The small light aperture of 10 mm makes the SPIO itself appear almost hidden – but the equally effective and calm overall impression is anything but invisible. The round, recessed spotlight is available with beam angles of 35° or 44° and can be rotated 360° in the housing and pivoted 30° in all directions. These different lighting options mean that versatile designs for interiors are possible. SPIO is available in the light colours 2700 K, 3000 K, and 4000 K.

ES Los focos redondos empotrables SPIO le permiten disfrutar de una iluminación especial en cualquier estancia. La luminaria garantiza un efecto luminoso impresionante, tanto en su variante sin borde como en la dotada de borde perimetral. La carcasa puede pintarse, con lo que el foco se integra en el techo a la perfección.Su reducida abertura de salida de luz de tan solo 10 mm hace que la SPIO parezca casi oculta, pero la impresión global –sosegada y espectacular– es todo menos invisible. El spot empotrable redondo, disponible con un ángulo de apertura de 35° o 44°, puede girarse 360° e inclinarse a 30° en todas las direcciones. Esto permite una variada configuración del espacio basada en las distintas posibilidades de iluminación. SPIO está disponible en temperaturas de color de 2700 K, 3000 K y 4000 K.

Type

60

Mountings

trimless recessed

with trim recessed

Light distributions

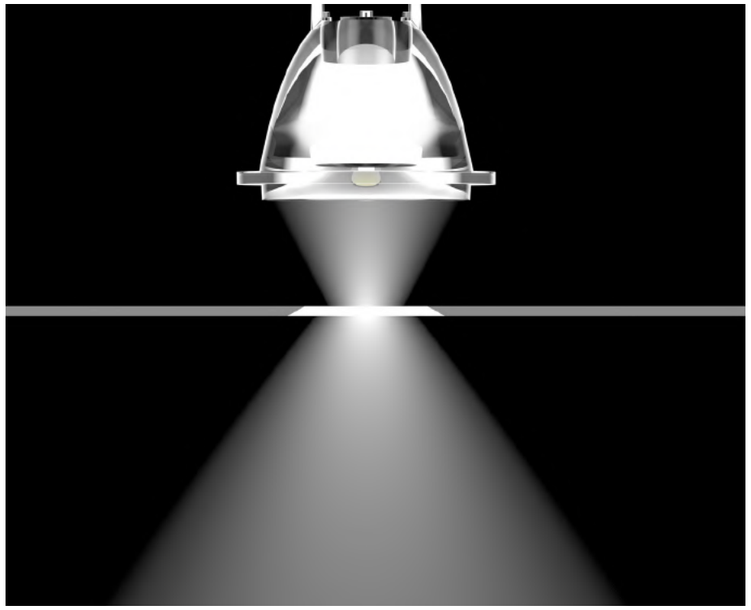
downlight

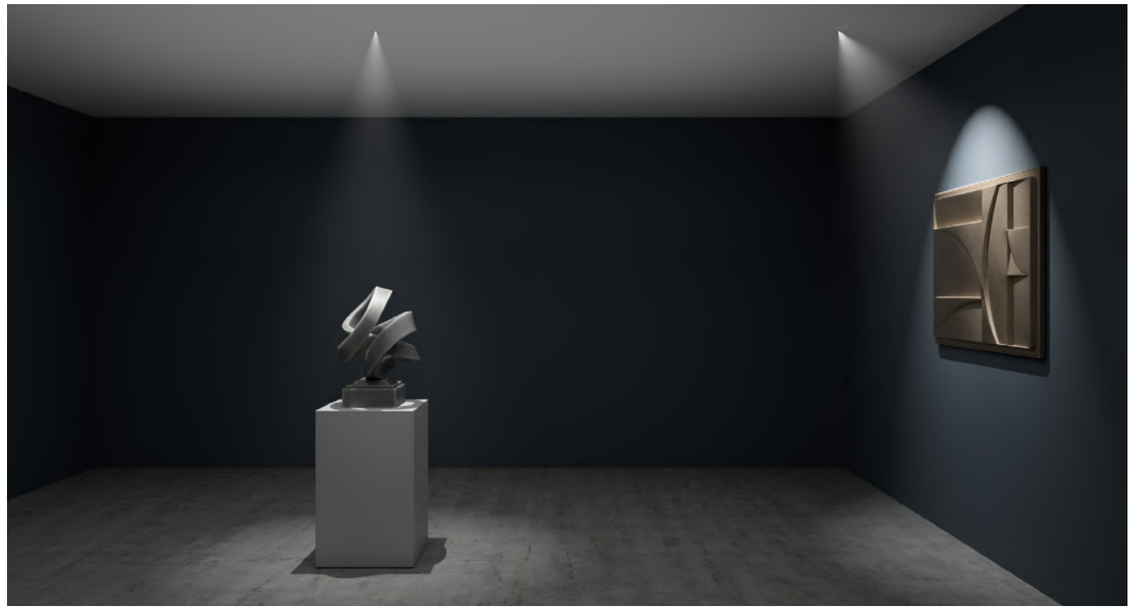
spotlight

High-efficiency lens

EN Large light output – almost unnoticed. SPIO has a special LFO lens, which is mounted at an exact distance from the light-emission surface, thus ensuring that no light beam appears on the inner surface of the housing. This reduces the light-emission surface, and SPIO illuminates the room almost unnoticed.

ES Gran intensidad luminosa –pero casi imperceptible. SPIO dispone de una lente especial LFO de enfoque ultracorto que se monta a una distancia precisa respecto a la superficie de salida de luz. Esa distancia garantiza que ningún rayo de luz incida en el interior de la carcasa. Esto reduce la superficie de salida de luz, haciendo que las luminarias SPIO iluminen los espacios de un modo casi imperceptible.





Homogeneous appearance

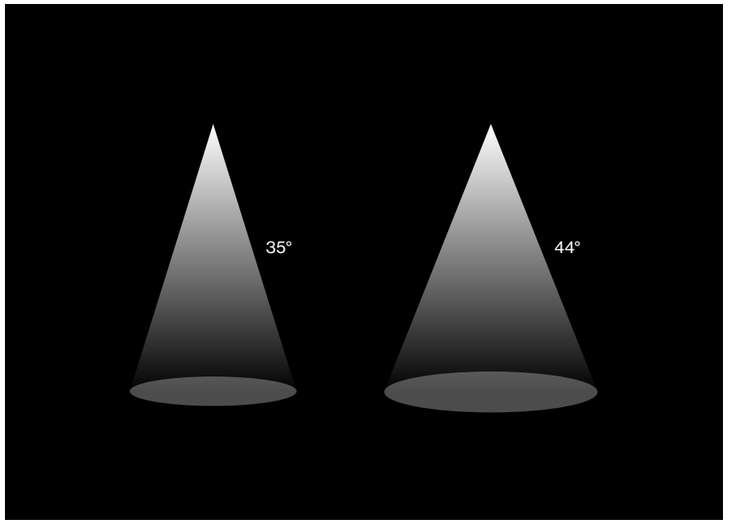
EN SPIO is the right choice for a uniform ceiling appearance. Thanks to its extremely small light aperture of 10 mm, the recessed spotlight appears almost invisible. The effective lighting is rounded off by its minimalist design language.

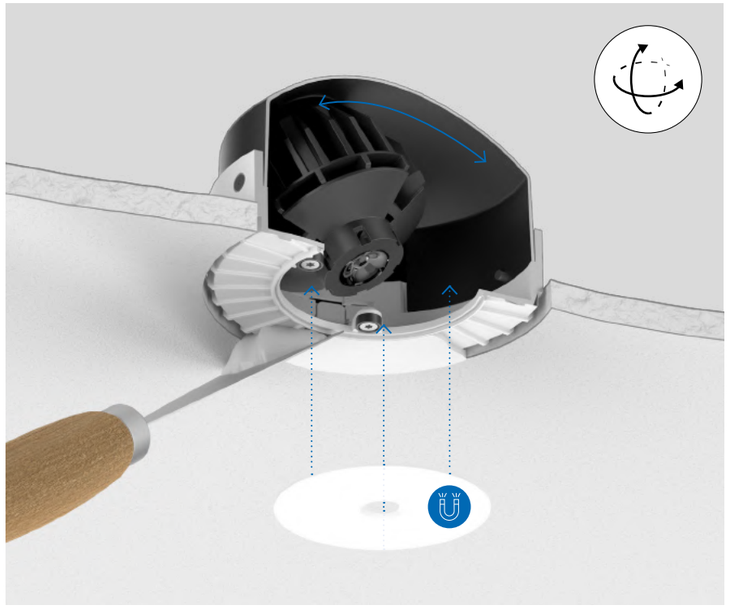
ES SPIO es la elección correcta para un patrón de techo uniforme. Gracias a su reducida abertura de salida de luz de tan solo 10 mm, el foco empotrable parece casi invisible. Su eficaz efecto luminoso se completa con un lenguaje de formas minimalista.

Light distribution

EN Despite its small emission surface, the recessed spotlight achieves a beam angle of either 35° or 44°. SPIO thus provides glare-free light and skilfully stages objects.

ES Pese a su superficie de salida reducida, el foco empotrable alcanza un ángulo de apertura de 35° o 44°. Con ello, SPIO ofrece una luz libre de deslumbramiento.





Precise light adjustment

EN The adjustable version of SPIO, patent pending, can be moved in all directions thanks to a magnetic plate. The spotlight can thus both be rotated 360° and pivoted up to 30° in all directions. As a result, it offers the greatest flexibility in directing and guiding light exactly where it is desired.

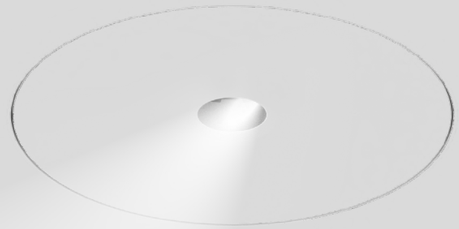
ES La variante regulable y pendiente de ser patentada de SPIO puede moverse en cualquier dirección gracias a su cabezal magnético. Esto hace que, además de girar a 360°, el foco pueda inclinarse hasta 30° en todas las direcciones. Así es capaz de ofrecer la máxima flexibilidad en la orientación y el direccionamiento de la luz exactamente hasta el lugar deseado.

Smooth and invisible

EN The trimless SPIO version can easily be maintained and adjusted thanks to its magnetic cover. The spotlight is completely fitted into a plasterboard ceiling. The recessed housing and ceiling can subsequently be painted over. The spots thus appear “invisible”, creating a homogeneous, effective overall impression.

ES La variante sin marco de SPIO es fácil de ajustar y de manipular gracias a su cubierta magnética. El foco se empotra por completo en una plancha de yeso. La carcasa empotrada puede pintarse junto con el techo de la sala. De ese modo, los spots parecen “invisibles”, obteniéndose una impresión general homogénea de gran efecto. Su mantenimiento es además muy sencillo gracias a la cubierta magnética.

back



Quickinfo

2700 K, 3000 K
CRI ≥ 90, 2 SDCM
up to 60 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

downlight

adjustable

Colour

Light distributions

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

MATERIAL COLOUR

○ traffic white RAL9016

paintable cover

BEAM ANGLE

flood 35°	F
wide flood 44°	W

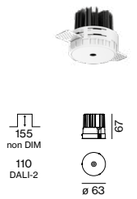
Options on request

COLOUR TEMPERATURE

4000 K

CONCRETE HOUSING

primed concrete ceiling
exposed concrete ceiling



SPIO 60 downlight

UGR ≤16 | CRI ≥90 | DALI 1 ADDR. | 2 SDCM | 1050 mA | pending | CB pending

DOWNLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
12.2 W 12 Vf 1050 mA	693 lm	048-1510 :: 17 ▲

SPIO 60 adjustable

UGR ≤16 | 360° 30° | CRI ≥90 | DALI 1 ADDR. | 2 SDCM | 850 mA | pending | CB pending

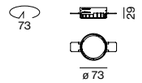
ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
9.7 W 12 Vf 850 mA	582 lm	048-1520 :: 17 ▲

Mounting accessories

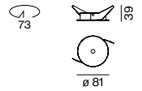
TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2696117



MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

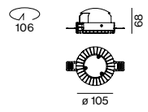
COLOUR	ORDER CODE
○ traffic white RAL9016	048-1597207
● jet black RAL 9005	048-1597208



Mounting accessories

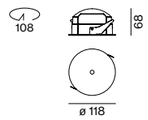
TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-1598107



MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-1597107
● jet black RAL 9005	048-1597108



Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
850 mA | non DIM	η 85 %	147·44·22	002-90785
850 mA | DALI-2	η 85 %	147·44·22	002-90786
1050 mA | non DIM	η 85 %	147·44·22	002-90787
1050 mA | DALI-2	η 85 %	147·44·22	002-90788

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

for more details and components see page 981

reddot winner 2022

DESIGN AWARD 2022

SPIO 60

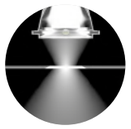
recessed

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system or with magnetic attachment; for trimless installation in plasterboard ceilings; paintable cover; shadow joint between cover and mounting set optionally fillable; choice of adjustable or fixed symmetric radiation characteristic; high quality lens system; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface (only ø10 mm); no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable redondo de inyección en aluminio; instalación sin herramientas mediante kit de montaje con sistema inserción de bola o con fijación magnética; para montaje sin marco en techos de yeso; placa cobertora pintable; separación emplastable entre la placa cobertora y el kit de montaje; proyección simétrica fija o regulable; óptica de alta calidad; vista de techo con luminaria empotrada; superficie emis. de luz reducida (solo ø10 mm); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

10 mm light ouput area

trimless installation



LFO lens technology

paintable cover

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens flood 2700 K -5 %

Private Residence
Visualisation

Private Residence
Visualisation

Spotlights behind the scene

CAVO

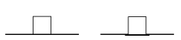
EN CAVO embodies a new type of lighting system. The round, square, rectangular, or flexible installation system can be integrated flush in suspended ceilings. The spotlights can be positioned and connected almost anywhere using a patented magnet system while remaining discreetly in the background. The spots can be rotated and swivelled individually. The glowing variant offers decorative indirect lighting of the recessed housing, which backlights the spots and effectively de-locates the light points.

ES CAVO materializa un nuevo tipo de sistema de iluminación. La carcasa empotrable redonda, cuadrada, rectangular o de diseño flexible se integra a ras de superficie en techos suspendidos. En ella, los proyectores pueden posicionarse y conectarse en casi cualquier posición gracias a un sistema magnético patentado, proporcionando una iluminación extremadamente discreta y funcional. Los proyectores pueden girarse y orientarse individualmente. Además, la variante Glowing ofrece una iluminación indirecta decorativa de que hace posible una retroiluminación de los spots y oculta los puntos de luz.

Types

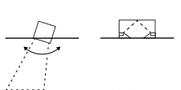
round 110 | square 110 | linear 300 / 600

Mountings



trimless recessed | trim recessed

Light distributions

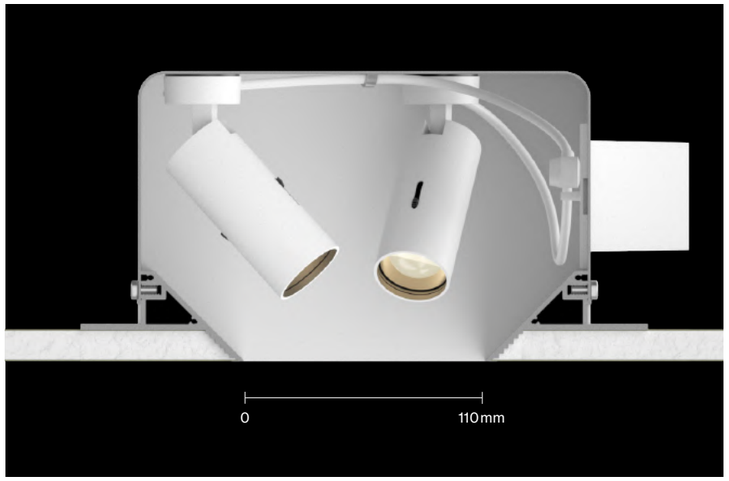


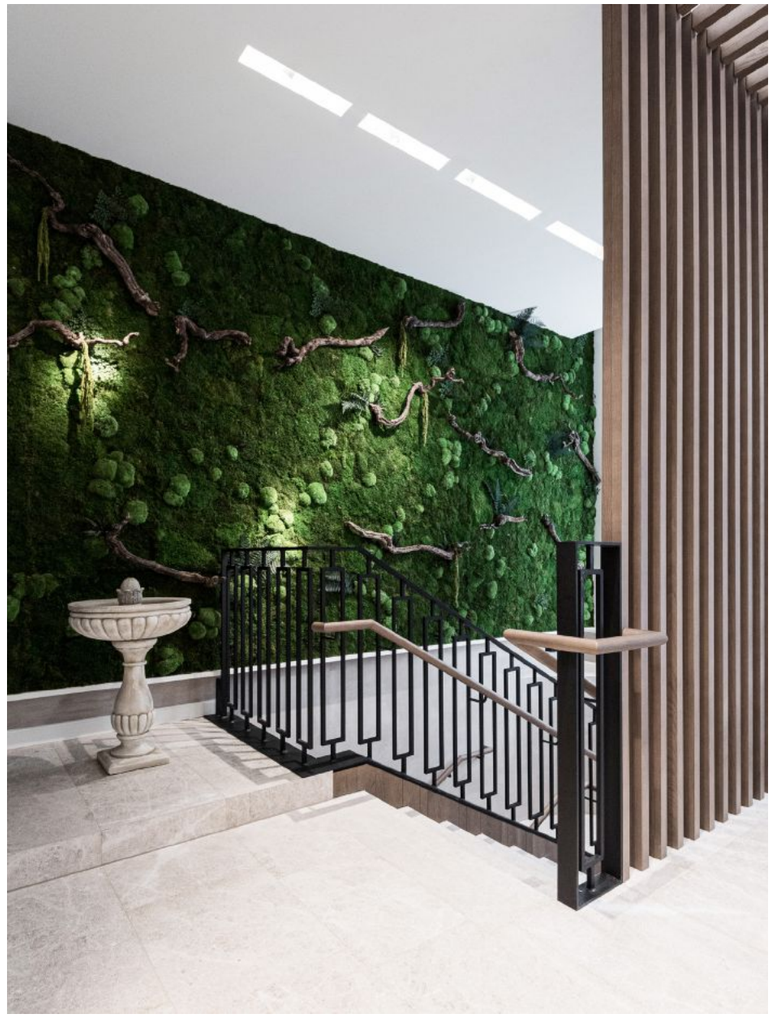
spotlight | indirect glowing light

Works invisibly

EN CAVO spotlights are mounted without tools and magnetically fixed, discreetly concealing the light source in the housing. The recessed light point plane also provides ample glare control.

ES Los proyectores CAVO se montan sin herramientas y se fijan magnéticamente, por lo que la fuente de luz se oculta discretamente en la carcasa. El plano de punto de luz retranqueado garantiza una magnífica solución contra el deslumbramiento.





Glowing effect

EN CAVO Glowing is a variant with powerful indirect lighting. Light insets, which are placed inside the box and the housing channel, illuminate from within. This creates subtle, decorative indirect light in the channel, complementing the directional light.

ES CAVO Glowing es una variante dotada de una iluminación resplandeciente de gran efecto. Los elementos de luz propios en la caja o en el canal de la carcasa alumbran estas desde el interior. Esto genera una luz indirecta discreta y decorativa en la cavidad que complementa óptimamente la luz orientada.

Magnetic attachment

EN CAVO spotlights are easy to rotate and swivel and can be repositioned and rearranged according to requirements, providing maximum mobility and light exactly where it is needed. The magnet system repositions each spotlight within the housing with just one touch.

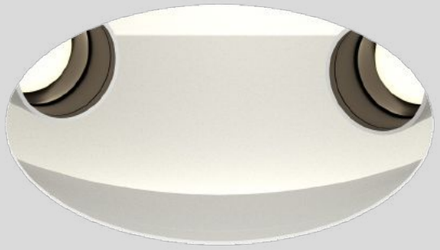
ES Máxima flexibilidad e iluminación justo allí donde se necesita: los proyectores CAVO pueden girarse y orientarse fácilmente, pudiendo recolocarse en cualquier momento según las necesidades. Un sistema de imanes permite reposicionar cada proyector dentro de la carcasa con total facilidad.

Variety

EN The individual housing is directly attached to the bare ceiling. As a single luminaire, CAVO has four different recessed housings (round, square, or rectangular in two lengths), which can be arranged with up to six spotlights.

ES La caja de montaje individual se fija directamente al techo. Como luminaria individual, CAVO dispone de cuatro cajas empotrables distintas (redonda, cuadrada o rectangular en dos longitudes), que pueden equiparse con hasta seis focos.

back



CAVO round / square

recessed

EN Recessed housing made of pressed steel sheet for flush installation in plasterboard ceilings, underside of aluminium-reinforced plaster; alternatively with round or square cut-out; no break-out of edges; 3 cylindrical spotlight heads can be installed without tools by means of magnetic holders; simple electrical connection of the spotlights due to non-reversible plug and play connection; housing and spotlights powder coated; optionally: indirect light component in housing; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering; good glare reduction due to recessed light point plane; high quality lens system; precise radiation characteristic; optical attachments as accessories; hot plug protection

ES Carcasa empotrable de acero para montaje sin borde en techos de escayola, cara inferior de escayola reforzada de alum.; opcional. con recorte redondo/cuadrado; sin rotura de bordes; 3 cabezales de foco cilíndrico insert. sin herramientas con soporte magnético; conex. eléctr. sencilla de los focos por plug & play y protegida de la polarización inversa; carcasa y foco con recubr. de polvo; opcional: componente de luz indir. en carcasa; Chip on Board para máx. eficiencia; sin sombras múltiples; LEDs eficientes con muy buena reprod. cromática; buena prevención del deslumbramiento por plano de punto de luz retranqueado; óptica de alta calidad; proyección precisa; elementos ópticos accesorios; protec. de conexión en caliente

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 2 SDCM
DALI-2

L80 @ 50 000 h
mounting housing with glowing

L90 @ 50 000 h
JUST 45 up to 69 lm/W

L95 @ 50 000 h
JUST 32 focus up to 3×54 lm/W

Types

	round	square
trimless	120	120
	ø 110	110×110

Housing colours

Inset colours

Light distributions

med. flood focus

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

CONTROL

DALI-2

INSET COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
● gold dust RAL 260-M	9

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE

medium 23°	M
flood 44°	F

Options on request

OPTICAL ACCESSORIES

elliptical sculpture foil
snoot
colour filter (red, blue, green, etc.)

only for JUST 32 focus

magnetic holders for tool-free mounting

optical accessories

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens medium 2700 K -5 %

JUST 32 focus 17–43°

360° 90° | CRI ≥ 90 | 2-SDCM | 400mA

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
4.6 W	250 lm	049-8211 :: 3 ◪

not for single use

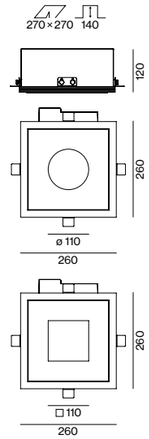
JUST 45

360° 90° | CRI ≥ 90 | 2-SDCM | 400mA

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.8 W	640 lm	049-8302 :: 3 ◪ ▲

Mounting accessories



MOUNTING HOUSING 1 DALI-2 address
for trimless installation in plasterboard ceilings 8-25 mm

TYPE	L-W-H (mm)	ORDER CODE
round | 3 spots (4.5 kg)	260·260·120	049-880303 ■
square | 3 spots (4.5 kg)	260·260·120	049-881303 ■

incl. power supply 220–240 V AC, 50–60 Hz, PC I, ENEC approved

MOUNTING HOUSING WITH GLOWING (3000 K) 2 DALI-2 addresses
for trimless installation in plasterboard ceilings 8-25 mm

TYPE	L-W-H (mm)	ORDER CODE
round | 3 spots (4.5 kg)	260·260·120	049-882353 7
square | 3 spots (4.5 kg)	260·260·120	049-883353 7

incl. power supply 220–240 V AC, 50–60 Hz, PC I, ENEC approved

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
JUST 32 focus	30·4	007-1965168
JUST 45	42·3	007-1965188

Freigeist Brauquartier
Graz, AT – by FIPE ARCHITECTURE
with lighting design by Eugen Schöberl

back

CAVO linear

recessed

EN Installation housing in pressed steel sheet with rectangular cut-out; for trimless installation in plasterboard ceilings; special edge design with perforations for better adhesion of filler; or with trim; 3 or 6 cylindrical spotlight heads can be installed without tools by means of magnetic holders; simple electrical connection of the spotlights due to non-reversible plug and play connection; housing and spotlights powder coated; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering; good glare reduction due to recessed light point plane; high quality lens system; precise radiation characteristic; optical attachments as accessories; hot plug protection

ES Carcasa empotr. de acero con recorte rectangular; para montaje sin marco en techos de yeso; formación especial de borde con orificios para mejor adherencia de masilla; o con borde alrededor; 3 o 6 cabezales de foco cilíndrico insert. sin herramientas con soporte magnético; conex. eléctr. sencilla de focos por plug & play con protecc. de polarización inversa; carcasa y foco con recubr. de polvo; opcional: componente de luz indir. en carcasa; Chip on Board para máx. eficiencia; sin sombras múltiples; LEDs eficientes con muy buena reprod. cromática; buena prevenc. del deslumbram. por plano de punto de luz retranqueado; óptica de alta calidad; proyección precisa; elementos ópticos accesorios; protec. de conexión en caliente

Quickinfo

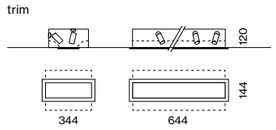
2700 K, 3000 K
CRI ≥ 90, 2 SDCM
DALI-2

L90 @ 50 000 h
JUST 45 up to 6×69 lm/W

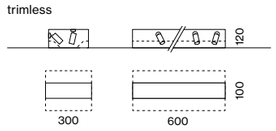
L95 @ 50 000 h
JUST 32 focus up to 6×54 lm/W

Types

trim



trimless



Housing colours

Inset colours

Light distributions

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

CONTROL

DALI-2

INSET COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
● gold dust RAL 260-M	9

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE

medium 23°	M
flood 44°	F

Options on request

OPTICAL ACCESSORIES

elliptical sculpture foil
snoot
colour filter (red, blue, green, etc.)

only for JUST 32 focus

JUST 32 focus 17–43°

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
4.6 W	250 lm	049-821 1 ⁘ 3 ◪

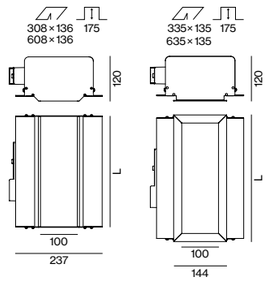
not for single use

JUST 45

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.8 W	640 lm	049-830 2 ⁘ 3 ◪ ▲

Mounting accessories



TRIMLESS MOUNTING HOUSING

for trimless installation in plasterboard ceilings 12.5 mm

TYPE	L·W·H (mm)	ORDER CODE
for 3 spots (2.4 kg), 1 DALI	308·252·120	049-884303 ■
for 6 spots (3.6 kg), 2 DALI	608·269·120	049-884603 ■

incl. power supply 220–240 V AC, 50–60 Hz, PC I, ENEC approved

MOUNTING HOUSING WITH TRIM

for intermediate ceilings 12.5 mm

TYPE	L·W·H (mm)	ORDER CODE
for 3 spots (2.7 kg), 1 DALI	344·254·120	049-885303 ■
for 6 spots (4.7 kg), 2 DALI	644·271·120	049-885603 ■

incl. power supply 220–240 V AC, 50–60 Hz, PC I, ENEC approved

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
JUST 32 focus	30·4	007-1965168
JUST 45	42·3	007-1965188

magnetic holders for tool-free mounting

optical accessories

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens medium 2700 K -5 %

Boutique Frame Moscow, RU –
by Architectural Group Method with
lighting design by KA2 Light Architecture

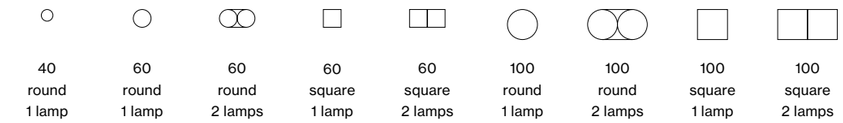
Combine with your design

SASSO

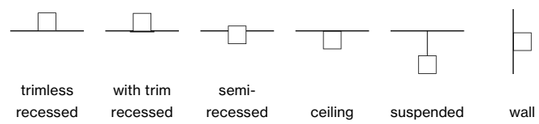
EN SASSO is a glamorous lighting solution for extravagant interior concepts regardless of how it is used. The versatile spotlight series is available as a recessed, semi-recessed, ceiling- or wall-mounted, or suspended version. Choose between round or square versions, as well as single or double-lamp spotlights in some versions. To ensure the spot fits harmoniously into the overall design, it is available in many colours. The housing colours white, black, and silver can be optimally combined with a selection of differently coloured insets. SASSO is available with different light distribution characteristics – either as spotlight, downlight, wallwasher, or wallwasher floor. In addition, sensors or emergency insets are optionally available. The series is characterised by an excellent colour rendering up to CRI ≥ 95 (2-SDCM) in all light colours: 2700 K, 3000 K, 4000 K, or Colour Warm Dimming.

ES Sea cual sea a aplicación, SASSO es una atractiva solución lumínica para diseños de interior extraordinarios. Esta heterogénea familia de proyectores está disponible en numerosas variantes, con modelos empotrados, semiempotrados, de techo o de pared. También es posible elegir entre variantes redondas o cuadradas. Para poder integrarse armónicamente en el diseño global, el proyector está disponible en muchos colores, pudiendo combinar la carcasa de color blanco, negro, plata u oro con una gama de reflectores en colores diversos. Gracias a su óptica de lente de extremada calidad, SASSO es capaz de emitir luz con precisión en sus variantes de spot, bañador de pared o pared / suelo. En todas las temperaturas de color –2700 K, 3000 K o 4000 K o Colour Warm Dimming–, esta serie se caracteriza por una excelente reproducción cromática con un índice CRI ≥ 90.

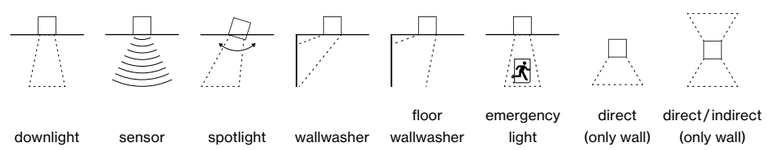
Types



Mountings

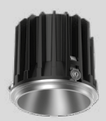


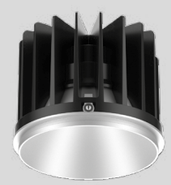
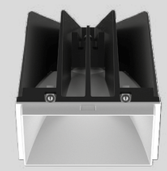
Light distributions



SASSO recessed

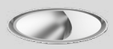
Light engines

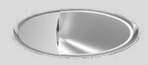
	SASSO 40 round adjustable / downlight	**SASSO 40** round wallwasher / wallwasher floor	**SASSO 60** round adjustable / downlight	**SASSO 60** round wallwasher / wallwasher floor
				
INSET POWER	7.4 W	6.8 W	10.7 W	8.2 W
LUMINOUS EFFICACY	up to 84 lm/W	up to 97 lm/W	up to 107 lm/W	up to 89 lm/W
LUMINOUS FLUX	up to 624 lm	up to 659 lm	up to 1150 lm	up to 726 lm
COLOUR TEMPERATURE	2700, 3000, 4000 K	2700, 3000, 4000 K	2700,3000,4000K,CWD	2700, 3000, 4000 K
BEAM ANGLE	14°, 27°, 45°	asymmetric	15°, 21°, 42°	asymmetric
IP RATING	↧ IP40 / ↥ IP20 (adj.) ↧ IP44 / ↥ IP20 (dl.)	IP20	↧ IP40 / ↥ IP20 (adj.) ↧ IP44 / ↥ IP20 (dl.)	IP20
MATERIAL COLOUR	matt silver, white, black, gold	matt silver, white, black, gold	matt silver, white, black, gold	matt silver, white, black, gold

	SASSO 60 square downlight	**SASSO 60** square wallwasher / wallwasher floor	**SASSO 100** round adjustable / downlight	**SASSO 100** round wallwasher / wallwasher floor	**SASSO 100** square adjustable / downlight	**SASSO 100** square wallwasher / wallwasher floor
						
INSET POWER	10.7 W	8.2 W	17.2 W, 25 W	25 W, 23.4 W	17.2 W, 25 W	25 W, 23.4 W
LUMINOUS EFFICACY	up to 110 lm/W	up to 89 lm/W	up to 116 lm/W	up to 120 lm/W	up to 116 lm/W	up to 120 lm/W
LUMINOUS FLUX	up to 1180 lm	up to 726 lm	up to 2630 lm	up to 2810 lm	up to 2640 lm	up to 2810 lm
COLOUR TEMPERATURE	2700,3000,4000K,CWD	2700, 3000, 4000 K	2700, 3000, 4000 K	2700, 3000, 4000 K	2700, 3000, 4000 K	2700, 3000, 4000 K
BEAM ANGLE	15°, 21°, 42°	asymmetric	19°, 34°, 45°, 65°	asymmetric	19°, 34°, 45°, 65°	asymmetric
IP RATING	↧ IP44 / ↥ IP20	IP20	↧ IP40 / ↥ IP20 (adj.) ↧ IP44 / ↥ IP20 (dl.)	IP20	↧ IP40 / ↥ IP20 (adj.) ↧ IP44 / ↥ IP20 (dl.)	IP20
MATERIAL COLOUR	matt silver, white, black, gold	matt silver, white, black, gold	matt silver, white, black, gold	matt silver, white, black, gold	matt silver, white, black, gold	matt silver, white, black, gold

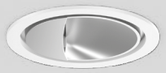
Mounting accessories

round trimless
for plasterboard ceilings 12.5/15/25 mm





round with trim | 1 lamp
for intermediate ceilings 2–25 mm

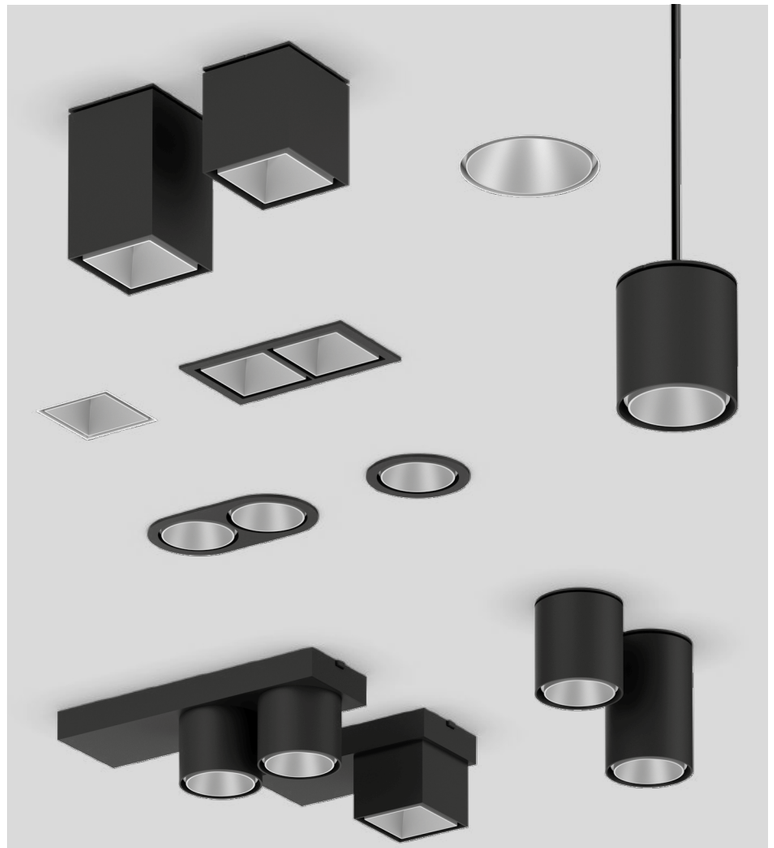


round with trim | 2 lamps
for intermediate ceilings 2–25 mm

square trimless
for plasterboard ceilings 12.5/15/25 mm

square with trim | 1 lamp
for intermediate ceilings 2–25 mm

square with trim | 2 lamps
for intermediate ceilings 2–25 mm



Variety

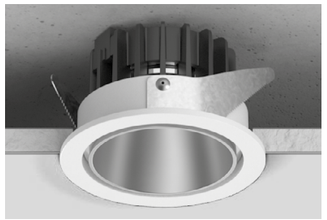
EN SASSO can be integrated into any lighting design concept. The spotlights are available as recessed, semi-recessed, wall and ceiling mounted variants, as single or dual-lamp spotlights in an elegant base, or as suspended versions. Depending on the interior design, choose between round or square luminaires and the recessed set with or without trim.

ES SASSO se integra en cualquier concepto lumínico. Los focos están disponibles en modelos empotrables, semiempotrables, de pared o de techo en variante individual o doble y de suspensión. Dependiendo del diseño de la sala, tiene la posibilidad de elegir entre la forma redonda o cuadrada con o sin marco.

Precise light adjustment

EN A patented swivel mechanism offers the highest possible flexibility. The spotlight can be rotated through 360° and swivelled up to 30° around the horizontal axis. This enables light to be directed precisely where it is needed.

ES Un mecanismo de orientación patentado ofrece la máxima flexibilidad. El proyector no solo gira 360°, sino también es capaz de inclinarse hasta 30° en el eje horizontal. Esto permite dirigir la luz con precisión allí donde se desee.



Low recess depth

EN SASSO 40 complements XAL's SASSO product family with a small, flexible spotlight that is particularly impressive due to its low height. This makes it an ideal lighting solution for ceiling constructions with an unusually low installation depth.

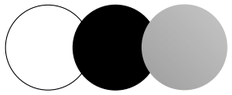
ES SASSO 40 amplía la familia SASSO de XAL con un proyector pequeño y flexible que se distingue sobre todo por su reducido tamaño. Esto lo convierte en una solución de iluminación óptima para estructuras de techo con una profundidad de montaje muy pequeña.

Colour variety

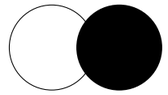
EN SASSO is available in many different colour variations to complement custom designs and colour concepts. The select housing colours (white, black, and silver) combine beautifully with silver, white, black, or gold insets, delivering a harmonious, high-quality overall design.

ES SASSO está disponible en numerosas variantes de color distintas para adaptarse a diseños y planteamientos cromáticos individuales. Los colores de la carcasa (blanco, negro y plata) pueden combinarse a la perfección con detalles en plata, blanco, negro, dorado o cobre, dando como resultado un conjunto armónico y de alta calidad.

Housing colours



SASSO 60/100 recessed



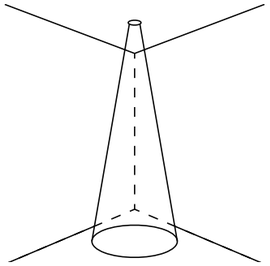
SASSO 40 recessed
SASSO 60/100 semi-recessed/
ceiling/suspended/wall

Inset colours

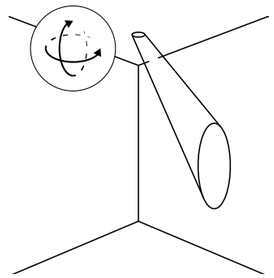
Light distributions

EN SASSO has four optics and thus fulfils all the fundamental functions of your lighting concept. Vertical lighting is provided by downlights with different beam angles; wallwasher and wall-floor optics provide extensive wall and floor illumination; the adjustable spotlight sets accents. If the functional area changes, the optics in the luminaire housing can be simply replaced without tools.

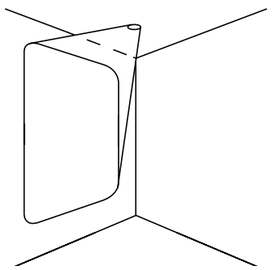
ES SASSO cuenta con cuatro ópticas y cumple todas las funciones básicas de cualquier esquema de iluminación. La iluminación vertical es ofrecida por downlights dotados de diversos ángulos de apertura, mientras que las ópticas Wallwasher y Wall-Floor garantizan un alumbrado extenso de paredes y suelos y el proyector direccional proporciona acentos elegantes. Si el rango de funciones cambia, la óptica puede sustituirse fácilmente y sin herramientas en la carcasa de la luminaria.



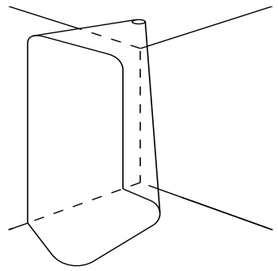
SASSO 60 downlight



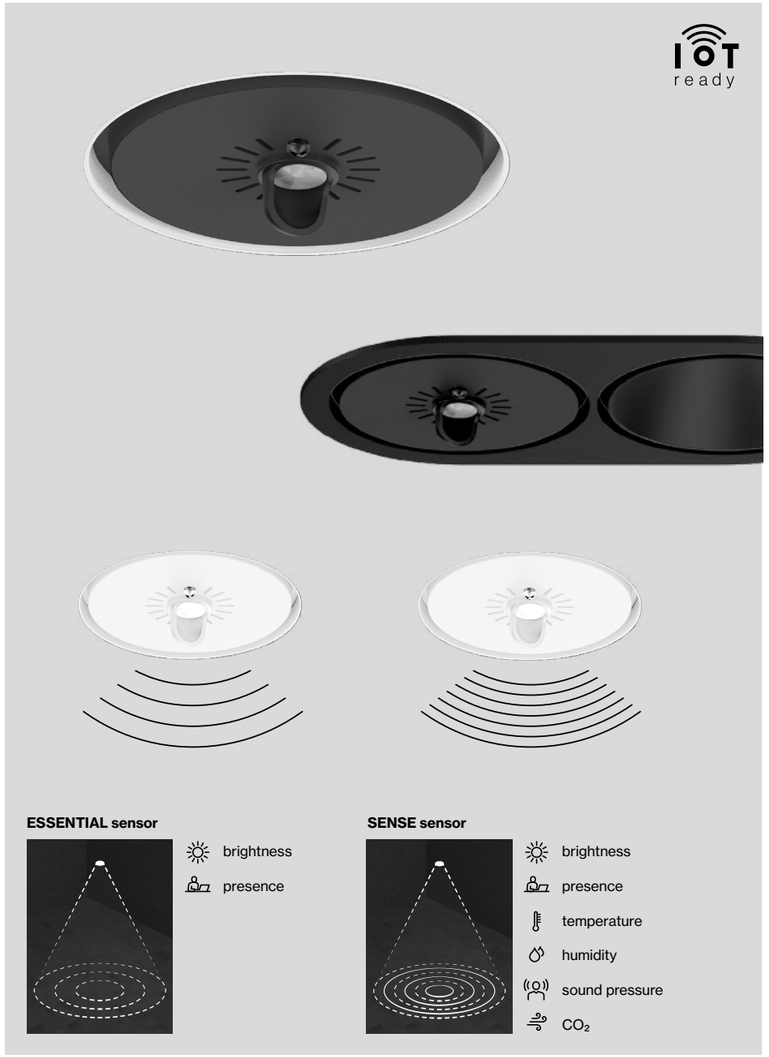
SASSO 60 adjustable



SASSO 60 wallwasher



SASSO 60 wallwasher floor



Smart lighting

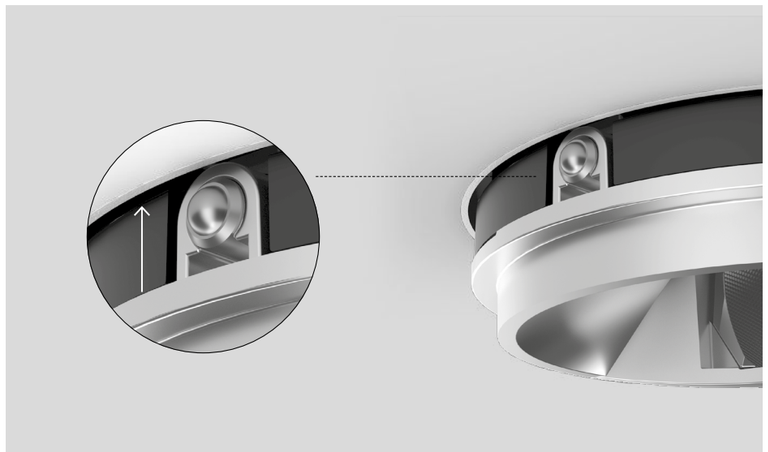
EN Special sensors expand the SASSO round recessed product family with smart lighting control and collection of insightful data. The ESSENTIAL sensor enables dynamic adjustment of the lighting to ambient brightness and room activity. The SENSE version also measures values such as temperature, air quality, humidity and noise level. These data not only provide important insights into the ambient conditions and use of rooms, but also support energy savings in the long term.

ES Los sensores especiales amplían la familia de productos SASSO redondos y empotrados con un control inteligente de la iluminación y la recogida de datos. El sensor ESSENTIAL permite adaptar la luz dinámicamente a la luminosidad del entorno y a la actividad de la sala. La variante SENSE también mide valores como la temperatura, la calidad y humedad del aire y el nivel de ruido. Estos datos no solo ofrecen información importante sobre las condiciones ambientales y el uso de las salas, sino también fomentan el ahorro energético.

Ball catch system

EN SASSO spots are easy to replace. Assembly is quick and entirely without tools, thanks to a ball catch system. The lighting thus always adapts flexibly to new requirements and circumstances.

ES Los spots SASSO pueden desmontarse fácilmente: es rápido y sin herramientas gracias a un sistema de cierre a presión. Esto hace que la iluminación pueda adaptarse siempre a los nuevos requisitos y circunstancias con total flexibilidad.



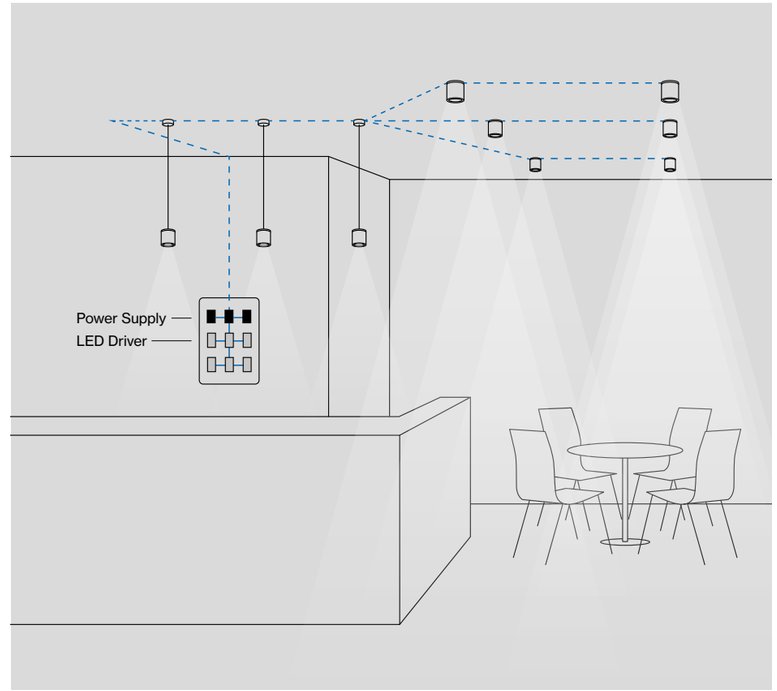
DIN Rail (DALI)

EN The DIN Rail driver centralises the power supply of several spotlights. This simplifies both the installation and maintenance of a lighting system: drivers no longer have to be installed in false ceilings, but are located collectively in a control cabinet.

More information on page 981.

ES El convertidor DIN Rail centraliza la entrada de corriente de varios focos. Esto simplifica tanto la instalación como el mantenimiento de un sistema de iluminación, puesto que los convertidores no deben encastrarse en falsos techos, sino que se encuentran agrupados en un armario eléctrico.

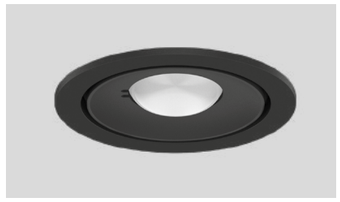
Más información en la página 981



CWD – Colour Warm Dimming

EN Warm light quality with reduced illuminance. Colour Warm Dimming reduces the light intensity while continuously changing the colour temperature between 3000 K and 1800 K. The function supports, for example, the change between cosy restaurant lighting during the day and a relaxing lighting mood in the evening.

ES Luz cálida combinada con una intensidad luminosa reducida: Colour Warm Dimming reduce la intensidad de la luz a la vez que regula la temperatura de color sin etapas entre 3000 K y 1800 K. Esta función hace posible, entre otras cosas, cambiar entre una iluminación acogedora de restaurante durante el día y un ambiente luminoso relajante por la noche.



Emergency light

EN The round emergency light inset can be easily added to a lighting system without tools. The battery life is three hours – that's how long the inset can be disconnected from the power supply. It is available in three versions: BASIC provides for functional checking at the push of a button, SELF-TEST indicates functionality by means of a status LED, and in the PRO variant the status can be called up via DALI.

ES El accesorio redondo de luz de emergencia puede añadirse a un sistema de iluminación fácilmente sin necesidad de herramientas. La duración de la batería es de tres horas, lo que corresponde al tiempo que puede mantenerse desconectado del suministro eléctrico. Está disponible en tres variantes: BASIC establece la comprobación de estado pulsando un botón, SELF-TEST indica el funcionamiento mediante un LED de estado y la variante Pro permite consultar el estado a través de DALI.

back

SASSO 40 round

recessed

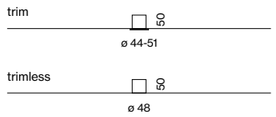
EN Round recessed spotlight; installation without tools in mounting set (trimless or with trim) with ball catch system; surface lacquered; installation possible in different housings; choice of adjustable / fixed symmetric or asymmetric radiation characteristic; variants with symmetric radiation characteristic: precise radiation characteristic due to high quality lens system; variants with asymmetric radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE and DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable redondo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; superficie lacada; posibilidad de instalar distintas carcasas; elección de la característica de radiación; ajustable o fija simétrica o asimétrica; variantes de radiación simétrica: proyección precisa con óptica de lente de alta calidad; variantes con emisión asimétrica: reflector de alta calidad con superficie de múltiples facetas revestida con aluminio por vaporización; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE y DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
up to 97 lm/W
L80 @ 50 000 h
non DIM, DALI-2
↧ IP44 / ↥ IP20

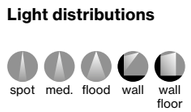
Types

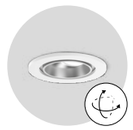


Housing colours

Inset colours

Light distributions





rotatable 360°, tiltable 30°

wallwasher and ww floor inset

glare control (UGR ≤ 16)

60 mm recess depth (DIN rail)

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

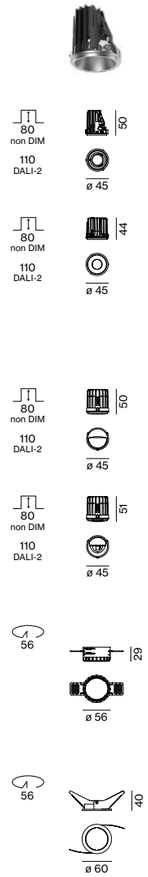
BEAM ANGLE

spot 14°	S
medium 27°	M
flood 45°	F

Options on request

POWER SUPPLY

DIM 1–10 V



SASSO 40 round

ADJUSTABLE (↧ IP40 / ↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
7.4 W 36 Vf 200 mA	624 lm	048-282021A

DOWNLIGHT (↧ IP44 / ↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
7.4 W 36 Vf 200 mA	624 lm	048-280021A

WALLWASHER (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.8 W 27 Vf 250 mA	605 lm	048-284021A

WALLWASHER / FLOOR (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.8 W 27 Vf 250 mA	659 lm	048-284021W

Mounting accessories

TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2896117

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2896317
● jet black RAL 9005	048-2896318

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

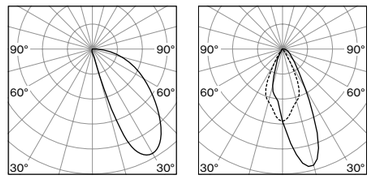
TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
200 mA | non DIM	η 80 %	65·39·20	002-90744
200 mA | DALI-2	η 82 %	147·33·23	002-90745
250 mA | non DIM	η 80 %	65·39·20	002-90742
250 mA | DALI-2	η 82 %	147·33·23	002-90743

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652021O
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-612103O

for more details and components see page 981

Light distributions



wallwasher

wallwasher floor

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -5 %, 4000 K +5 %

Private Residence
Kreta, GR – by ROOMS GmbH

back

SASSO 60 round

recessed

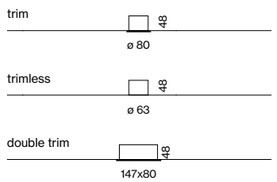
EN Round recessed spotlight; installation without tools in mounting set (trimless or with trim) with ball catch system; surface lacquered; installation possible in different housings; choice of adjustable / fixed symmetric or asymmetric radiation characteristic; variants with symmetric radiation characteristic: precise radiation characteristic due to high quality lens system; variants with asymmetric radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE and DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable redondo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; superficie lacada; posibilidad de instalar distintas carcasas; elección de la característica de radiación; ajustable o fija simétrica o asimétrica; variantes de radiación simétrica: proyección precisa con óptica de lente de alta calidad; variantes con emisión asimétrica: reflector de alta calidad con superficie de múltiples facetas revestida con aluminio por vaporización; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE y DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K, CWD
CRI ≥ 90, 2 SDCM
up to 107 lm/W
L80 @ 50 000 h
non DIM, DALI-2
↧ IP44 / ↥ IP20

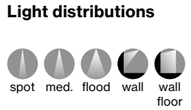
Types



Housing colours

Inset colours

Light distributions



rotatable 360°,
tiltable 30°

wallwasher and
ww floor inset

glare control
(UGR ≤ 16)

60 mm
recess depth

CWD
1800 – 3000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
CWD 1800 – 3000 K*	

*only for DALI-2

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE

spot 15°	S
medium 21°	M
flood 42°	F

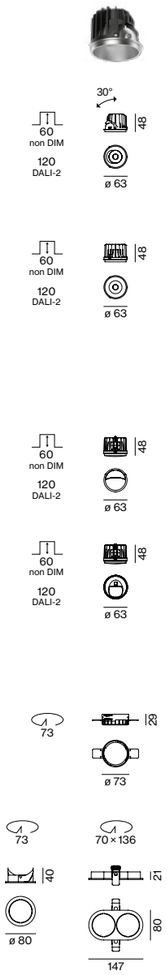
Options on request

COLOR RENDERING INDEX
CRI ≥ 95, 2 SDCM

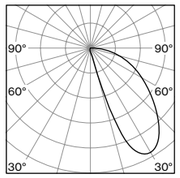
CONTROL
Casambi

MOUNTING SET
acoustic soft ceilings

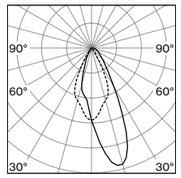
POWER SUPPLY
DIM 1 – 10 V



Light distributions



wallwasher



wallwasher floor

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -5 %, 4000 K +5 %

SASSO 60 round

ADJUSTABLE (↧ IP40 / ↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
10.7 W 36 Vf 300 mA	1040 lm	048-262221
10.4 W 35 Vf 300 mA	CWD 949 lm	048-2622E1

DOWNLIGHT (↧ IP44 / ↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
10.7 W 36 Vf 300 mA	1070 lm	048-260221
10.4 W 35 Vf 300 mA	CWD 949 lm	048-2602E1

WALLWASHER (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	635 lm	048-264121A

WALLWASHER / FLOOR (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	633 lm	048-264121W

Mounting accessories

TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-26961 17

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

TYPE	COLOUR	ORDER CODE
1 lamp	● white aluminium RAL 9006	048-269631G
	○ traffic white RAL9016	048-269631 7
	● jet black RAL 9005	048-269631 8
2 lamps	● white aluminium RAL 9006	048-269831G
	○ traffic white RAL9016	048-269831 7
	● jet black RAL 9005	048-269831 8

CONCRETE MOUNTING HOUSING

COLOUR	L·W·H (mm)	ORDER CODE
exposed concrete ceilings	230·230·162	048-269521 0
primed concrete ceilings*	614·307·120	048-269511 0

*order mounting set separately, not applicable for 2 lamps mounting set with trim

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
300 mA | non DIM	η 85 %	85·40·22	002-90771
300 mA | DALI-2	η 88 %	143·43·30	002-90762

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652021 0
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-612103 0

for more details and components see page 981

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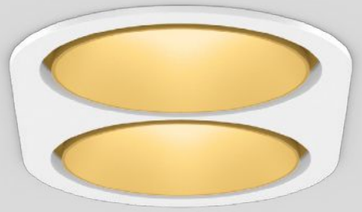


SASSO 100 round

recessed

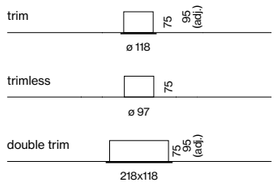
EN Round recessed spotlight; installation without tools in mounting set (trimless or with trim) with ball catch system; surface lacquered; installation possible in different housings; choice of adjustable / fixed symmetric or asymmetric radiation characteristic; variants with symmetric radiation characteristic: precise radiation characteristic due to high quality lens system; variants with asymmetric radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE and DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable redondo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; superficie lacada; posibilidad de instalar distintas carcasas; elección de la característica de radiación; ajustable o fija simétrica o asimétrica; variantes de radiación simétrica: proyección precisa con óptica de lente de alta calidad; variantes con emisión asimétrica: reflector de alta calidad con superficie de múltiples facetas revestida con aluminio por vaporización; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE y DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
up to 120 lm/W
L80 @ 50 000 h
non DIM, DALI-2
↧ IP44 / ↥ IP20

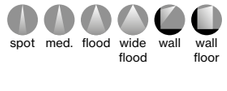
Types



Housing colours

Inset colours

Light distributions



rotatable 360°, tiltable 30°

wallwasher and ww floor inset

glare control (UGR ≤ 16)

80 mm recess depth

CWD 1800 – 3000 K

CRI ≥ 95 2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

Options on request

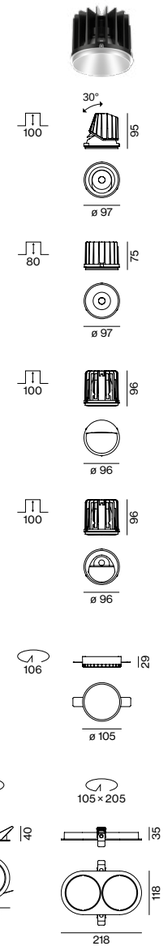
COLOR RENDERING INDEX
CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE
CWD 1800 – 3000 K
not for WW & WWF version

CONTROL
Casambi

MOUNTING SET
acoustic soft ceilings

POWER SUPPLY
DIM 1 – 10 V



INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, wide flood 2700 K -5 %, 4000 K +5 %

SASSO 100 round

ADJUSTABLE (↧ IP40 / ↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
17.2 W 36 Vf 500 mA	1850 lm	048-272 0 ⁘ 1 ◪ ▲
25 W 36 Vf 700 mA	2450 lm	048-272 0 ⁘ 1 ◪ ▲

DOWNLIGHT (↧ IP44 / ↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
17.2 W 36 Vf 500 mA	1830 lm	048-270 0 ⁘ 1 ◪ ▲
25 W 36 Vf 700 mA	2410 lm	048-270 0 ⁘ 1 ◪ ▲

WALLWASHER (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
25 W 36 Vf 700 mA	2290 lm	048-274 0 ⁘ 1 ◪ A

WALLWASHER / FLOOR (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
23.4 W 36 Vf 700 mA	2670 lm	048-274 0 ⁘ 1 ◪ W

Mounting accessories

TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-279 6117

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

TYPE	COLOUR	ORDER CODE
1 lamp	● white aluminium RAL 9006	048-279631G
	○ traffic white RAL9016	048-279631 7
	● jet black RAL 9005	048-279631 8
2 lamps	● white aluminium RAL 9006	048-279831G
	○ traffic white RAL9016	048-279831 7
	● jet black RAL 9005	048-279831 8

CONCRETE MOUNTING HOUSING

COLOUR	L-W-H (mm)	ORDER CODE
exposed concrete ceilings	230·230·162	048-279 5210
primed concrete ceilings*	614·307·120	048-269 5110

*order mounting set separately, not applicable for 2 lamps mounting set with trim

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
500 mA | non DIM	η 88 %	143·43·30	002-90777
500 mA | DALI-2	η 88 %	143·43·30	002-90779
700 mA | non DIM	η 80 %	143·43·30	002-90774
700 mA | DALI-2	η 88 %	143·43·30	002-90776

THROUGH WIRING CONNECTION BOX

TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-253 1110
DALI cable ø 4 – 12 mm	105·58·30	005-255 1110

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652 0210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-612 1030

for more details and components see page 981

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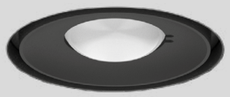


SASSO 60 round
sensor / emergency

recessed

EN Round inset (Emergency Light or Sensor); installation without tools in mounting set (trimless or with trim) with ball catch system; surface lacquered; installation possible in different housings; LED emergency light inset: 3 variants with different test possibilities - BASIC with test button, SELF-TEST with status LED or PRO DALI-2 with monitoring via DALI; sensor with DALI-2 control: 2 variants – ESSENTIAL with brightness and presence sensor or SENSE with additional temperature, humidity, air quality and noise level measurement

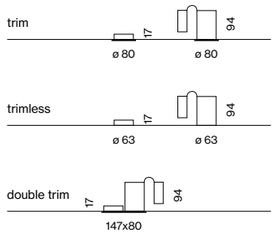
ES Inserto redondo (luz emergencia/sensor); instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; superficie lacada; posibilidad de instalar distintas carcasas; inserto luz de emerg. LED: 3 variantes con difer. opciones de test - BASIC con botón de prueba, SELF-TEST con LED de estado o PRO DALI-2 con superv. a través de DALI; sensor con control DALI-2: 2 variantes – ESSENTIAL con sensor de luminosidad y presencia o SENSE con medición adic. de temperatura, humedad y calidad del aire y nivel de ruido

Quickinfo

sensor
ESSENTIAL, SENSE
DALI-2

emergency light
6500 K
CRI ≥ 80
200 lm
L80 @ 50 000 h
non maintained

Types



Housing colours

Inset colours

Sensors

Order options

INSET COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

BEAM ANGLE EMERGENCY LIGHT

spot lens
escape route lens
anti panic lens

Options on request

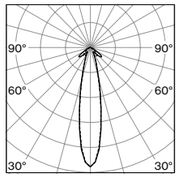
MOUNTING SET

acoustic soft ceilings

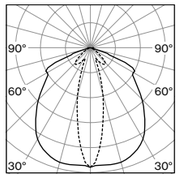
INSET COLOUR

grey, gold

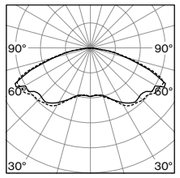
Light distributions



emergency light
spot lens



emergency light
escape route lens



emergency light
anti panic lens

SASSO 60 sensor round

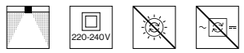
ESSENTIAL SENSOR

TYPE	ORDER CODE
brightness & presence	048-269311

SENSE SENSOR

TYPE	ORDER CODE
brightness, presence, temperature, sound pressure, humidity, CO_2	048-269312

SASSO 60 emergency light round



EMERGENCY 3h

TYPE	ORDER CODE
BASIC | 2 W	048-269321
SELF-TEST | 2 W	048-269322
PRO DALI-2 | 2 W	048-269323

incl. 3 interchangeable lenses

Electrical accessories

ACCUPACK

TYPE	ORDER CODE
replacement accupack 3h	048-2693910

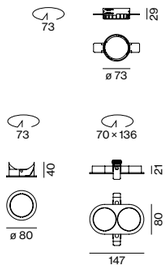
Mounting accessories

TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2696117

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

TYPE	COLOUR	ORDER CODE
1 lamp	○ traffic white RAL9016	048-2696317
	● jet black RAL 9005	048-2696318
2 lamps	○ traffic white RAL9016	048-2698317
	● jet black RAL 9005	048-2698318



CONCRETE MOUNTING HOUSING

COLOUR	L·W·H (mm)	ORDER CODE
exposed concrete ceilings	230·230·162	048-2695210
primed concrete ceilings*	614·307·120	048-2695110

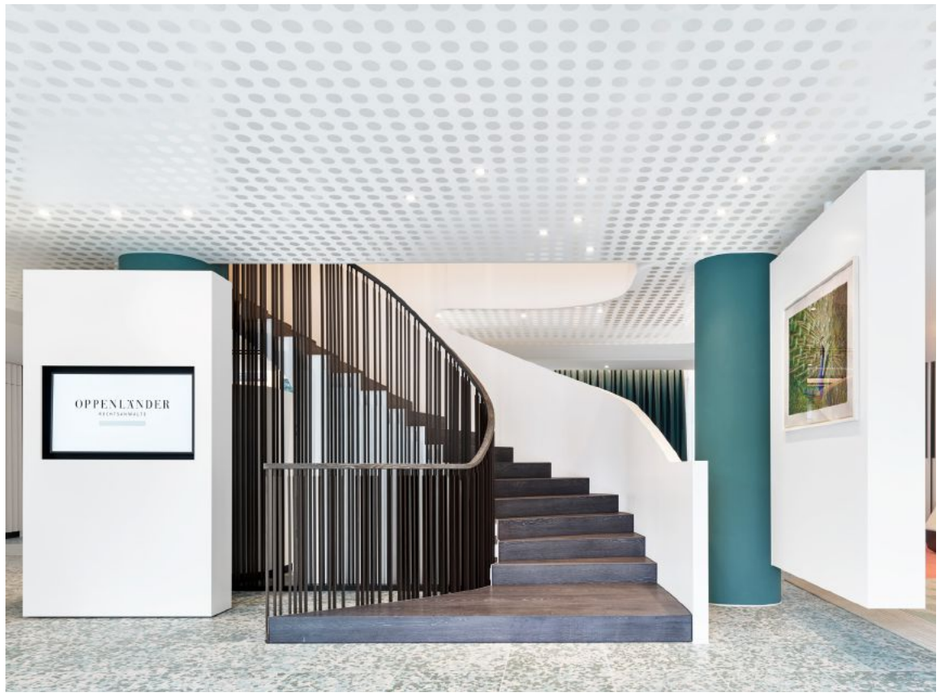
*order mounting set separately, not applicable for 2 lamps mounting set with trim

Deansgate Square Manchester, UK –
by Lister & Lister with lighting design
by Troup, Bywaters & Anders Lighting

Deansgate Square Manchester, UK –
by Lister & Lister with lighting design
by Troup, Bywaters & Anders Lighting

HeidelbergCement AG
Heidelberg, DE – by Albert Speer + Partner Architekten with lighting design by Hailight Lichtplanung, Andreas Haidegger

Oppenländer Rechtsanwälte
Stuttgart, DE – by Ippolito Fleitz Group GmbH



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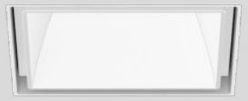
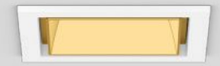




SASSO 60 square

recessed

EN Square recessed spotlight; installation without tools in mounting set (trimless or with trim) with ball catch system; surface lacquered; installation possible in different housings; choice of fixed symmetric or asymmetric radiation characteristic; variants with symmetric radiation characteristic: precise radiation characteristic due to high quality lens system; variants with asymmetric radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable cuadrado; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; superficie lacada; posibilidad de instalar distintas carcasas; elección de la característica de radiación; fija simétrica o asimétrica; variantes de radiación simétrica: proyección precisa con óptica de lente de alta calidad; variantes con emisión asimétrica: reflector de alta calidad con superficie de múltiples facetas revestida con aluminio por vaporización; Chip on Board que proporciona una máxima eficiencia (DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K, CWD
CRI ≥ 90, 2 SDCM
up to 110 lm/W
L80 @ 50 000 h
non DIM, DALI-2
↧ IP44/↥ IP20

Types

Housing colours

Inset colours

Light distributions

wallwasher and
ww floor inset

glare control
(UGR ≤ 16)

60 mm
recess depth

CWD
1800 – 3000 K

CRI ≥ 95
2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
CWD 1800 – 3000 K*	

*only for DALI-2

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE

spot 15°	S
medium 21°	M
flood 42°	F

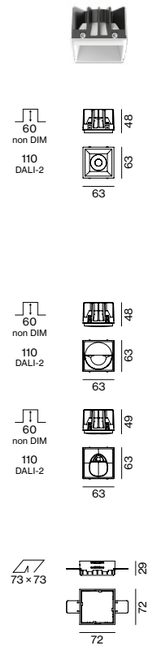
Options on request

COLOR RENDERING INDEX
CRI ≥ 95, 2 SDCM

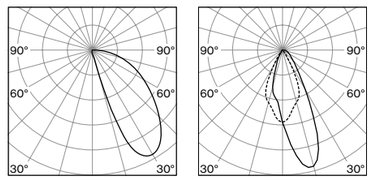
CONTROL
Casambi

MOUNTING SET
acoustic soft ceilings

POWER SUPPLY
DIM 1 – 10 V



Light distributions



INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -5%, 4000 K +5%

SASSO 60 square

UGR ≤16 | CRI ≥90 | 300mA | 2-SDCM | IP20 ↥ / IP44 ↧ | CB | X-PERT

DOWNLIGHT (↧ IP44/↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
10.7 W 36 Vf 300 mA	1180 lm	048-26121 ▪▪ 1 ◪ ▲
10.4 W 35 Vf 300 mA	CWD 949 lm	048-26121E1 ◪ ▲

CRI ≥90 | DALI 1 ADDR. | 300mA | CB | X-PERT | X-PERT

WALLWASHER (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	635 lm	048-26511 ▪▪ 1 ◪ A

WALLWASHER/FLOOR (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	633 lm	048-26511 ▪▪ 1 ◪ W

Mounting accessories

TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2697117

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

TYPE	COLOUR	ORDER CODE
1 lamp	● white aluminium RAL 9006	048-269731G
	○ traffic white RAL9016	048-2697317
	● jet black RAL 9005	048-2697318
2 lamps	● white aluminium RAL 9006	048-269931G
	○ traffic white RAL9016	048-2699317
	● jet black RAL 9005	048-2699318

CONCRETE MOUNTING HOUSING

COLOUR	L-W-H (mm)	ORDER CODE
primed concrete ceilings*	614·307·120	048-2695110

*order mounting set separately, not applicable for 2 lamps mounting set with trim

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
300 mA | non DIM	η 85 %	85·40·22	002-90771
300 mA | DALI-2	η 88 %	143·43·30	002-90762

THROUGH WIRING CONNECTION BOX

TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-2531110
DALI cable ø 4 – 12 mm	105·58·30	005-2551110

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

for more details and components see page 981

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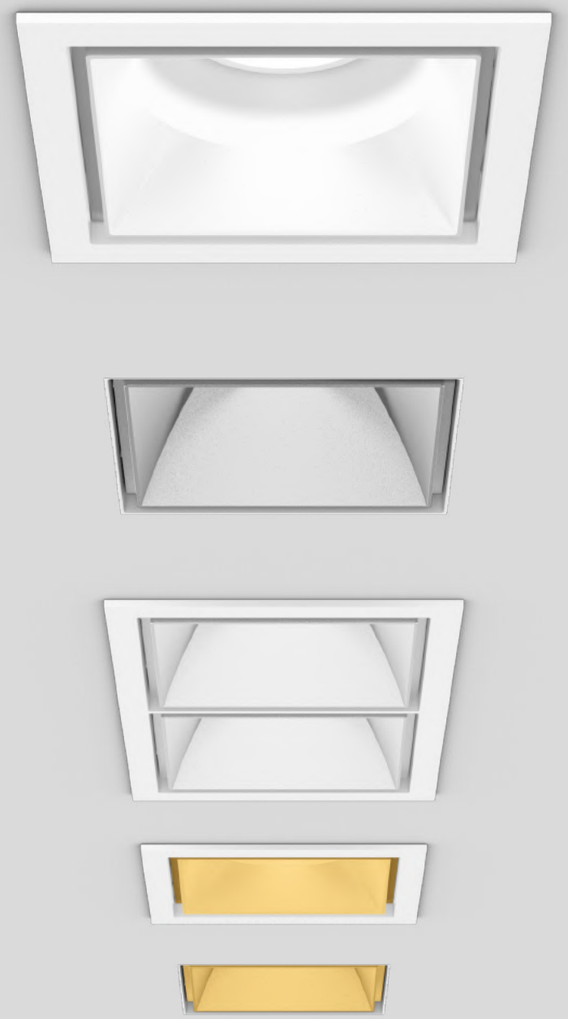


SASSO 100 square

recessed

EN Square recessed spotlight; installation without tools in mounting set (trimless or with trim) with ball catch system; surface lacquered; installation possible in different housings; choice of adjustable / fixed symmetric or asymmetric radiation characteristic; variants with symmetric radiation characteristic: precise radiation characteristic due to high quality lens system; variants with asymmetric radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE and DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable cuadrado; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; superficie lacada; posibilidad de instalar distintas carcasas; elección de la característica de radiación; ajustable o fija simétrica o asimétrica; variantes de radiación simétrica: proyección precisa con óptica de lente de alta calidad; variantes con emisión asimétrica: reflector de alta calidad con superficie de múltiples facetas revestida con aluminio por vaporización; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE y DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
up to 120 lm/W
L80 @ 50 000 h
non DIM, DALI-2
↧ IP44/↥ IP20

Types

Housing colours

Inset colours

Light distributions

wallwasher and ww floor inset

glare control (UGR ≤ 16)

60 mm recess depth

CWD 1800 – 3000 K

CRI ≥ 95 2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

Options on request

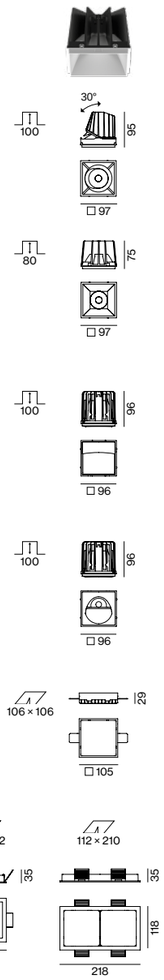
COLOR RENDERING INDEX
CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE
CWD 1800 – 3000 K
not for WW & WWF version

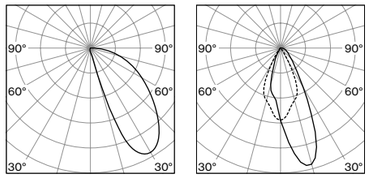
CONTROL
Casambi

MOUNTING SET
acoustic soft ceilings

POWER SUPPLY
DIM 1 – 10 V



Light distributions



wallwasher

wallwasher floor

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, wide flood
2700 K -5 %, 4000 K +5 %

SASSO 100 square

ADJUSTABLE (↧ IP40/↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
17.2 W 36 Vf 500 mA	1860 lm	048-273012
25 W 36 Vf 700 mA	2450 lm	048-273012

DOWNLIGHT (↧ IP44/↥ IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
17.2 W 36 Vf 500 mA	1890 lm	048-271012
25 W 36 Vf 700 mA	2500 lm	048-271012

WALLWASHER (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
25 W 36 Vf 700 mA	2290 lm	048-275012A

WALLWASHER/FLOOR (IP20)

INSET POWER	LUMINOUS FLUX	ORDER CODE
23.4 W 36 Vf 700 mA	2670 lm	048-275012W

Mounting accessories

TRIMLESS MOUNTING SET for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2797117

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

TYPE	COLOUR	ORDER CODE
1 lamp	● white aluminium RAL 9006	048-279731G
	○ traffic white RAL9016	048-2797317
	● jet black RAL 9005	048-2797318
2 lamps	● white aluminium RAL 9006	048-279931G
	○ traffic white RAL9016	048-2799317
	● jet black RAL 9005	048-2799318

CONCRETE MOUNTING HOUSING

COLOUR	L-W-H (mm)	ORDER CODE
primed concrete ceilings*	614·307·120	048-2695110

*order mounting set separately, not applicable for 2 lamps mounting set with trim

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, □ PC II

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
500 mA | non DIM	η 88 %	143·43·30	002-90777
500 mA | DALI-2	η 88 %	143·43·30	002-90779
700 mA | non DIM	η 80 %	143·43·30	002-90774
700 mA | DALI-2	η 88 %	143·43·30	002-90776

THROUGH WIRING CONNECTION BOX

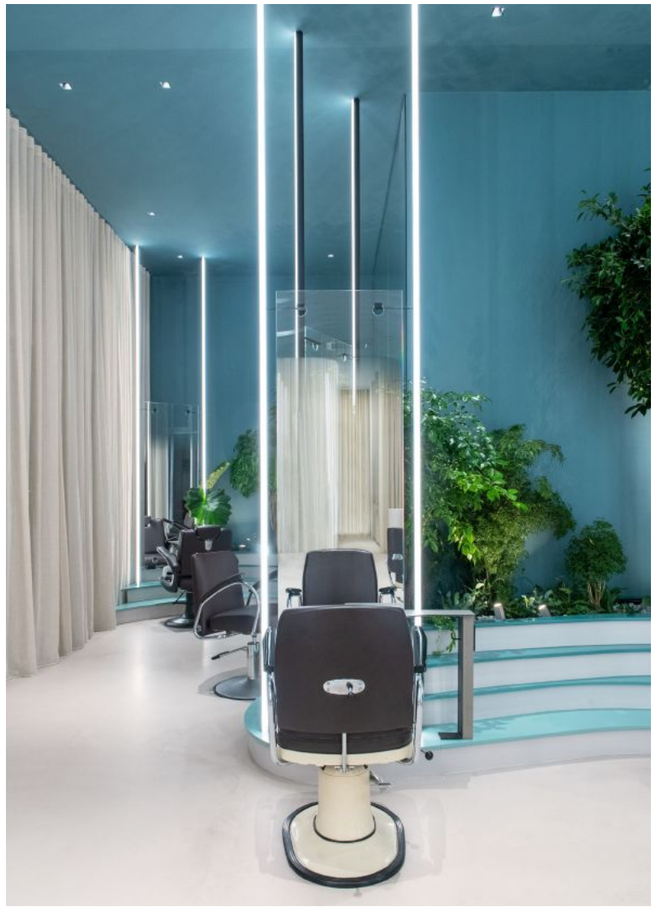
TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-2531110
DALI cable ø 4 – 12 mm	105·58·30	005-2551110

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

for more details and components see page 981

Zeitgeist Graz, AT –
by FIPE ARCHITECTURE



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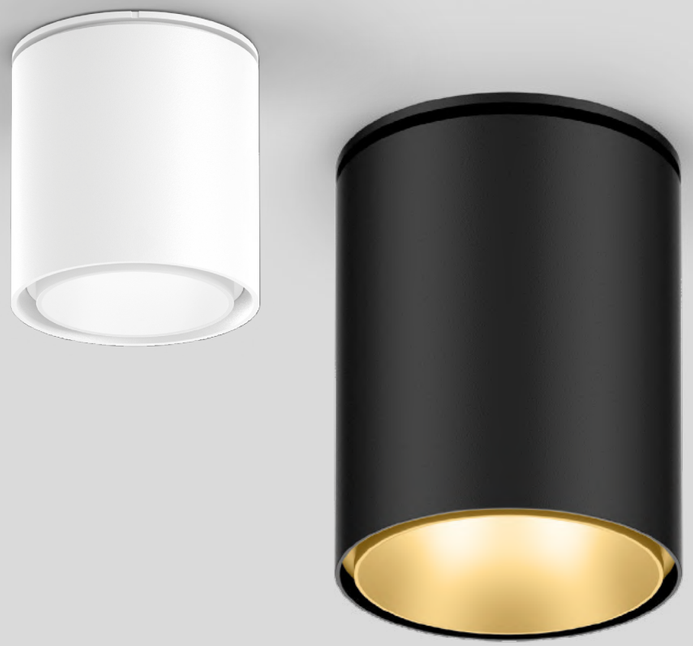


SASSO 60 / 100 round

semi-recessed

EN Cylindrical semi-recessed spotlight made of aluminium, available in 2 sizes; light inset lacquered; housing powder coated; luminaire housing can be attached to mounting plate without tools by interlock; choice of adj. sym. or asym. radiation characteristic; variants with sym. radiation characteristic: precise due to high quality lens system; variants with asym. radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE); no multiple shadows; efficient LEDs with very good colour rendering; external converter for ceiling insertion, for through-wiring suitable

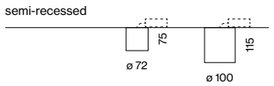
ES Foco cilíndrico de aluminio para el montaje semiempotrado en 2 tamaños; inserto lumin. pintado; carcasa con recubr. de polvo; cuerpo luminoso insertable en la placa de montaje por enclavamiento y sin necesidad de herramienta; proyección sim. o asim. regulable; variantes de radiación sim.: precisa con óptica lente alta calidad; variantes de radiación asim.: reflector de alta calidad con superficie microfacetada metaliz. con aluminio; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática; convertidor externo para inserción en el techo, adecuado para cableado pasante

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO 60 up to 104 lm/W
SASSO 100 up to 117 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

semi-recessed



Housing colours

Inset colours

Light distributions

SASSO 60

SASSO 100

wallwasher and
ww floor inset

glare control
(UGR ≤ 16)

easy mounting;
no visible screws

CWD
1800 – 3000 K

CRI ≥ 95
2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE SASSO 60

spot 15°	S
medium 21°	M
flood 42°	F

BEAM ANGLE SASSO 100

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE

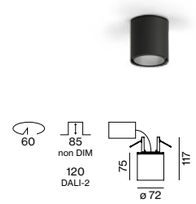
CWD 1800 – 3000 K

not for WW & WWF version

CONTROL

Casambi

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -5%, 4000 K +5%



SASSO 60 round semi-recessed

360° 30° | UGR ≤ 16 | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 300 mA | X-PERT | X-PERT

ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
10.7 W 36 Vf 300 mA	1040 lm	048-310 1 ∷ 1 ◪ ■ ▲

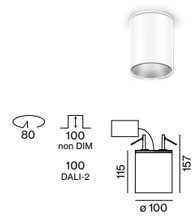
CRI ≥ 90 | DALI 1 ADDR. | 300 mA | X-PERT | X-PERT

WALLWASHER

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	635 lm	048-370 1 ∷ 1 ◪ ■ A

WALLWASHER / FLOOR

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	633 lm	048-370 1 ∷ 1 ◪ ■ W



SASSO 100 round semi-recessed

360° 20° | UGR ≤ 16 | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 500 mA | X-PERT | X-PERT

ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
17.2 W 36 Vf 500 mA	1850 lm*	048-340 1 ∷ 1 ◪ ■ ▲

*reflector white flood

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
300 mA | non DIM	η 85 %	85·40·22	002-90771
300 mA | DALI-2	η 88 %	143·43·30	002-90762
500 mA | non DIM	η 88 %	143·43·30	002-90777
500 mA | DALI-2	η 88 %	143·43·30	002-90779

THROUGH WIRING CONNECTION BOX for SASSO 100

TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-253111 0
DALI cable ø 4 – 12 mm	105·58·30	005-255111 0

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652021 0
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-612103 0

for more details and components see page 981

back

SASSO 60 / 100 round

ceiling

EN Cylindrical ceiling mounted spotlight made of aluminium, available in 2 sizes; light inset lacquered; housing powder coated; luminaire housing can be attached to mounting plate without tools by interlock; adj. sym. or asym. radiation characteristic; variants with sym. radiation characteristic: precise due to high quality lens system; variants with asym. radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE); no multiple shadows; efficient LEDs with very good colour rendering; converter integrated into spotlight head

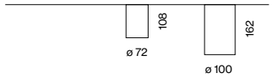
ES Foco cilíndrico de aluminio para montaje en techo en 2 tamaños; inserto lumin. pintado; carcasa con recubr. de polvo; cuerpo luminoso insertable en la placa de montaje por enclavamiento y sin necesidad de herramienta; proyección sim. o asim. regulable; variantes de radiación sim.: precisa con óptica lente alta calidad; variantes de radiación asim.: reflector de alta calidad con superficie microfacetada metaliz. con aluminio; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática; driver integrado en el proyector

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO 60 up to 81 lm/W
SASSO 100 up to 100 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

ceiling



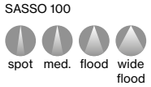
Housing colours

Inset colours

Light distributions

SASSO 60

SASSO 100



wallwasher and ww floor inset

glare control (UGR ≤ 16)

easy mounting; no visible screws

CWD 1800 – 3000 K

CRI ≥ 95 2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE SASSO 60

spot 15°	S
medium 21°	M
flood 42°	F

BEAM ANGLE SASSO 100

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE

CWD 1800 – 3000 K

not for WW & WWF version

SASSO 60 round ceiling

ADJUSTABLE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.6 W	2700 K	808 lm	0 4 8 - 3 1 1 0
	3000 K	874 lm	
	4000 K	939 lm	

WALLWASHER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.4 W	2700 K	635 lm	0 4 8 - 3 7 1 0 A
	3000 K	635 lm	
	4000 K	744 lm	

WALLWASHER / FLOOR

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.4 W	2700 K	633 lm	0 4 8 - 3 7 1 0 W
	3000 K	633 lm	
	4000 K	746 lm	

SASSO 100 round ceiling

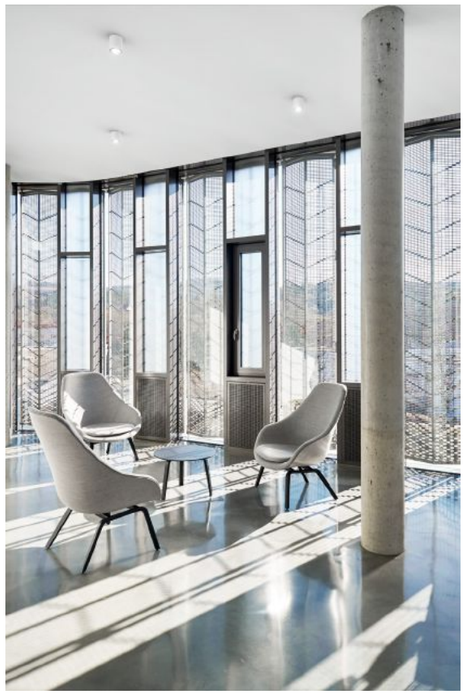
ADJUSTABLE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20.2 W	2700 K	1650 lm	0 4 8 - 3 4 1 0
	3000 K	1790 lm	
	4000 K	1930 lm	

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, reflector flood

Oppenländer Rechtsanwälte
Stuttgart, DE – by Ippolito Fleitz Group GmbH

WIKUS Sägenfabrik Spangenberg, DE – by Bieling Architekten AG with lighting design by Peter Andres Unabhängige Lichtplanung und -beratung GbR



Private Residence
Copenhagen, DK –
by COBE Architects with
lighting design by anker & co

back

SASSO 60 / 100 square

semi-recessed

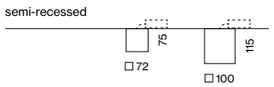
EN Square semi-recessed spotlight made of aluminium, available in 2 sizes; light inset lacquered; housing powder coated; luminaire housing can be attached to mounting plate without tools by interlock; choice of adjustable / fixed symmetric or asymmetric radiation characteristic; variants with sym. radiation characteristic: precise due to high quality lens system; variants with asym. radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE and DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering; external converter for ceiling insertion, for through-wiring suitable

ES Foco cuadrado de aluminio para el montaje semiempotrado en 2 tamaños; inserto lumin. pintado; carcasa con recubr. de polvo; cuerpo luminoso insertable en la placa de montaje por enclavamiento y sin necesidad de herramienta; elección de la característica de radiación; ajustable o fija simétrica o asimétrica; variantes de radiación sim.: precisa con óptica lente alta calidad; variantes de radiación asim.: reflector de alta calidad con superficie microfacetada metaliz. con aluminio; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE y DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática; convertidor externo para inserción en el techo, adecuado para cableado pasante

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO 60 up to 86 lm/W
SASSO 100 up to 119 lm/W
L80 @ 50 000 h
non DIM, DALI-2

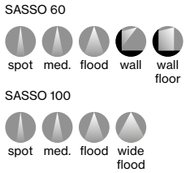
Types



Housing colours

Inset colours

Light distributions



wallwasher and ww floor inset

glare control (UGR ≤ 16)

easy mounting; no visible screws

CWD 1800 – 3000 K

CRI ≥ 95 2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE SASSO 60

spot 15°	S
medium 21°	M
flood 42°	F

BEAM ANGLE SASSO 100

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

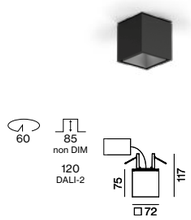
Options on request

COLOUR RENDERING INDEX
CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE
CWD 1800 – 3000 K
not for WW & WWF version

CONTROL
Casambi

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -5 %, 4000 K +5 %



SASSO 60 square semi-recessed

UGR ≤ 16 | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 300 mA | X-PERT | X-PERT

DOWNLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
10.7 W 36 Vf 300 mA	1100 lm	048-300 1 :: 1 ◪ ■ ▲

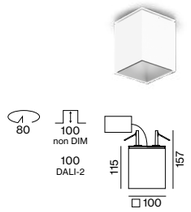
CRI ≥ 90 | DALI 1 ADDR. | 300 mA | X-PERT | X-PERT

WALLWASHER

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	635 lm	048-360 1 :: 1 ◪ ■ A

WALLWASHER / FLOOR

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.2 W 27 Vf 300 mA	633 lm	048-360 1 :: 1 ◪ ■ W



SASSO 100 square semi-recessed

20° | UGR ≤ 19 | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 500 mA | X-PERT | X-PERT

ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
17.2 W 36 Vf 500 mA	1890 lm*	048-330 1 :: 1 ◪ ■ ▲

*reflector wide flood

Electrical accessories

POWER SUPPLY 220-240 V AC 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
300 mA | non DIM	η 85 %	85·40·22	002-90771
300 mA | DALI-2	η 88 %	143·43·30	002-90762
500 mA | non DIM	η 88 %	143·43·30	002-90777
500 mA | DALI-2	η 88 %	143·43·30	002-90779

THROUGH WIRING CONNECTION BOX for SASSO 100

TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-253111 0
DALI cable ø 4 – 12 mm	105·58·30	005-255111 0

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652021 0
LED DRIVER DALI-2 DT6 1–2 addr. 200 – 1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10 – 40 V	36·88·59	005-612103 0

for more details and components see page 981

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SASSO 60 / 100 square

ceiling

EN Square ceiling mounted spotlight made of aluminium, available in 2 sizes; light inset lacquered; housing powder coated; luminaire housing can be attached to mounting plate without tools by interlock; choice of adjustable / fixed symmetric or asymmetric radiation characteristic; variants with sym. radiation characteristic: precise due to high quality lens system; variants with asym. radiation characteristic: high-quality reflector with micro-faceted, aluminum-vaporised surface; COB (Chip on Board) technology for maximum efficiency (ADJUSTABLE and DOWNLIGHT); no multiple shadows; efficient LEDs with very good colour rendering; luminaire for through wiring; converter integrated into spotlight head

ES Foco cuadrado de aluminio para montaje en techo en 2 tamaños; inserto lumin. pintado; carcasa con recubr. de polvo; cuerpo luminoso insertable en la placa de montaje por enclavamiento y sin necesidad de herramienta; elección de la característica de radiación; ajustable o fija simétrica o asimétrica; variantes de radiación sim.: precisa con óptica lente alta calidad; variantes de radiación asim.: reflector de alta calidad con superficie microfacetada metaliz. con aluminio; Chip on Board que proporciona una máxima eficiencia (ADJUSTABLE y DOWNLIGHT); no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática; luminaria para cableado pasante; driver integrado en el proyector

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO 60 up to 94 lm/W
SASSO 100 up to 101 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

ceiling

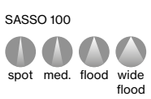
Housing colours

Inset colours

Light distributions

SASSO 60

SASSO 100



wallwasher and
ww floor inset

glare control
(UGR ≤ 16)

easy mounting;
no visible screws

CWD
1800 – 3000 K

CRI ≥ 95
2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE SASSO 60

spot 15°	S
medium 21°	M
flood 42°	F

BEAM ANGLE SASSO 100

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

Options on request

COLOUR RENDERING INDEX

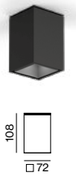
CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE

CWD 1800 – 3000 K

not for WW & WWF version

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, reflector flood



SASSO 60 square ceiling

UGR ≤ 16 | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DOWNLIGHT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.6 W	2700 K	857 lm	0 4 8 - 3 0 1 0 ⁚ ◪ ■ ▲
	3000 K	927 lm	
	4000 K	996 lm	

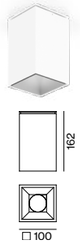
CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

WALLWASHER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.4 W	2700 K	617 lm	0 4 8 - 3 6 1 0 ⁚ ◪ ■ A
	3000 K	617 lm	
	4000 K	726 lm	

WALLWASHER / FLOOR

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.4 W	2700 K	633 lm	0 4 8 - 3 6 1 0 ⁚ ◪ ■ W
	3000 K	633 lm	
	4000 K	746 lm	



SASSO 100 square ceiling

20° | UGR ≤ 19 | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

ADJUSTABLE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20.2 W	2700 K	1700 lm	0 4 8 - 3 3 1 0 ⁚ ◪ ■ ▲
	3000 K	1840 lm	
	4000 K	1980 lm	

Relesys Office Copenhagen, DK –
by Lobo-Lab Architects
with lighting design by anker & co

back

SASSO 60 / 100 round

suspended

EN Cylindrical spotlight made of aluminium, available in 2 sizes; light inset lacquered; housing powder coated; pendant fitting with cable suspension; incl. feed (black or white); can be individually shortened; precise radiation characteristic due to high quality lens system; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering; canopy for through wiring; converter included in canopy

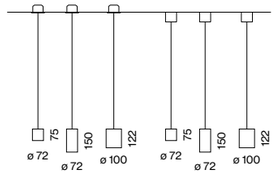
ES Proyector cilíndrico de aluminio en 2 tamaños; inserto lumin. pintado; carcasa con recubr. de polvo; suspendido con cable; incl. cable de alimentación (negro o blanco); se puede acortar; proyección precisa con óptica de lente de alta calidad; Chip on Board que proporciona una máxima eficiencia; no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática; baldaquino para cableado pasante; convertidor integrado en el baldaquino

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO 60 up to 83 lm/W
SASSO 100 up to 98 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

suspended



Housing colours

Inset colours

Light distributions

SASSO 60

SASSO 100

Order options

HOUSING HEIGHT L

75 mm	2
150 mm	7

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE SASSO 60

spot 15°	S
medium 21°	M
flood 42°	F

BEAM ANGLE SASSO 100

spot 19°	S
medium 34°	M
flood 45°	F
wide flood 65°	W

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

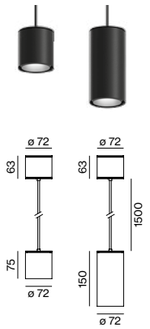
MOUNTING

recessed canopy

glare control
(UGR ≤ 16)

easy mounting;
no visible screws

CRI ≥ 95
2 SDCM

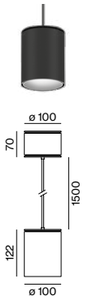


SASSO 60 round suspended

UGR ≤ 16 | CRI ≥ 90 | 2-SDCM | 1 ADDR. | 220-240V | X-PERT | X-PERT

DOWNLIGHT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.6 W	2700 K	833 lm	0 4 8 - 3 1 L 0
	3000 K	901 lm	
	4000 K	968 lm	



SASSO 100 round suspended

UGR ≤ 19 | CRI ≥ 90 | 2-SDCM | 1 ADDR. | 220-240V | X-PERT | X-PERT

DOWNLIGHT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20.2 W	2700 K	1650 lm	0 4 8 - 3 4 2 0
	3000 K	1790 lm	
	4000 K	1920 lm	

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, reflector wide flood

James Good Coiffeur Lounge
Flums, CH – by Daniel Huber Architektur GmbH

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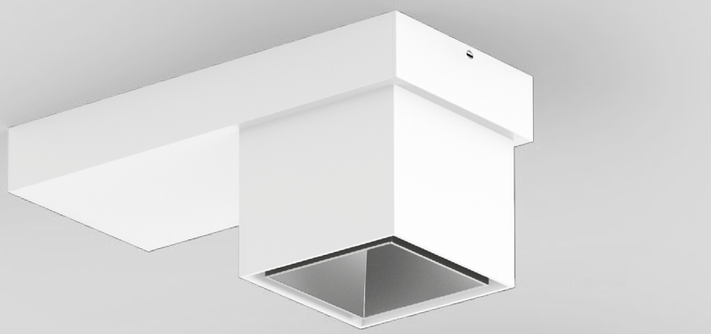


SASSO 60 base

ceiling

EN Cylindrical or square spotlight made of aluminium; light inset lacquered; housing powder coated; light inset rotatable and tiltable (cylindrical versions); choice of single lamp or double lamps (cylindrical versions); surface mounted housing in aluminium incl. converter; mounting plate with pre-assembled converter unit can be pre-mounted; luminaire housing can be attached without tools by interlock; precise radiation characteristic due to high quality lens system; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering; luminaire for through wiring

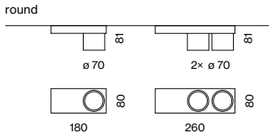
ES Proyector cilíndrico o cuadrado de aluminio; inserto lumin. pintado; carcasa con recubr. de polvo; elemento de luz girable e inclinable (variantes cilíndricas); con una o dos luces (variantes cilíndricas); carcasa de aluminio para montaje en superficie, incluido convertidor; placa de montaje con convertidor premontado / premontable; cuerpo luminoso insertable por enclavamiento y sin necesidad de herramienta; proyección precisa con óptica de lente de alta calidad; Chip on Board que proporciona una máxima eficiencia; no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática; luminaria para cableado pasante

Quickinfo

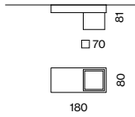
2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO round up to 90 lm/W
SASSO square up to 86 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

round

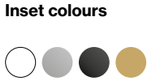


square



Housing colours

Inset colours



Light distributions

glare control
(UGR ≤ 16)

easy mounting;
no visible screws

CRI ≥ 95
2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE

spot 15°	S
medium 21°	M
flood 42°	F

Options on request

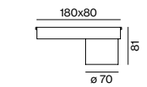
COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

LIGHT DISTRIBUTION

wallwasher
wallwasher / floor

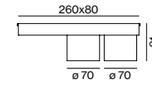
LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, reflector flood



SASSO 60 base round

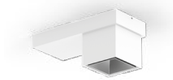
ADJUSTABLE 1 LAMP

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.7 W	2700 K	816 lm	0 4 8 - 3 1 3 0
	3000 K	882 lm	
	4000 K	948 lm	

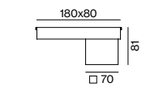


ADJUSTABLE 2 LAMPS

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21.6 W	2700 K	2 × 873 lm	0 4 8 - 3 1 4 0
	3000 K	2 × 921 lm	
	4000 K	2 × 977 lm	



SASSO 60 base square

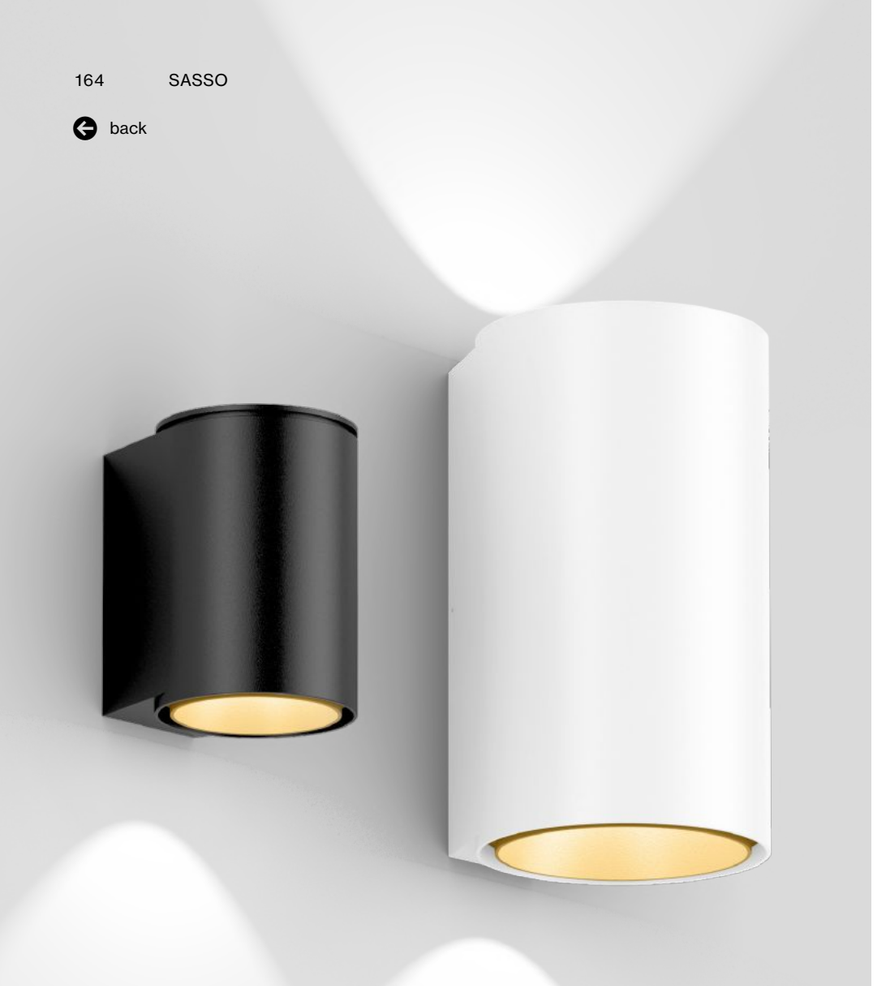


DOWNLIGHT 1 LAMP

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.7 W	2700 K	865 lm	0 4 8 - 3 0 3 0
	3000 K	936 lm	
	4000 K	1010 lm	

The Raum Bolzano, IT –
by bergundtal gmbh.

back



SASSO 60 / 100 round

wall

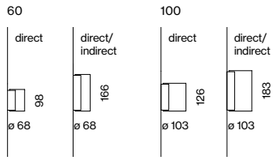
EN Cylindrical wall surface mounted luminaire made of aluminium, available in 2 sizes; light inset lacquered; housing powder coated; optionally symmetric direct or direct / indirect light distribution; homogeneous wall or ceiling illumination through uniform light distribution; precise radiation characteristic due to high quality lens system; installation of variant DIRECT optionally for floor or ceiling illumination; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering

ES Aplique de pared cilíndrico de aluminio para el montaje en superficie en 2 tamaños; inserto lumin. pintado; carcasa con recubr. de polvo; disponible con proyección simétrica directa o proyección directa/indirecta; iluminación homogénea de la pared o bien del techo mediante distribución uniforme de la luz; proyección precisa con óptica de lente de alta calidad; variante de montaje DIRECT disponible para la iluminación del suelo o el techo; Chip on Board que proporciona una máxima eficiencia; no sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
SASSO 60 up to 69 lm/W
SASSO 100 up to 61 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



Housing colours

Inset colours

Light distributions

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

HOUSING COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	1

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● matt silver (UGR ≤ 19)	4
● jet black RAL 9005 (UGR ≤ 16)	1
● gold dust RAL 260-M (UGR ≤ 19)	9

BEAM ANGLE

opal lens

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

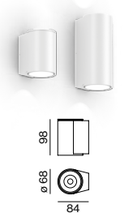
direct and direct / indirect illumination

high quality lens

easy mounting

CRI ≥ 95
2 SDCM

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, lens opal

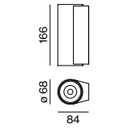


SASSO 60 round wall

CRI ≥ 90 · 2-SDCM · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.7 W	2700 K	647 lm	048-3150
	3000 K	683 lm	
	4000 K	724 lm	



DIRECT / INDIRECT

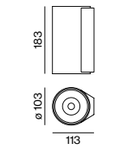
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20.4 W	2700 K	2 × 643 lm	048-3160
	3000 K	2 × 678 lm	
	4000 K	2 × 720 lm	

SASSO 100 round wall

CRI ≥ 90 · 2-SDCM · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
20.4 W	2700 K	1130 lm	048-3450
	3000 K	1180 lm	
	4000 K	1240 lm	

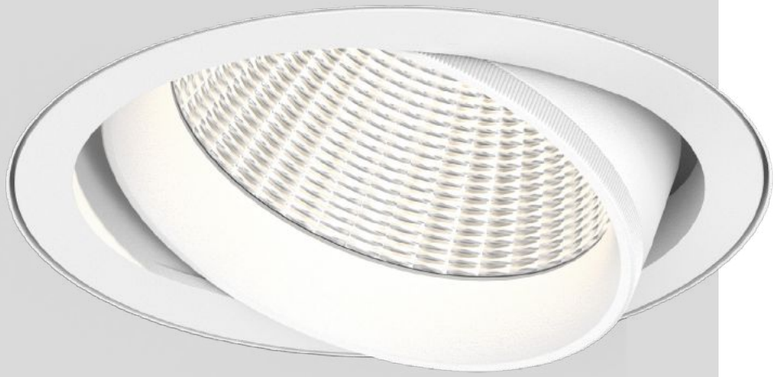


DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
41 W	2700 K	2 × 1130 lm	048-3460
	3000 K	2 × 1180 lm	
	4000 K	2 × 1240 lm	

MAM Competence Center
Großhöflein, AT –
by INNOCAD Architektur ZT

The exquisite choice



SASSO PRO

EN The high-quality reflector ensures a particularly even light pattern and professional glare control. Its exclusive design and high-quality appearance make SASSO the ideal spotlight on the shop floor. The spotlights can be rotated through 360° and can also be swivelled by up to 35° around the horizontal central axis. This means light can be flexibly redirected even after installation, depending on the shop concept. Thanks to its replaceable light insets, the spotlight can be installed quickly and without any tools using a ball-catch system. SASSO is available in various sizes, colours, and with optical accessories. For the light colours, you can choose between 2700 K, 3000 K, 4000 K, or the dynamic gradient Colour Warm Dimming and Tunable White versions.

ES Su magnífico reflector garantiza un patrón de luz muy uniforme y una prevención excelente del deslumbramiento. Su diseño exclusivo y acabados hacen de SASSO el proyector ideal para tiendas. Los spots pueden girarse 360° y además son capaces de inclinarse hasta 35° sobre el eje horizontal. De ese modo, la luz puede dirigirse de manera flexible adaptándola a la distribución específica del espacio. Gracias a sus elementos intercambiables, el spot puede montarse de un modo rápido y sin herramienta mediante un cierre a presión. SASSO está disponible en distintos tamaños y colores y con accesorios diversos. En cuanto a temperaturas de color, puede elegirse entre 2700 K, 3000 K y 4000 K o las variantes de Colour Warm Dimming y Tunable White.

Types

80 100

Mountings

trimless recessed | with trim recessed

Light distribution

spotlight

Precise light adjustment

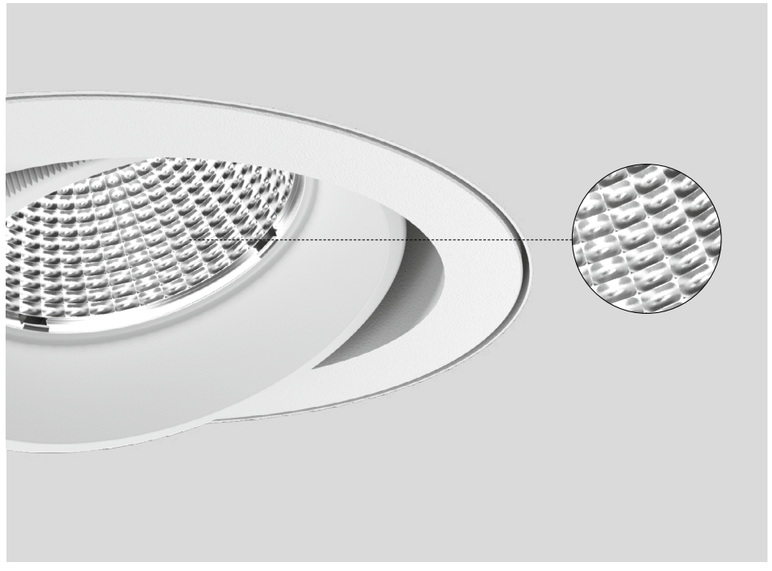
EN In addition to the 360° rotatability of all SASSO Round 80/100 variants, the adjustable version can be swivelled up to 35° around the horizontal central axis. This enables light to be directed precisely where it is needed.

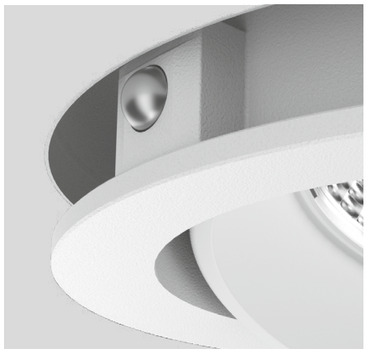
ES Todas las variantes de SASSO Round 80/100 ofrecen una rotación de 360°, y el modelo Adjustable puede inclinarse hasta 35° sobre el eje horizontal. Esto hace posible un direccionamiento de la luz aún más exacto justo allí donde se necesita.

Reflector inset

EN The high-quality reflector with spherical faceted optics ensures a uniform light pattern with significant glare control. SASSO is an attractive lighting solution in the premium shop area, thanks to its high-quality appearance.

ES El magnífico reflector con óptica facetada garantiza una luz uniforme y una buena protección contra el deslumbramiento. Gracias a su aspecto elegante, SASSO es también una solución de iluminación atractiva para tiendas de artículos de lujo.





Ball catch system

EN SASSO spots are easy to replace. The assembly is quick and entirely without tools, thanks to a ball catch system. The lighting thus always adapts flexibly to new requirements and circumstances.

ES Los spots SASSO pueden desmontarse fácilmente: el montaje es rápido y totalmente sin herramientas gracias a un sistema de cierre a presión. Esto hace que la iluminación pueda adaptarse siempre a los nuevos requisitos y circunstancias con total flexibilidad.

Optical accessories

EN Use a wide range of optical accessories to adapt spotlights for special applications. The optical light accessories can be attached or removed in one easy step and provide glare-free light at any point.

ES Utilice accesorios ópticos diversos para adaptar los proyectores a campos de aplicación especiales. Los accesorios ópticos de iluminación pueden ponerse y quitarse con total facilidad y garantizan una luz exenta de deslumbramiento.

CWD – Colour Warm Dimming

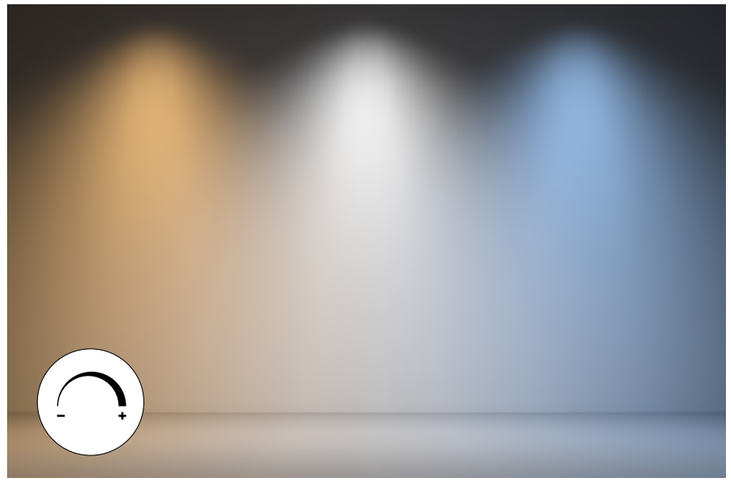
EN Warm light quality with reduced illuminance. Colour Warm Dimming reduces the light intensity while continuously changing the colour temperature between 3000 K and 1800 K. The function supports, for example, the change between cosy restaurant lighting during the day and a relaxing lighting mood in the evening.

ES Luz cálida combinada con una intensidad luminosa reducida: Colour Warm Dimming reduce la intensidad de la luz a la vez que regula la temperatura de color sin etapas entre 3000 K y 1800 K. Esta función hace posible, entre otras cosas, cambiar entre una iluminación acogedora de restaurante durante el día y un ambiente luminoso relajante por la noche.

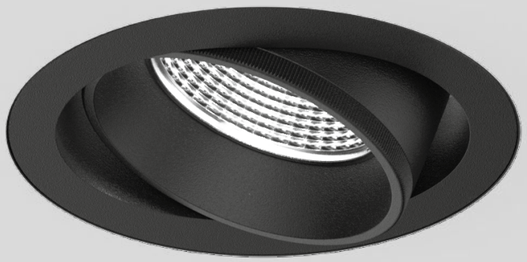
TW – Tunable White

EN Changes in the colour of light have a substantial effect on our mood. Tunable White allows the colour temperature to be continuously adjusted from 2700 K (warm light) to 6500 K (cool light) to dynamically adapt the lighting to the time of day or ambient brightness.

ES Los cambios en la temperatura de color de la luz tienen un efecto considerable en nuestro estado de ánimo. Tunable White hace posible una modificación continua de la temperatura de color desde 2700 K (luz cálida) hasta 6500 K (luz fría), con el fin de adaptar la iluminación de forma dinámica a la hora del día o a la luz del entorno.



back



SASSO PRO 80 flush / offset

recessed

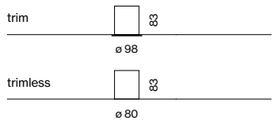
EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; surface powder coated; installation possible in different housings; light inset rotatable and tiltable; optionally with recessed lighting level; optical attachments as accessories; with optional high-quality lens system with precise radiation characteristic; and high-quality reflector with spherical facet effect design, precise radiation characteristics with different beam angles; installed and exchanged without tools; COB (Chip on Board) technology or high power LEDs for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering

ES Foco empotrable redondo de aluminio; instalación sin herramientas mediante kit de montaje con sistema de inserción de bola; superficie con recubrimiento de pintura en polvo; posibilidad de instalar distintwas carcasas; elemento de luz girable e inclinable; opcionalmente con nivel de luminaria retranqueado; elementos ópticos accesorios; opcional. con óptica de lente de alta calidad con proyección precisa; o reflector de alta calidad con óptica facetada esférica, proyección precisa con distintos ángulos de apertura; intercambiable sin herramienta; con tecnología COB (Chip on Board) o LEDs de alta potencia para proporcionar una máxima eficiencia; sin sombras múltiples; LEDs eficientes con una muy buena reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K, CWD
CRI ≥ 90, 3 SDCM
up to 93 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types



Colours

Light distributions

DiiA® standards
251, 252, 253

rotatable 360°
tiltable 35°

CWD
1800 – 2700 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
CWD 1800 – 2700 K	

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

LENS

super spot 6°

BEAM ANGLE

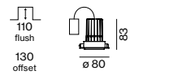
medium 27°	M
flood 37°	F

Options on request

MOUNTING SET

acoustic soft ceilings

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, reflector flood, flush mounting



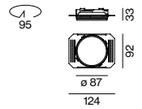
SASSO PRO 80

360° 35° | CRI ≥ 90 | DALI 1 ADDR. | 220-240 V | CB | X-PERT | X-PERT

SPOTLIGHT ADJUSTABLE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7.7 W	2700 K	353 lm	048-2310 1 V
super spot 6°	3000 K	379 lm	
	4000 K	408 lm	
8.3 W	2700 K	728 lm	048-2310 1 ▲
	3000 K	765 lm	
	4000 K	773 lm	
12.2 W	2700 K	1020 lm	048-2312 ▲
	3000 K	1060 lm	
	4000 K	1130 lm	

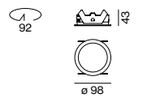
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6.5 W CWD 1800 – 2700 K	378 lm	048-2310E3 M



Mounting accessories

TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/25 mm

TYPE	ORDER CODE
flush	052-1921327
offset 17 mm	052-193132



ROUND MOUNTING SET WITH TRIM
for intermediate ceilings 5–25 mm

TYPE	ORDER CODE
flush	052-192232
offset 17 mm	052-193232

SQUARE MOUNTING SET WITH TRIM
for intermediate ceilings 5–25 mm

TYPE	ORDER CODE
flush	052-194231
offset 17 mm	052-195231

CONCRETE MOUNTING HOUSING

TYPE	L·W·H (mm)	ORDER CODE
exposed concrete ceilings*	229·227·160	060-00080
primed concrete ceilings**	ø240·400·130	052-1914320

*only for flush mounting **order mounting set separately

Optical accessories

TYPE	ORDER CODE
honeycomb louver	048-209131
linear prismatic lens	048-209231
snoot	048-209111
snoot with honeycomb louver	048-209121

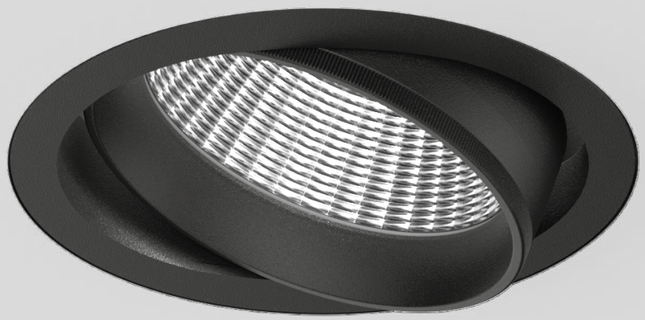
use only 1 optical accessory

Electrical accessories

THROUGH WIRING CONNECTION BOX

TYPE	L·W·H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-2531110
DALI cable ø 4 – 12 mm	105·58·30	005-2551110

back



SASSO PRO 100 flush / offset

recessed

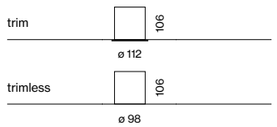
EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system; surface powder coated; installation possible in different housings; light inset rotatable and tiltable; optionally with recessed lighting level; optical attachments as accessories; high-quality reflector with spherical facet effect design, precise radiation characteristics with different beam angles; installed and exchanged without tools; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering

ES Proyector empotrable redondo de inyección en aluminio; instalación sin herramientas mediante kit de montaje con sistema inserción de bola; superficie con recubrimiento de pintura en polvo; posibilidad de instalar distintas carcasas; elemento de luz girable e inclinable; opcionalmente con nivel de la luminaria retranqueado; los accesorios ópticos como accesorios; bien reflector de alta calidad con óptica facetada esférica, precisa característica de emisión con diferentes ángulos de emisión; intercambiable sin herramienta; Chip on Board que proporciona una máxima eficiencia; no proporciona sombras múltiples; LEDS de eficiencia que proporcionan una alta reproducción cromática

Quickinfo

2700 K, 3000 K, 4000 K, CWD, TW
CRI ≥ 90, 3 SDCM
up to 104 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



Colours

Light distributions

DiiA® standards
251, 252, 253

rotatable 360°
tiltable 35°

CWD
2000 – 3000 K

TW 1800 – 3000 K &
2700 – 6500 K

Order options

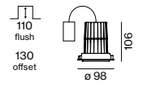
COLOUR TEMPERATURE	
2700 K	4
3000 K	5
4000 K	6
CWD 2000 – 3000 K	
TW 1800 – 3000 K	
TW 2700 – 6500 K	

CONTROL	
non DIM	1
DALI-2	3

MATERIAL COLOUR	
○ traffic white RAL 9016	7
● jet black RAL 9005	8

REFLECTOR	
spot 18° (not for HO version)	S
medium 24°	M
flood 36°	F
wide flood 55° (not for HO vers.)	W

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, reflector flood, flush mounting



SASSO PRO 100

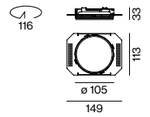
360° 35° | CRI ≥ 90 | DALI 1 ADDR. | 220-240V | CB | X-PERT | X-PERT

SPOTLIGHT ADJUSTABLE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14.5 W	2700 K	1350 lm	048-2410
	3000 K	1420 lm	
	4000 K	1490 lm	
26.5 W	2700 K	2160 lm	048-2412
	3000 K	2260 lm	
	4000 K	2380 lm	
27 W HO	2700 K	2580 lm	048-2413
	3000 K	2810 lm	
	4000 K	2840 lm	

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
14.7 W CWD 2000 – 3000 K	1030 lm	048-2411E3F
28.2 W TW 1800 – 3000 K	2020 lm	048-2412L3F
28.2 W TW 2700 – 6500 K	2170 lm	048-2412D3F

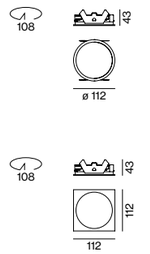
Mounting accessories



TRIMLESS MOUNTING SET

for installation in plasterboard ceilings 12.5/15/25 mm

TYPE	ORDER CODE
flush	052-1921447
offset 17 mm	052-1931447



ROUND MOUNTING SET WITH TRIM

for intermediate ceilings 5–25 mm

TYPE	ORDER CODE
flush	052-1922447
offset 17 mm	052-1932447

SQUARE MOUNTING SET WITH TRIM

for intermediate ceilings 5–25 mm

TYPE	ORDER CODE
flush	052-1942417
offset 17 mm	052-1952417

CONCRETE MOUNTING HOUSING

for <15 W version

TYPE	L-W-H (mm)	ORDER CODE
exposed concrete ceilings*	229·227·160	052-1913410
primed concrete ceilings**	ø240·400·130	052-1914420

*only for flush mounting **order mounting set separately

Optical accessories

TYPE	ORDER CODE
honeycomb louver	048-2191317
linear prismatic lens	048-2192317
snoot	048-2191117
snoot with honeycomb louver	048-2191217

use only 1 optical accessory

Electrical accessories

THROUGH WIRING CONNECTION BOX

TYPE	L-W-H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-2531110
DALI cable ø 4 – 12 mm	105·58·30	005-2551110

Oberpollinger | The KaDeWe Group
Munich, DE – by Licht Kunst Licht AG
including lighting design

Oberpollinger | The KaDeWe Group
Munich, DE – by Licht Kunst Licht AG
including lighting design

Presence as desired

MOVE IN

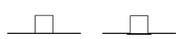
EN This luminaire's trump card is mobility. MOVE IN's appearance can be easily adapted without tools at any time because the spots are height-adjustable. New and exciting ceiling pictures are created by combining round or square with flush or protruding spots. The spots are optimally glare-free thanks to the recessed light point plane. MOVE IN flex's spotlight head can be rotated 360° and swivelled 90°. All spots are characterised by an excellent colour rendering value (CRI ≥ 90) and high-quality reflector. The light colours 2700 K and 3000 K create an atmospheric lighting effect.

ES La característica más destacada de esta luminaria es su flexibilidad. MOVE IN permite adaptarse en cualquier momento, ya que la altura de los proyectores puede regularse fácilmente y sin necesidad de herramientas. La combinación de proyectores redondos y cuadrados, situados a ras o salientes, genera patrones de techo únicos que proporcionan efectos cambiantes según las necesidades del cliente y del espacio. El plano de punto de luz retranqueado hace que los proyectores eviten el deslumbramiento. El cabezal del proyector de MOVE IN flex puede girarse 355° e inclinarse 90°. Además, todos los spots se caracterizan por ofrecer un excelente índice de reproducción cromática (CRI ≥ 90) y el reflector de alta calidad. Para lograr un efecto de iluminación ambiental agradable y relajante, la temperatura de color de 3000 K puede completarse con la función Colour Warm Dimming opcional.

Types

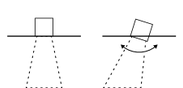
round 32 | round 45 | square 45

Mounting



trimless recessed | with trim recessed

Light distributions

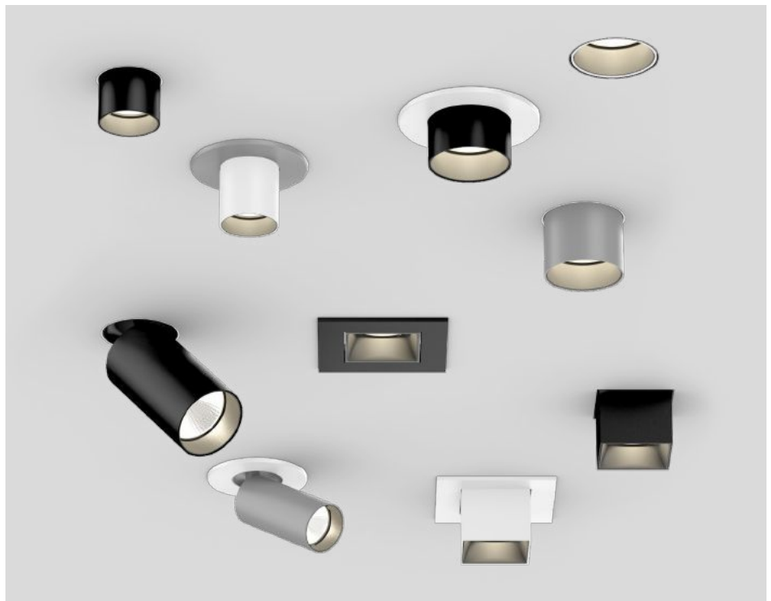


downlight | spotlight

Variety

EN MOVE IN not only provides light, but also designs the ceiling. Round, angular, flush-mounted, and surface-mounted spots can be combined individually and always form new, exciting ceiling arrangements.

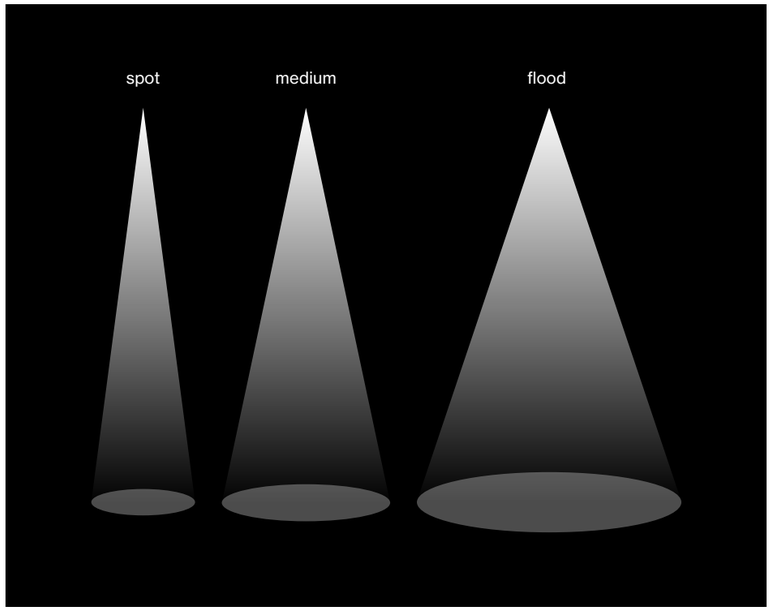
ES MOVE IN no sólo proporciona luz, sino que también diseña el techo. Los focos redondos, angulares, empotrados y de superficie pueden combinarse individualmente y formar siempre nuevas y emocionantes imágenes de techo.



Glare control & colour rendering

EN Thanks to the recessed light spot level, MOVE IN spots provide optimum glare control. As the high-quality reflector optics have very good colour rendering values (CRI ≥ 90), objects are rendered almost true to colour.

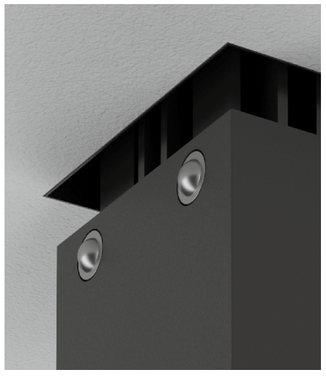
ES Gracias al nivel del punto de luz empotrado, los puntos MOVE IN no deslumbran. Dado que el reflector de alta calidad tiene muy buenos valores de reproducción cromática (CRI ≥ 90) Los objetos se reproducen con una alta calidad cromática.



Light distribution

EN Thanks to different beam angles, MOVE IN is suitable for different areas of application: from narrow-beam spot for precise and targeted lighting, to medium and flood for accentuated basic brightness.

ES Gracias a los diferentes ángulos del haz de luz, MOVE IN es adecuado para diferentes áreas de aplicación: desde el spot de haz estrecho para una iluminación precisa hasta el medio y el flood para una luminosidad básica ó acentuada.



Ball catch system

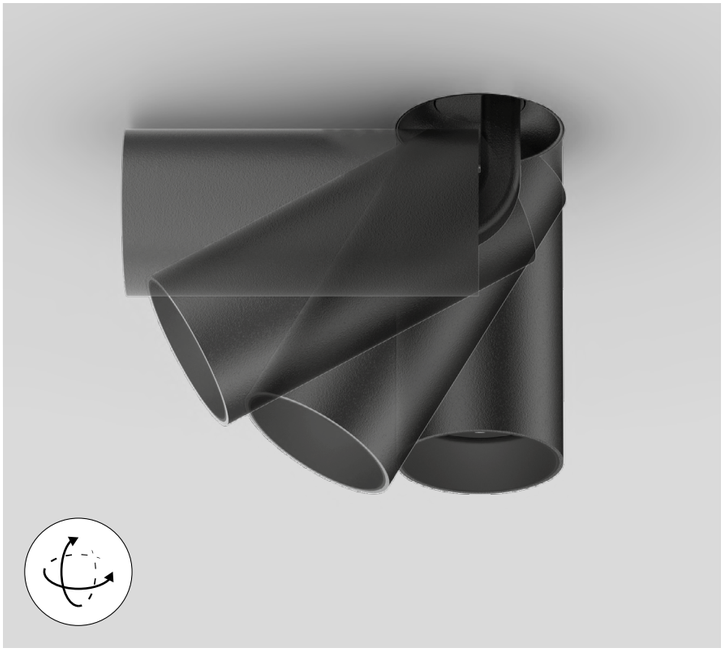
EN Mounting and replacing MOVE IN spots is very easy. The spots are fixed in the system by a ball catch system. This in turn can be installed in three different positions – for flexible adaptation of the lighting to changing requirements and conditions.

ES El montaje y la sustitución de los puntos de luz MOVE IN es muy fácil. Los puntos se fijan en el sistema mediante un sistema de encaje de bolas. Éste, a su vez, puede instalarse en tres posiciones diferentes. Para una adaptación flexible de la iluminación a las necesidades y condiciones cambiantes.

Precise light adjustment

EN MOVE IN flex offers the greatest possible flexibility. The spotlight can not only be rotated 360°, but also swivelled 90°. This allows the light to be directed exactly where it is needed.

ES MOVE IN flex ofrece la mayor flexibilidad posible. El foco no sólo puede girar 360°, sino que también se puede girar 90°. Esto permite dirigir la luz de la luz exactamente al punto en el que se necesita.



back

MOVE IN round

recessed

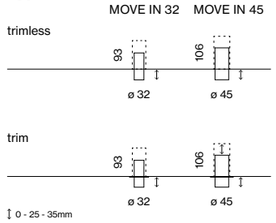
EN Round spotlight element in aluminium, available in 2 sizes; powder coated; installation without tools in mounting set (trimless or with trim) with ball catch system; special mounting tool for easy installation of the trimless housing available as an accessory; spotlight element height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristic; good glare reduction due to recessed light point plane; optical attachments as accessories

ES Proyector de aluminio redondo en 2 tamaños; recubierto de polvo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; herramienta de montaje especial para la sencilla instalación de la carcasa sin bordes disponible como accesorio; proyector altura ajustable sin herramienta: enrasado al techo, sobresaliente 25 mm o 35 mm; Chip on Board que proporciona una máxima eficiencia; sin formación de sombras; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; reflector de alta calidad vaporizado de aluminio con revestimiento de facetas esféricas; característica proyección precisa; buen control del deslumbramiento mediante plano de punto de luz retranqueado; los accesorios ópticos como accesorios

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
MOVE IN 32 up to 86 lm / W
MOVE IN 45 up to 95 lm / W
L80 @ 50 000 h
non DIM, DALI-2

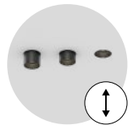
Types



Inset colours

Housing colours

Light distributions



tool-free height adjustment

trimless installation in plasterboard

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

INSET COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

HOUSING COLOUR

○ traffic white RAL 9016	7
● silver-grey	G
● jet black RAL 9005	8

BEAM ANGLE MOVE IN 32 / 45

spot 18° / 14°	S
medium 23° / 24°	M
flood 37° / 39°	F

Options on request

MOUNTING HOUSING

special colours

POWER SUPPLY

DIM 1–10V

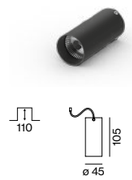
INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, reflector flood 2700 K -6%

MOVE IN 32 round

CRI ≥90 | DALI 1 ADDR. | 250 mA | X-PERT

SPOTLIGHT incl. connection cable 600 mm

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.8 W 36 Vf 250 mA	755 lm	063-811113



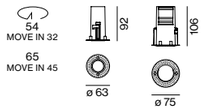
MOVE IN 45 round

CRI ≥90 | DALI 1 ADDR. | 400 mA | X-PERT

SPOTLIGHT incl. connection cable 600 mm

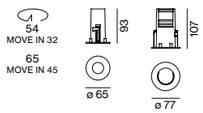
INSET POWER	LUMINOUS FLUX	ORDER CODE
12.8 W 37 Vf 350 mA	spot 1010 lm	063-812113 S
13.5 W 36 Vf 400 mA	1280 lm	063-812113

Mounting accessories



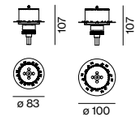
MOUNTING HOUSING TRIMLESS
for installation in plasterboard ceilings 9–25 mm

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	63·93	063-8811117
MOVE IN 45	75·106	063-8812117



MOUNTING HOUSING WITH TRIM
for installation in ceilings from 2–25 mm

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	65·93	063-8821111
MOVE IN 45	77·107	063-8822111

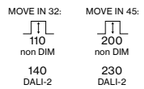


SPECIAL MOUNTING TOOL

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	83·9	063-8911110
MOVE IN 45	100·9	063-8912110

necessary to install mounting housing trimless

Electrical accessories



POWER SUPPLY 220–240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
250 mA | non DIM	η 80 %	65·39·20	002-90742
250 mA | DALI-2	η 82 %	147·33·23	002-90743
350 mA | non DIM	η 85 %	180·30·21	002-90722
350 mA | DALI-2	η 83 %	210·30·21	002-90723
400 mA | non DIM	η 88 %	180·30·21	002-90724
400 mA | DALI-2	η 84 %	210·30·21	002-90725

MOVE IN 32 trimless revision opening required

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42W | 48V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

for more details and components see page Seite 981

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	30·3	007-1965168
MOVE IN 45	42·3	007-1965188

back

MOVE IN flex

recessed

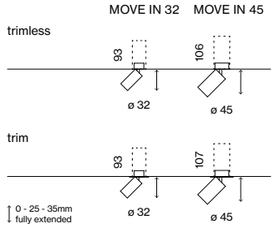
EN Round spotlight element in aluminium, available in 2 sizes; powder coated; installation without tools in mounting set (trimless or with trim) with ball catch system; special mounting tool for easy installation of the trimless housing available as an accessory; spotlight element height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; spotlight head rotates 360° and tilts 90°; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristic; good glare reduction due to recessed light point plane; optical attachments as accessories

ES Proyector de aluminio redondo en 2 tamaños; recubierto de polvo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; herramienta de montaje especial para la sencilla instalación de la carcasa sin bordes disponible como accesorio; proyector altura ajustable sin herramienta: enrasado al techo, sobresaliente 25 mm o 35 mm; cabezal de proyector giratorio de 360° y orientable 90°; Chip on Board que proporciona una máxima eficiencia; sin formación de sombras; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; reflector de alta calidad vaporizado de aluminio con revestimiento de facetas esféricas; característica proyección precisa; buen control del deslumbramiento mediante plano de punto de luz retranqueado; los accesorios ópticos como accesorios

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
MOVE IN 32 up to 86 lm / W
MOVE IN 45 up to 95 lm / W
L80 @ 50 000 h
non DIM, DALI-2

Types



Inset colours

Housing colours

Light distributions

spot med. flood

tool-free height adjustment, rotatable & tiltable

trimless installation in plasterboard

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

INSET COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

HOUSING COLOUR

○ traffic white RAL 9016	7
● silver-grey	G
● jet black RAL 9005	8

BEAM ANGLE MOVE IN 32 / 45

spot 18° / 14°	S
medium 23° / 24°	M
flood 37° / 39°	F

Options on request

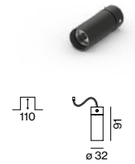
MOUNTING HOUSING

special colours

POWER SUPPLY

DIM 1–10V

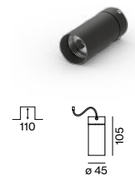
INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, reflector flood 2700 K -6 %



MOVE IN 32 flex

SPOTLIGHT incl. connection cable 600 mm

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.8 W 36 Vf 250 mA	755 lm	063-821 1 :: 1 ◪ ▲

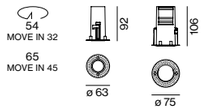


MOVE IN 45 flex

SPOTLIGHT incl. connection cable 600 mm

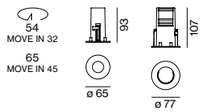
INSET POWER	LUMINOUS FLUX	ORDER CODE
12.8 W 37 Vf 350 mA	spot 1010 lm	063-822 1 :: 1 ◪ S
13.5 W 36 Vf 400 mA	1280 lm	063-822 1 :: 1 ◪ ▲

Mounting accessories



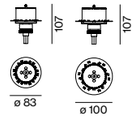
MOUNTING HOUSING TRIMLESS
for installation in plasterboard ceilings 9–25 mm

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	63·93	063-8811117
MOVE IN 45	75·106	063-8812117



MOUNTING HOUSING WITH TRIM
for installation in ceilings from 2–25 mm

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	65·93	063-8821111 ■
MOVE IN 45	77·107	063-8822111 ■

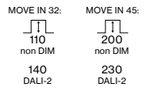


SPECIAL MOUNTING TOOL

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 32	83·9	063-8911110
MOVE IN 45	100·9	063-8912110

necessary to install mounting housing trimless

Electrical accessories



POWER SUPPLY 220–240 V AC, 50-60 Hz, ▣ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
250 mA | non DIM	η 80 %	65·39·20	002-90742
250 mA | DALI-2	η 82 %	147·33·23	002-90743
350 mA | non DIM	η 85 %	180·30·21	002-90722
350 mA | DALI-2	η 83 %	210·30·21	002-90723
400 mA | non DIM	η 88 %	180·30·21	002-90724
400 mA | DALI-2	η 84 %	210·30·21	002-90725

MOVE IN 32 trimless revision opening required

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

for more details and components see page Seite 981

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN flex 32	30·3	007-1965168
MOVE IN flex 45	42·3	007-1965188

Hargassner Energy World Linz, AT –
by architekten berger.hofmann og & tech3
Projektentwicklung GmbH with lighting design
by AREA C.I.DESIGN GmbH

back

MOVE IN 45 square

recessed

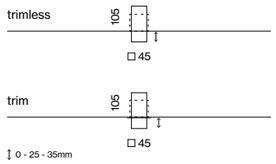
EN Square spotlight element in aluminium; powder coated; installation without tools in mounting set (trimless or with trim) with ball catch system; special mounting tool for easy installation of the trimless housing available as an accessory; spotlight element height adjustable without tools: flush with the ceiling, or extended 25 mm or 35 mm; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristic; good glare reduction due to recessed light point plane; optical attachments as accessories

ES Proyector de aluminio en forma cuadrada; recubierto de polvo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; herramienta de montaje especial para la sencilla instalación de la carcasa sin bordes disponible como accesorio; proyector altura ajustable sin herramienta: enrasado al techo, sobresaliente 25 mm o 35 mm; Chip on Board que proporciona una máxima eficiencia; sin formación de sombras; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; reflector de alta calidad vaporizado de aluminio con revestimiento de facetas esféricas; característica proyección precisa; buen control del deslumbramiento mediante plano de punto de luz retranqueado; los accesorios ópticos como accesorios

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
up to 95 lm / W
L80 @ 50 000 h
non DIM, DALI-2

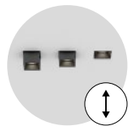
Types



Inset colours

Housing colours

Light distributions



tool-free height adjustment

trimless installation in plasterboard

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

INSET COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

HOUSING COLOUR

○ traffic white RAL 9016	7
● silver-grey	G
● jet black RAL 9005	8

BEAM ANGLE

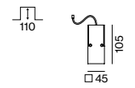
spot 14°	S
medium 24°	M
flood 39°	F

Options on request

MOUNTING HOUSING
special colours

POWER SUPPLY
DIM 1–10V

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, reflector flood 2700 K -6 %



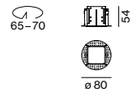
MOVE IN 45 square

CRI ≥90 · DALI 1 ADDR. · 400 mA · X-PERT

SPOTLIGHT incl. connection cable 600 mm

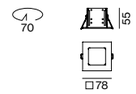
INSET POWER	LUMINOUS FLUX	ORDER CODE
12.8 W 37 Vf 350 mA	spot 1010 lm	063-842 1 ⁘ 1 ◪ S
13.5 W 36 Vf 400 mA	1280 lm	063-842 1 ⁘ 1 ◪ ▲

Mounting accessories



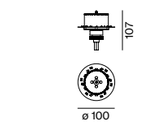
MOUNTING HOUSING TRIMLESS
for installation in plasterboard ceilings 9–25 mm

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 45	80·54	063-8832117



MOUNTING HOUSING WITH TRIM
for installation in ceilings from 2–25 mm

TYPE	L·W·H (mm)	ORDER CODE
MOVE IN 45	78·78·55	063-884211 ■



SPECIAL MOUNTING TOOL

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 45	100·9	063-8912110

necessary to install mounting housing trimless

Electrical accessories

POWER SUPPLY 220–240 V AC, 50-60 Hz, ▣ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
350 mA | non DIM	η 85 %	180·30·21	002-90722
350 mA | DALI-2	η 83 %	210·30·21	002-90723
400 mA | non DIM	η 88 %	180·30·21	002-90724
400 mA | DALI-2	η 84 %	210·30·21	002-90725

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

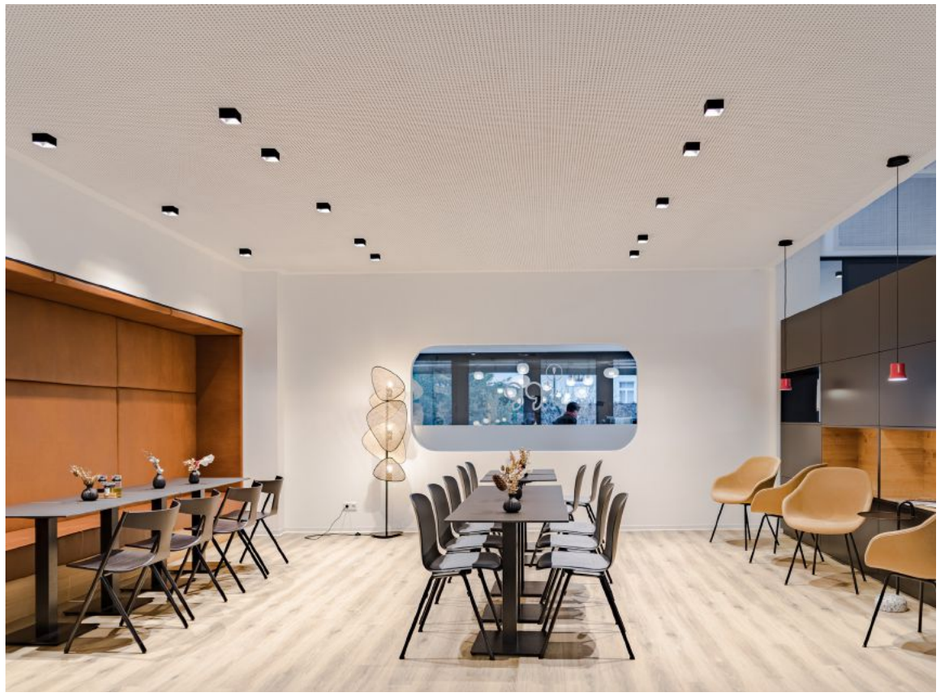
for more details and components see page Seite 981

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
MOVE IN 45	42·3	007-1965188

Lampenwelt GmbH Schlitz, DE –
lighting design by Lampenwelt GmbH



Add a little twist

TWIST

EN A round recessed spotlight, ideal for retail. TWIST can be completely recessed into the ceiling or swivelled out and aligned, either bringing it to the fore or making it take a step back. Thanks to its 360° rotation and 45° tilt, it is highly flexible and adapts to evolving conditions in shops. The high-quality reflector produces precise beam characteristics with three different beam angles. TWIST is simply mounted without tools using a ball catch system. Excellent colour rendering value (CRI ≥ 90) at 2700 K, 3000 K, or 4000 K ensures outstanding product presentation.

ES Proyector empotrable ideal para el comercio. TWIST puede ser visible o mantenerse en segundo plano: este proyector puede ocultarse por completo en el techo o extraerse hacia fuera y orientarse según las preferencias. Sus posibilidades de giro a 360° y de inclinación a 45° hacen que sea extremadamente flexible y se adapte perfectamente a nuevas necesidades en tiendas. El reflector de alta calidad hace posible una proyección precisa con tres ángulos de apertura distintos. TWIST se monta fácilmente sin herramientas mediante un cierre a presión. Un elevado índice de reproducción cromática (CRI ≥ 90) a 2700 K, 3000 K o 4000 K garantiza una excelente calidad cromática.

Types

100
1 lamp

100
2 lamps

Mountings

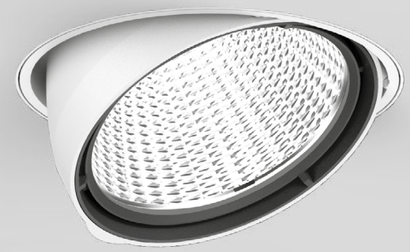
trimless
recessed

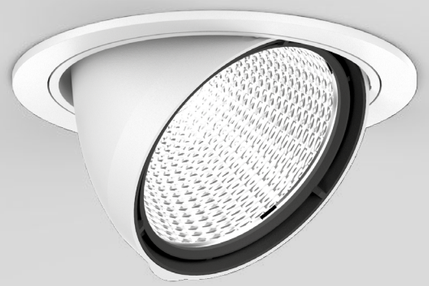
with trim
recessed

Light distribution

spotlight

back





TWIST 100

recessed

EN Round recessed spotlight in die-cast aluminium; powder coated; installation without tools in mounting set (trimless or with trim) with ball catch system; 360° rotatable and 45° tiltable outward; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; high quality reflector with spherical facet finish; precise radiation characteristic; optical attachments as accessories; optical attachments can be combined

ES Proyector empotrable redondo de inyección en aluminio; recubierto de polvo; instalación sin herramientas mediante kit de montaje (con o sin marco) con sistema inserción de bola; giratorio 360° y orientable 45°; Chip on Board que proporciona una máxima eficiencia; sin formación de sombras; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; reflector alta calidad con óptica de bisel esférica; característica proyección precisa; los accesorios ópticos como accesorios; accesorios ópticos combinables entre sí

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 96 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

Colours

Light distributions

spot med. flood

2 lamps
mounting set

combine 2 optical accessories

360° rotatable, 45° tiltable

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM
DALI-2

INSET COLOUR

○ traffic white RAL 9016 (UGR ≤ 22)	7
● jet black RAL 9005 (UGR ≤ 16)	8

BEAM ANGLE

spot 17°	S
medium 28°	M
flood 38°	F

Options on request

COLOUR TEMPERATURE

2700 K

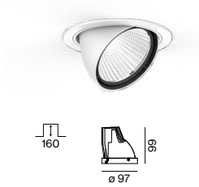
INSET COLOUR

grey aluminium RAL 9007

MOUNTING SET COLOUR

grey aluminium RAL 9007

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 4000 K, CRI ≥ 90, colour white, reflector medium 3000 K -7 %



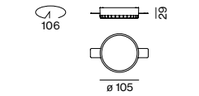
TWIST 100 recessed

360° 45° | CRI ≥ 90 | DALI 1 ADDR. | 950 mA | X-PERT | X-PERT

SPOTLIGHT ADJUSTABLE

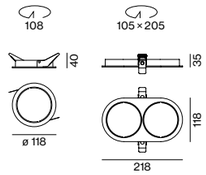
INSET POWER	LUMINOUS FLUX	ORDER CODE
34 W	3250 lm	048-1120 ⁘ 1 ◪ ▲

Mounting accessories



TRIMLESS MOUNTING SET
for installation in plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ traffic white RAL 9016	048-2796117



MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

TYPE	COLOUR	ORDER CODE
1 lamp	○ traffic white RAL9016	048-2796317
	● jet black RAL 9005	048-2796318
2 lamps*	○ traffic white RAL9016	048-2798317
	● jet black RAL 9005	048-2798318

*do not use in combination with optical acccessories

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ▣ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
950 mA | non DIM	η 89 %	136·43·30	002-90781
950 mA | DALI-2	η 85 %	143·43·30	002-90782

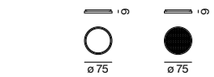
THROUGH WIRING CONNECTION BOX

TYPE	L·W·H (mm)	ORDER CODE
non DIM cable ø 4 – 12 mm	105·58·30	005-2531110
DALI cable ø 4 – 12 mm	105·58·30	005-2551110

Optical accessories

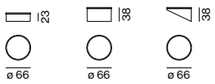
LENS AND HONEYCOMB LOUVER

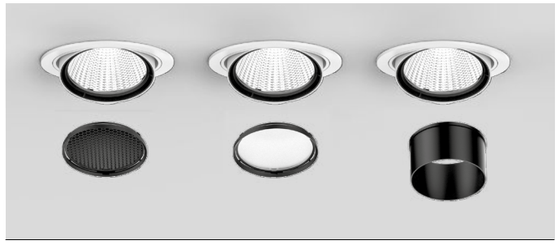
TYPE	Ø·H (mm)	ORDER CODE
linear prismatic lens	75·9	080-6402110P
honeycomb louver	75·9	080-6401118



SNOOT

TYPE	Ø·H (mm)	ORDER CODE
short	66·23	080-6403118
medium	66·38	080-6403218
angle	66·38	080-6403318





use only one optical accessory

Kastner & Öhler, Kaufhaus Tyrol Innsbruck, AT –
by DIOMA AG / WHIR3 / K&Ö Bauabteilung with
lighting design by VEDDER.LICHTMANAGEMENT

Always and anywhere

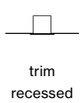
SPADO

EN One design, two strengths. SPADO's version with a symmetrical beam is used as a downlight. The version with an asymmetrical beam shines as a wallwasher. The recessed light plane creates a discreet overall impression. It makes the chrome-polished reflector, despite its intense illumination and good colour rendering (CRI ≥ 80), outstandingly glare-free and screen-friendly. SPADO spotlights are simply mounted without tools and are also suitable for wet rooms with its IP 44 protection class. For the light colours, you can choose between 2700 K, 3000 K or 4000 K.

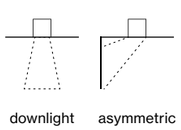
ES Un diseño, dos aplicaciones. SPADO se puede utilizar como downlight en su variante de proyección simétrica, a la vez que su variante de proyección asimétrica es un bañador de pared. Al ser un aparato empotrado ofrece una impresión general discreta y su reflector cromado, al contrario de lo que se podría pensar teniendo en cuenta sus altísimas prestaciones y gran reproducción cromática (CRI > 80) ofrece un deslumbramiento nulo. Los SPADO se montan fácilmente sin herramientas y son aptos para salas en las que es necesaria protección contra polvo y entrada de agua en las luminarias gracias a su grado de protección IP44. En cuanto a temperatura de color, se puede elegir entre 2700 K, 3000 K o 4000 K.

Types

Mounting



Light distributions



back

SPADO 100 / 150

recessed

EN Round or square luminaire housing in die-cast aluminium; with trim; suitable for ceiling thickness of 2-25 mm; surface powder coated; installation without tools using snap spring closure; reflector made of polycarbonate, polished chrome; choice of symmetric or asymmetric (only SPADO 150 round trim) radiation characteristic; lighting level recessed; energy-efficient LEDs with very good colour rendering; external converter for ceiling insertion, for through-wiring suitable; operating device suitable for use with a central battery system

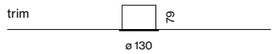
ES Cuerpo de lámpara redondo o cuadrado de fundición de aluminio; con marco; para instalación en techos de 2-25 mm de grosor; superficie con recubrimiento de pintura en polvo; sencilla instalación sin herramientas mediante un enganche elástico; reflector de policarbonato, acabado en cromo pulido; opcionalmente con característica de emisión simétrica o asimétrica (solo SPADO 150 round trim) ; lámpara retrasada; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; convertidor externo para inserción en el techo, cableado continuo apropiado; unidad de control apropiada para el funcionamiento en un sistema de batería central

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 118 lm/W
L90 @ 50 000 h
non DIM, DALI-2
↧ IP44 / ↥ IP20

Types

SPADO 100



SPADO 150 asymmetric

Colours

Light distributions

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

Options on request

COLOUR TEMPERATURE

2700 K

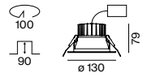
MOUNTING SET

acoustic soft ceilings

only for SPADO 100 round trim

SPADO 100 round trim

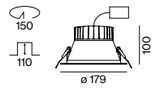
DOWNLINGHT (↧ IP44 / ↥ IP20)



SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
9.3 W	990 lm	049-3111 ⁘ ⇳ ◪ O

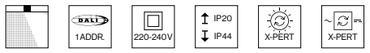
SPADO 150 round trim

DOWNLINGHT (↧ IP44 / ↥ IP20)

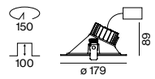


SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
16.4 W UGR ≤ 19	2350 lm	049-3121 ⁘ ⇳ ◪ O
27.5 W	3130 lm	049-3123 ⁘ ⇳ ◪ O

SPADO 150 round trim



WALLWASHER ASYMMETRIC (↧ IP44 / ↥ IP20)



SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
10.7 W	944 lm	049-3122 ⁘ ⇳ ◪ A

SPADO 150 square trim

DOWNLINGHT (↧ IP44 / ↥ IP20)

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
16.4 W UGR ≤ 19	2380 lm	049-3151 ⁘ ⇳ 7 O
27.5 W	3170 lm	049-3152 ⁘ ⇳ 7 O

Mounting accessories

EXPOSED CONCRETE CEILINGS

TYPE	L·W·H (mm)	ORDER CODE
SPADO 150 round	295·295·160	049-3191210
SPADO 150 square	400·260·160	049-3192210

PRIMED CONCRETE CEILINGS

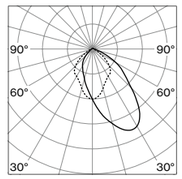
TYPE	Ø·H (mm)	ORDER CODE
SPADO 150 round / square	307·170	049-3191410

DiiA® standards
251, 252, 253

glare control
(UGR ≤ 19)

splash water
protection (IP44)

Light distribution



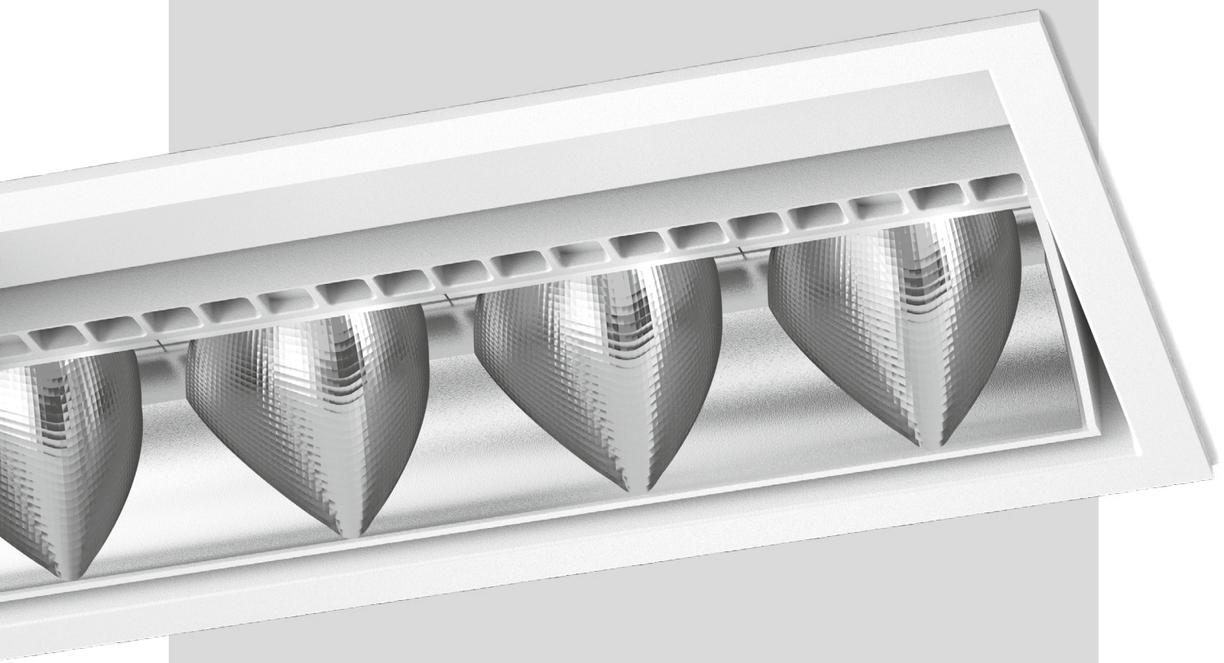
SPADO 150 asymmetric

LUMINOUS FLUX value calculated for 4000 K, colour white, reflector chrome 3000 K -5 %

moovel group
Stuttgart, DE –
by FURCH GESTALTUNG +
PRODUKTION GMBH

Sparkasse
Rüsselsheim, DE –
by Zaeske und Partner
Architekten BDA

High-precision shelf lighting

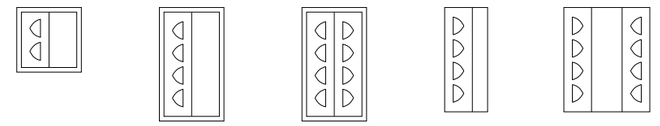


SQUADRO

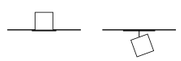
EN SQUADRO is a track-mounted and recessed spotlight for the retail sector that bundles six essential retail requirements in one luminaire. Free-form reflectors with faceted optics make a polished presentation of goods possible. These reflectors direct the light precisely into shelves or aisle zones. Directed light creates a modelling effect on the products and delivers attractive staging. Swivelling light modules illuminate specific shelf levels or billboards while providing plenty of basic lighting. SQUADRO spotlights are completely glare-free, both transversely and longitudinally. They are highly efficient in their energy balance with an efficiency of over 90 %.

ES SQUADRO es un downlight empotrable y proyector de carril para el comercio que proporciona seis soluciones técnicas distintas en una sola luminaria. La presentación brillante de artículos se consigue mediante reflectores de superficie sofisticados con óptica facetada: estos dirigen la luz con gran precisión a los estantes y zonas de paso. La luz dirigida crea un efecto de modelado en los artículos, lográndose así una atractiva puesta en escena. Unos módulos de luz orientables iluminan con precisión niveles de estantes o paredes de carteles, a la vez que ofrecen iluminación general. Los proyectores SQUADRO están completamente exentos de deslumbramiento transversal y longitudinal, siendo además ultraeficientes en su balance energético con un rendimiento superior al 90 %.

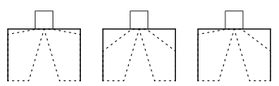
Types



Mountings



Light distributions



6-in-1 Lighting solution

EN SQUADRO combines all the advantages of traditional retail lighting solutions in one luminaire. The spotlights are transversely and longitudinally glare-free and direct the light precisely onto the goods – into the heights and depths of the shelves. This achieves a strong product presentation. Thanks to proper light distribution, no additional light source is required for basic lighting.

ES SQUADRO combina todas las ventajas de las soluciones de iluminación clásicas para tiendas en una sola luminaria. Los proyectores exentos de deslumbramiento transversal y longitudinal dirigen la luz a los artículos, abarcando toda la altura y profundidad de las estanterías. Esto garantiza una presentación de productos eficaz. Su óptima distribución luminosa permite renunciar al uso de fuentes de luz adicionales para la iluminación general.

1 EN The highest illuminance is on the upper two presentation levels.

ES La máxima intensidad luminosa se obtiene en los dos planos de presentación superiores.

2 EN Highlights on premium goods create a brilliant staging.

ES Ópticas de una altísima calidad lumínica dan vida a toda la estantería.

3 EN Directed light creates accents on billboards and subjects.

ES Una luz bien dirigida crea acentos en paneles publicitarios y reclamos.

4 EN The high depth effect gives food high colour contrasts and attractiveness.

ES El gran efecto de profundidad dota a los alimentos de contrastes de color elevados y zonas puntuales de mayor brillo.

5 EN Due to longitudinal glare control, the lighting system is barely perceptible to the customer in the direction of the aisle.

ES Ausencia de deslumbramiento = Comfort visual para el cliente.

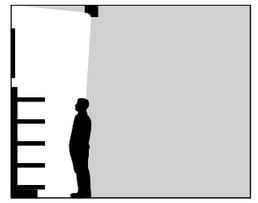
6 EN Transverse glare control additionally prevents glare from any viewing direction.

ES Además, la exención de deslumbramiento transversal impide que el cliente se deslumbre desde cualquier dirección.

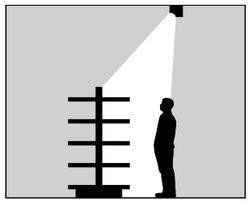
Five versions

EN SQUADRO's five variants with diverse beam characteristics respond to different shop layouts and requirements. Perfect alignment ensures that minimal luminaires radiate as much light as possible onto the merchandise. SQUADRO adapts to the conditions and illuminates selectively and without scatter loss. All goods are thus attractively presented regardless of the size or interior design of the shop.

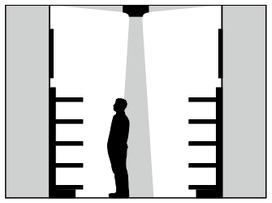
ES SQUADRO se adapta a los diversos requisitos y distribuciones de las tiendas con sus cinco variantes dotadas de distintos modos de proyección. La orientación perfecta garantiza que un pequeño número de luminarias puedan proyectar la máxima luz posible sobre los artículos. SQUADRO se adapta a las necesidades específicas del espacio, ofreciendo una iluminación puntual y sin pérdidas por dispersión. Así, todos los artículos pueden presentarse de un modo atractivo, independientemente del tamaño o de la arquitectura interior de la tienda.



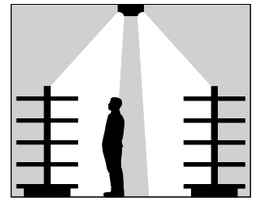
Wall Floor (single-side)



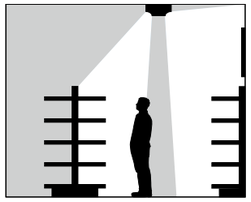
Shelf Floor (single-side)



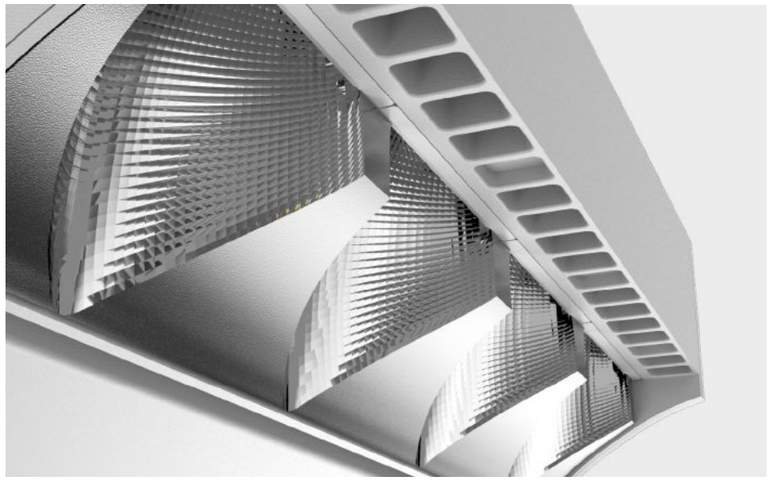
Wall Floor (double-side)



Shelf Floor (double-side)



Shelf / Wall Floor



Unique reflector technology

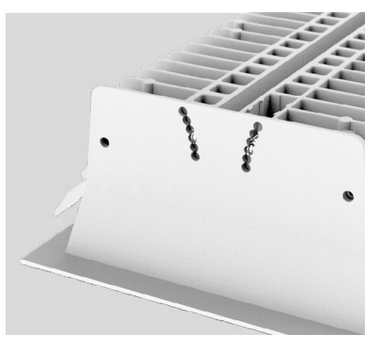
EN Custom free-form reflectors ensure high-precision light control; each SQUADRO achieves an efficiency of over 90 per cent. The spotlights enjoy optimum glare control through the curved shape and secondary reflector technology.

ES Los reflectors proporcionan un direccionamiento de la luz extremadamente preciso. Cada SQUADRO ofrece un rendimiento luminoso superior al 90 por ciento. La forma y la tecnología de reflectores de los proyectores garantizan una óptima prevención del deslumbramiento.

Effective lighting

EN Branches of the same chain often differ in their shop architecture. Shelf heights and aisle widths may vary from one location to another. The solution is step-adjustable light modules. The elements can be tilted from -15° to +20°. Each module can be tilted asymmetrically, allowing precise alignment and thus optimum light control.

ES Cada tienda cuenta con un tamaño, distribución y una altura de techo distinta. Las alturas de los estantes y las anchuras de los pasillos pueden variar en función de la ubicación. Para resolver este problema, los módulos de iluminación ajustables ofrecen la solución perfecta. Estos elementos pueden bascular de -15° a +20° y cada módulo puede ser inclinado de manera asimétrica, haciendo posible una orientación precisa y un direccionamiento óptimo de la luz.



back

SQUADRO wallwasher

recessed

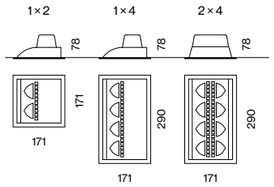
EN Recessed ceiling spotlight in die cast aluminium in 2 sizes, in different types (2 lamps, 4 lamps or 2 x 4 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); with trim; surface powder coated; installation without tools using snap spring closure; aisle spotlight with special, multi-free-form, facet effect surface reflectors for high precision light control; precise shelf and aisle zone lighting, optimum longitudinal glare control for high viewing comfort in the aisle zone, adjustable light modules; COB (Chip on Board) technology for maximum efficiency; efficient LEDs with very good colour rendering; IP 40 protection glass available as an accessory

ES Foco de alum. empotrable en techo en 2 tamaños y diferentes variantes (2, 4 o 2 x 4 lámparas) y con 2 módulos de iluminación (para shelf floor washer y wall floor washer); con marco; superficie con recubrim. de pintura en polvo; sencilla instal. sin herramientas mediante enganche elástico; foco de pasillos con reflect. especiales multisuperficie de forma libre con óptica facetada para una orient. de la luz sumamente precisa; ilumin. precisa de estanterías y pasillos, evitando de forma óptima el deslumbram. longitudinal para un elevado confort visual en el pasillo, módulos de iluminación ajustables; Chip on Board para máx. eficiencia; LEDs eficientes con una muy buena reprod. cromática; vidrio protector IP 40 como accesorio

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 134 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

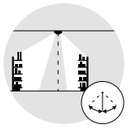


Colours

Light distributions

DiiA® standards
251, 252, 253

glare-free reflector longitudinally & transversely



+20° up to -15° tiltable

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

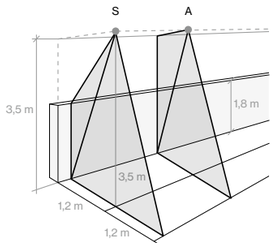
MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

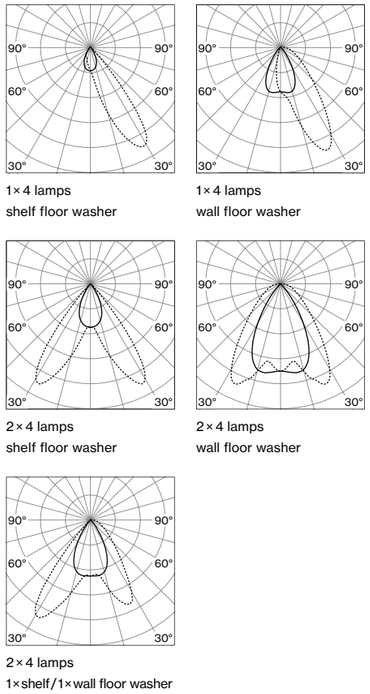
REFLECTOR

shelf floor washer	S
wall floor washer	A
1 × shelf / 1 × wall floor washer*	B

*only for 2 × 4 lamps



Light distributions



1 × 4 lamps
shelf floor washer

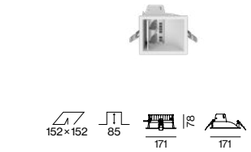
1 × 4 lamps
wall floor washer

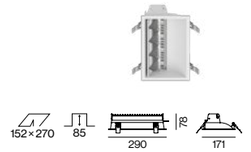
2 × 4 lamps
shelf floor washer

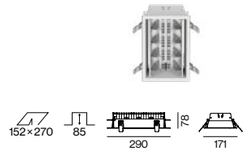
2 × 4 lamps
wall floor washer

2 × 4 lamps
1 × shelf / 1 × wall floor washer

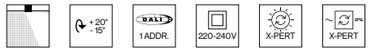
LUMINOUS FLUX value calculated for 4000 K (3000 K -5 %), colour white, wall floor washer





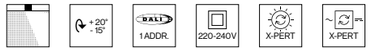


SQUADRO wallwasher trim



1 × 2 LAMPS SINGLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
25.3 W	3250 lm	049-2011



1 × 4 LAMPS SINGLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
51 W	6490 lm	049-2031

2 × 4 LAMPS DOUBLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
86 W	2 × 5760 lm	049-2040
101 W	2 × 6495 lm	049-2041

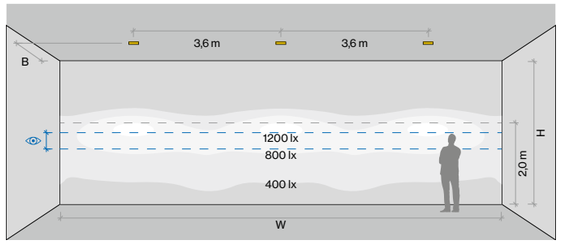
Optical accessories

IP 40 PROTECTION GLASS

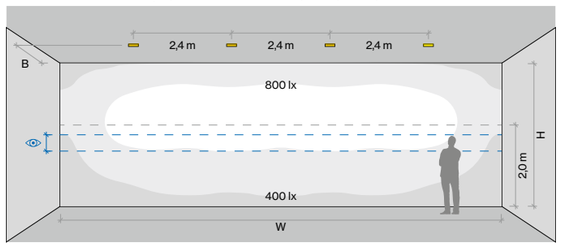
TYPE	ORDER CODE
1 × 2 lamps / single-sided	049-2910010
1 × 4 lamps / single-sided	049-2930010
2 × 4 lamps / double-sided	049-2940010

Technical data

SQUADRO 1 × 4 lamps, shelf wall washer, trim, 51 W, 3000 K



SQUADRO 1 × 4 lamps, wall floor washer, trim, 51 W, 3000 K



ROOM VALUES		CALCULATION SURFACE	
Wall dimensions	H = 3.5 m | W = 10.8 m	Surface dimensions	10.8 × 3.5 m
Distance to wall	B = 1.3 m	Surface height	0 – 3.5 m
Aisle width	2.6 m		
Reflection factor	0.7 | 0.7 | 0.2	Eye level	1.35 m – 1.75 m
Maintenance factor	0.9		

Casagrande Luxury Lifestyle
Lucerne, CH –
by Obrist interior AG

back

GERMAN DESIGN AWARD WINNER 2019

GOOD DESIGN

SQUADRO wallwasher

track

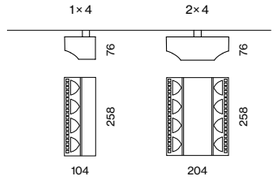
EN Track light in die cast aluminium in two different types (4 lamps or 2×4 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); surface powder coated; aisle spotlight with special, multi-free-form, facet effect surface reflectors for high precision light control; precise shelf and aisle zone lighting, optimum longitudinal glare control for high viewing comfort in the aisle zone, adjustable light modules; COB (Chip on Board) technology for maximum efficiency; efficient LEDs with very good colour rendering; IP40 protection glass available as an accessory; including attachment for linear alignment of the spotlights

ES Foco de aluminio de carril electrificado en 2 diferentes variantes (4 o 2×4 lámparas) y con 2 módulos de iluminación diferentes (para shelf floor washer y wall floor washer); superficie con recubrimiento de pintura en polvo; foco de pasillos con reflect. especiales multisuperficie de forma libre con óptica facetada para una orient. de la luz sumamente precisa; ilumin. precisa de estanterías y pasillos, evitando de forma óptima el deslumbram. longitudinal para un elevado confort visual en el pasillo, módulos de iluminación ajustables; Chip on Board para máx. eficiencia; LEDs eficientes con una muy buena reprod. cromática; vidrio protector IP40 como accesorio; incluye accesorio para la correcta alineación de la luminaria

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 134 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



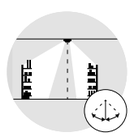
Colours

Light distributions

Data Monitoring

DiiA® standards
251, 252, 253

glare-free reflector longitudinally & transversely



+20° up to -15° tiltable

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

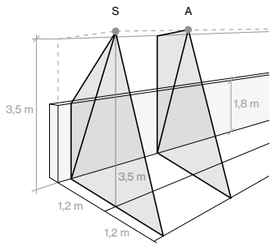
MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

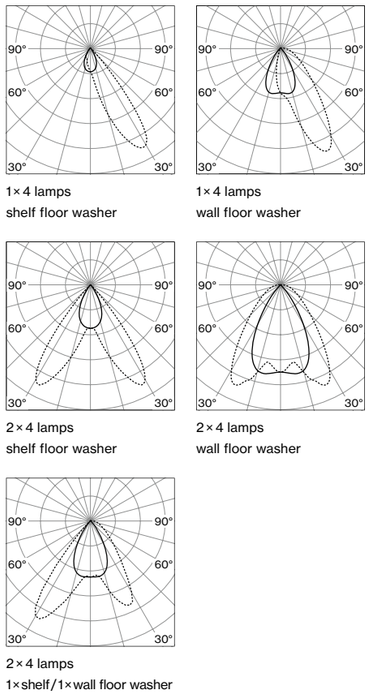
REFLECTOR

shelf floor washer	S
wall floor washer	A
1×shelf/1×wall floor washer*	B

*only for 2×4 lamps



Light distributions



1×4 lamps
shelf floor washer

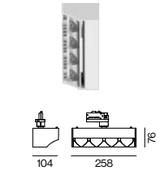
1×4 lamps
wall floor washer

2×4 lamps
shelf floor washer

2×4 lamps
wall floor washer

2×4 lamps
1×shelf/1×wall floor washer

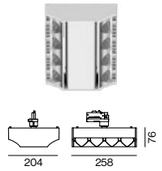
LUMINOUS FLUX value calculated for 4000 K (3000 K -5 %), colour white, wall floor washer



SQUADRO wallwasher track

1×4 LAMPS SINGLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
51 W	6610 lm	149-2231



2×4 LAMPS DOUBLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
86 W	2×5760 lm	149-2240
101 W	2×6490 lm	149-2241

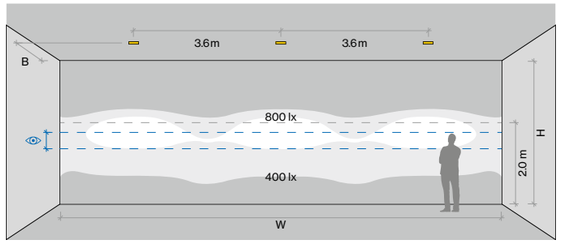
Optical accessories

IP 40 PROTECTION GLASS

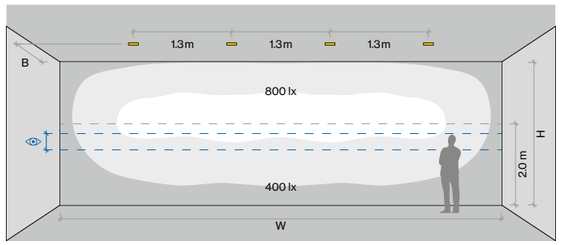
TYPE	ORDER CODE
1×4 lamps/single-sided	049-2930010
2×4 lamps/double-sided	049-2940010

Technical data

SQUADRO shelf floor washer, 1×4 lamps, +5° tilt, 51 W, 3000 K

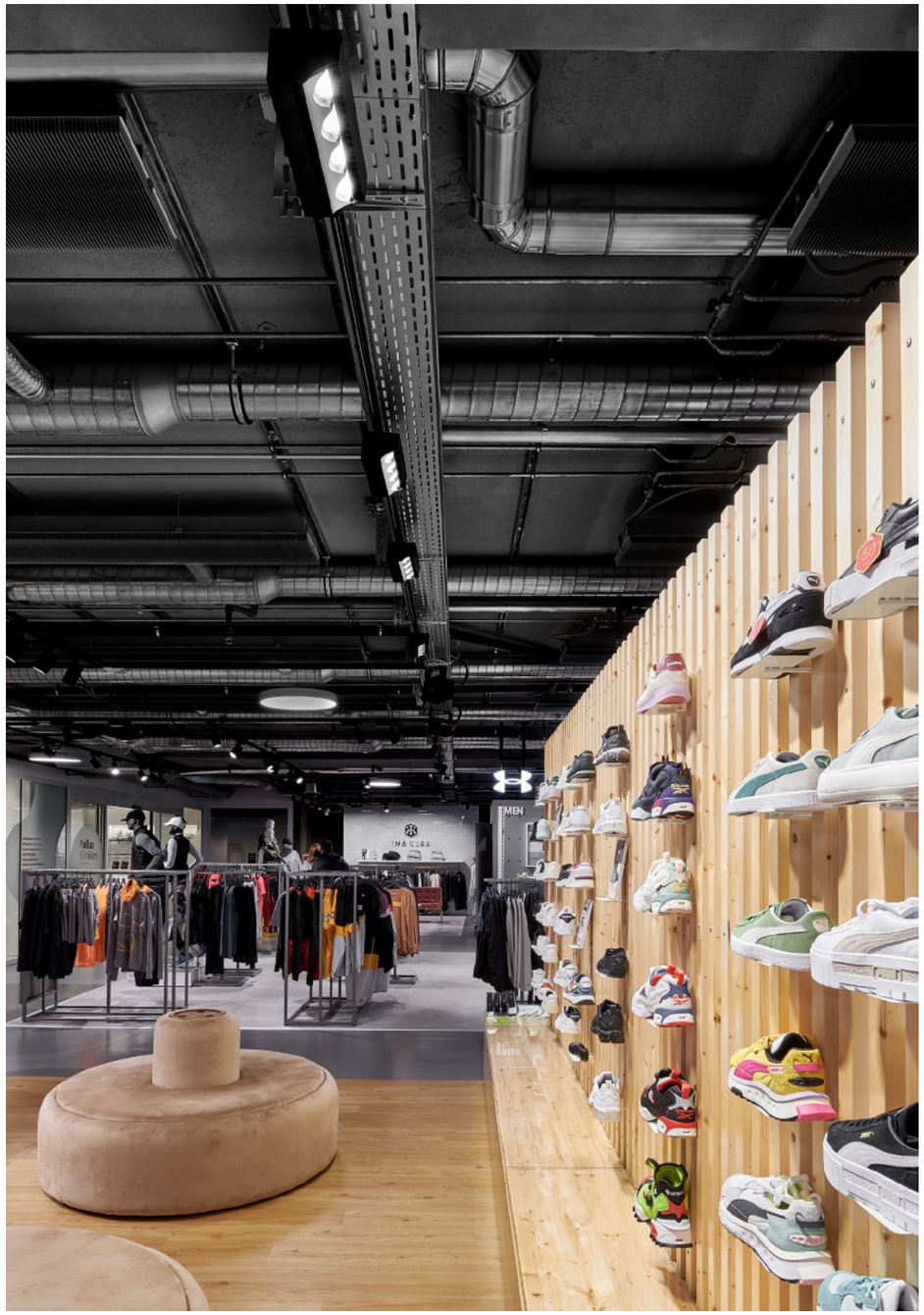


SQUADRO wall floor washer, 1×4 lamps, +5° tilt, 51 W, 3000 K



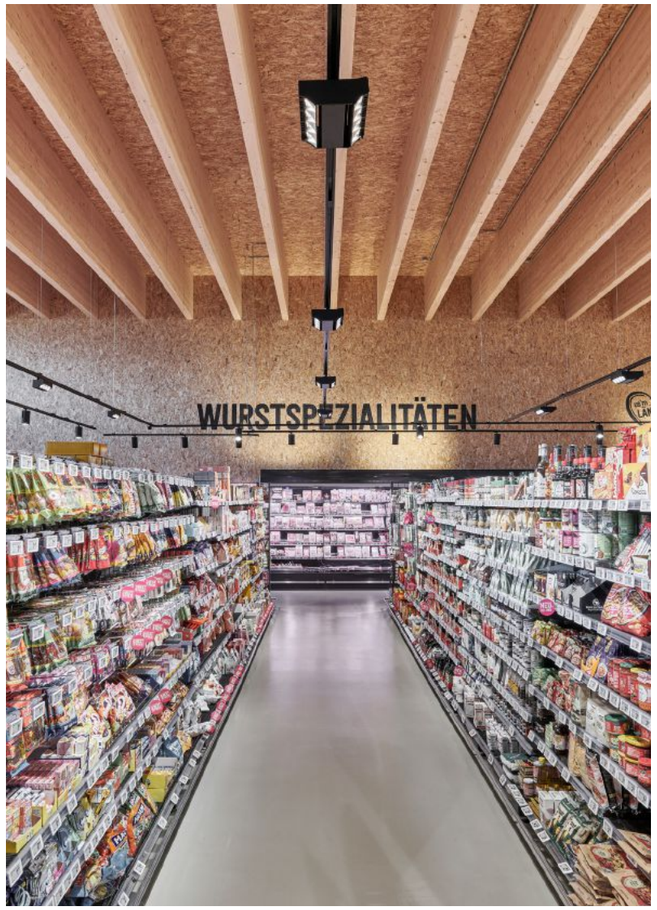
ROOM VALUES		CALCULATION SURFACE	
Wall dimensions	H = 3.5 m | W = 10.8 m	Surface dimensions	10.8 × 3.5 m
Distance to wall	B = 1.3 m	Surface height	0 – 3.5 m
Aisle width	2.6 m		
Reflection factor	0.7 | 0.7 | 0.2	Eye level	1.35 m – 1.75 m
Maintenance factor	0.9		

Jelmoli Store
Zurich, CH



Oasis Store Melbourne, AU –
by Sync Design

Sutterlütty Rankweil, AT –
by Hermann Kaufmann + Partner ZT GmbH



In the spotlight

BO

EN Beautiful design and flexibility distinguish the BO series of ceiling and track-mounted spotlights. Multiple sizes and different beam angles deliver great freedom in staging. The individual spotlights are available as semi-recessed or surface-mounted variants or as single or dual-lamp spotlights in an elegant base with an integrated driver, as well as track-mounted spotlights. Different housing and light colours (2700 K, 3000 K, or 4000 K) offer flexibility in different architectural concepts, and different versions promise excellent colour rendering with up to CRI ≥ 95 (2-SDCM). The spots can be rotated up to 360° and swivelled 90°, making BO an ideal spotlight for shops and display areas.

ES Elegante diseño y flexibilidad: esto caracteriza a la familia de proyectores de techo y carril BO. Sus diversos tamaños y ángulos ofrecen una gran flexibilidad. Estos proyectores están disponibles en variantes semiempotradas o de superficie, como focos de una o dos fuentes de luz en una base elegante con driver integrado y como proyectores de carril. Diversas carcasas y temperaturas de color (2700 K, 3000 K o 4000 K) aportan flexibilidad a la realización de distintos esquemas arquitectónicos y garantizan una reproducción cromática excelente con un índice CRI ≥ 95 (2-SDCM). Los proyectores pueden rotar 360° e inclinarse 90°, lo que convierte a BO en un proyector.

Types

32 45 55 70

Mountings

semi-recessed surface track

Light distribution

spotlight

Matched proportions

EN Elegance in the right measure: All BO product family spotlights are characterised by their decorative and simple aesthetics. Thanks to their reduced design and precisely coordinated proportions, all BO models can be combined with each other.

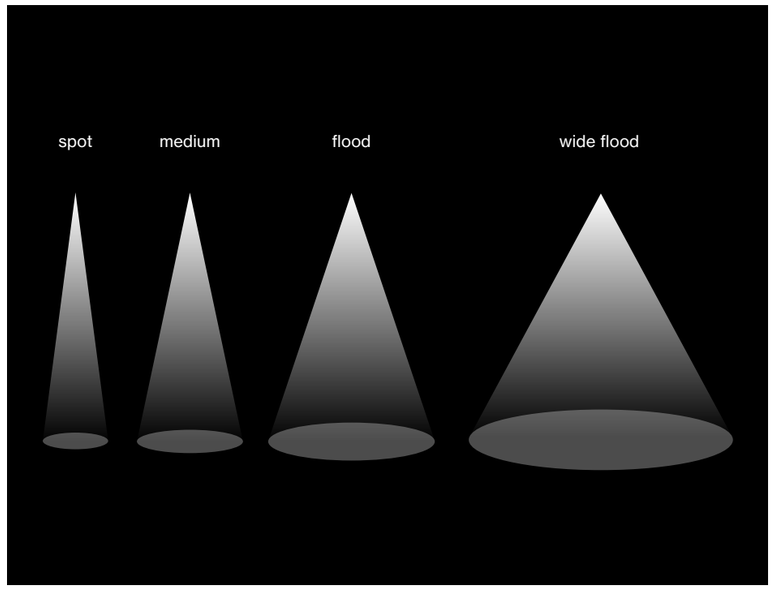
ES Elegancia en su justa medida: todos los focos de la familia de productos BO se distinguen por su estética sencilla y decorativa. Gracias a su diseño minimalista y a la precisa adaptación de sus proporciones, todas las variantes de BO pueden combinarse perfectamente entre sí.

Colour variety

EN BO is available in standard white and black. For even more design freedom, additional colour options are available so that you can tailor BO to your individual project. Learn more about our colour palette at xal.com/colours.

ES BO está disponible en los colores estándar blanco y negro. La gama adicional de colores disponibles le permitirá gozar de una libertad de diseño aún mayor y adaptar BO a su proyecto concreto. Hallará más información sobre nuestra paleta de colores en xal.com/colours.

xal.com/colours



Flexible adjustment

EN BO adapts to the requirements to ensure that objects are presented in the best possible light. The spotlight comes in different beam angles and is rotatable by at least 360°, as well as 90° tiltable.

ES BO se adapta a los requisitos específicos para poner en escena los objetos de la mejor forma posible. El foco está disponible con distintos ángulos de apertura, y además puede girar a 360° e inclinarse 90°.

Intrack

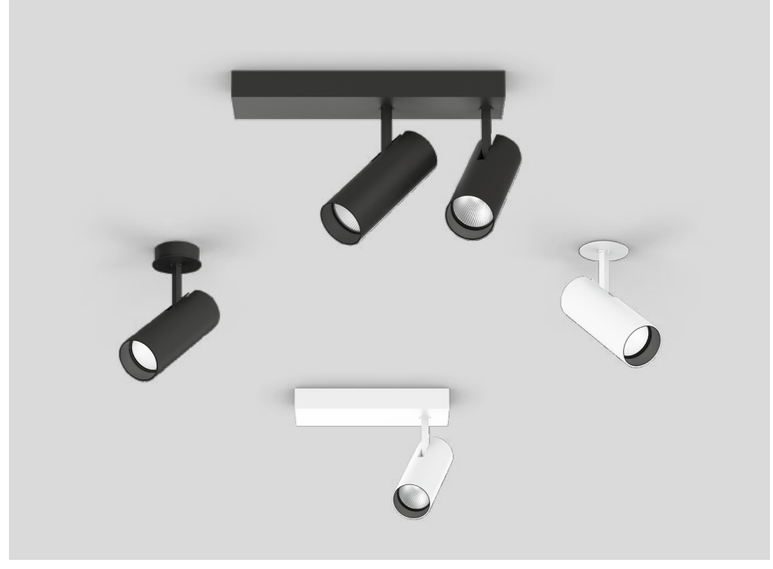
EN Flexible adjustment – easy installation: In the track version, BO combines different sizes and beam angles. Thus, ever new lighting scenarios can be implemented: from the selective presentation of goods and products to the staging of art objects and home accessories. The converter disappears elegantly into the track.

ES Ajuste flexible, fácil montaje: en la variante embutida en carril, BO ofrece distintos tamaños y ángulos de apertura. Esto permite realizar puestas en escena luminosas siempre nuevas, desde la presentación de artículos y productos con acentos puntuales hasta la iluminación precisa de objetos de arte y complementos de decoración. El convertidor desaparece elegantemente dentro del carril.

Variety

EN The individual spotlights are available as semi-recessed or surface-mounted versions or as single or double-flame spotlights in an elegant housing. Different housing and light colours (2700 K, 3000 K, or 4000 K) offer flexibility for unique projects.

ES Los focos individuales están disponibles en versión semiencastrada o de superficie o como focos de una o dos llamas en una elegante carcasa. Las diferentes carcasas y colores de luz (2700 K, 3000 K o 4000 K) ofrecen flexibilidad para proyectos únicos.



back

BO 32 / 45 / 55

semi-recessed / surface

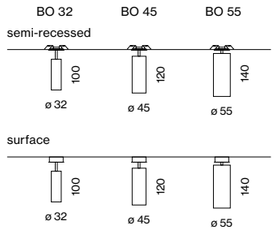
EN Cylindrical spotlight made of aluminium; surface powder coated; either with surface mounted housing or as ceiling recessed variant; spotlight head 350° rotatable and 90° tiltable; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristics with different beam angles; good glare reduction due to recessed light point plane; optical attachments as accessories; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering

ES Foco cilíndrico de aluminio; superficie con recubrimiento de pintura en polvo; con carcasa de superficie o como variante empotrada en techo; cabezal giratorio a 350° y orientable a 90°; reflector de alta calidad de aluminio vaporizado con óptica facetada; proyección precisa con distintos ángulos de apertura; buen control del deslumbramiento por plano de punto de luz retranqueado; elementos ópticos accesorios; con tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 2 SDCM
BO 32 up to 91 lm/W
BO 45 up to 103 lm/W
BO 55 up to 92 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



Colours

standard xal.com/colours

Light distributions

glare control via honeycomb louver

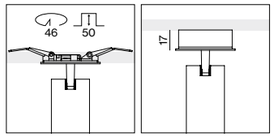
350° rotatable, 90° tiltable

CRI ≥ 95, 2 SDCM

Order options

MOUNTING

semi-recessed ceiling clip	1
surface housing	2



COLOUR TEMPERATURE

2700 K	4
3000 K	5

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours* → p. 992	X

*canopy always in white

BEAM ANGLE BO 32

spot 18°	S
medium 23°	M
flood 37°	F

BEAM ANGLE BO 45

super spot 8°	V
spot 14°	S
medium 24°	M
flood 39°	F

BEAM ANGLE BO 55

spot 17°	S
medium 23°	M
flood 37°	F

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

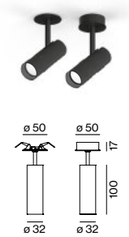
COLOUR TEMPERATURE

4000 K

CONTROL

Casambi

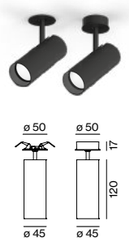
LUMINOUS FLUX value calculated for 3000 K, colour white, reflector flood 2700 K -6 %



BO 32 semi-recessed / surface

ADJUSTABLE

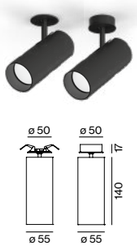
INSET POWER	LUMINOUS FLUX	ORDER CODE
8.8 W 36 Vf 250 mA	755 lm	0 4 9 - 6 ♁ 2 0 ⁘ 1 ◪ ▲



BO 45 semi-recessed / surface

ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.1 W 11 Vf 400 mA	super spot 297 lm	0 4 9 - 6 ♁ 3 0 ⁘ 1 ◪ V
12.8 W 37 Vf 350 mA	spot 1030 lm	0 4 9 - 6 ♁ 3 0 ⁘ 1 ◪ S
13.5 W 36 Vf 400 mA	medium, flood 1320 lm	0 4 9 - 6 ♁ 3 0 ⁘ 1 ◪ ▲



BO 55 semi-recessed / surface

ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
21.1 W 36 Vf 600 mA	1850 lm	0 4 9 - 6 ♁ 4 0 ⁘ 1 ◪ ▲

Electrical accessories

170 BO 32
210 BO 45
210 BO 55

POWER SUPPLY 220 – 240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
250 mA | non DIM	η 80 %	65·39·20	0 0 2 - 9 0 7 4 2
250 mA | DALI-2	η 82 %	147·33·23	0 0 2 - 9 0 7 4 3
350 mA | non DIM	η 85 %	180·30·21	0 0 2 - 9 0 7 2 2
350 mA | DALI-2	η 83 %	210·30·21	0 0 2 - 9 0 7 2 3
400 mA | non DIM	η 88 %	180·30·21	0 0 2 - 9 0 7 2 4
400 mA | DALI-2	η 84 %	210·30·21	0 0 2 - 9 0 7 2 5
600 mA | non DIM	η 87 %	210·30·21	0 0 2 - 9 0 7 2 6
600 mA | DALI-2	η 85 %	210·30·21	0 0 2 - 9 0 7 2 7

for surface versions revision opening required

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48V DC constant voltage	90·90·60	0 0 5 - 6 5 2 0 2 1 0
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48V DC | U_{OUT} 10–40 V	36·88·59	0 0 5 - 6 1 2 1 0 3 0

for more details and components see page 981

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
BO 32	30·3	0 0 7 - 1 9 6 5 1 6 8
BO 45	42·3	0 0 7 - 1 9 6 5 1 8 8
BO 55	50·3	0 0 7 - 1 9 6 5 5 9 8

Complexe des opérations Payerne CH – by op-arch, Oester Pfenninger, Ulrich Weiz including lighting design

Wohnhaus Pferdeblick, AT –
by Baukooperative GmbH
including lighting design

Einrichtungshaus Grimm
Göppingen, DE –
by Studio Komo

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BO 45 base

surface

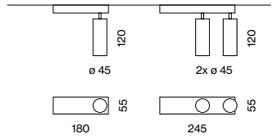
EN Cylindrical spotlight made of aluminium; surface powder coated; spotlight head 350° / 330° (1 lamp / 2 lamps) rotatable and 90° tiltable; choice of single lamp or double lamps; surface mounted housing in aluminium incl. converter; mounting plate with pre-assembled converter unit can be pre-mounted; luminaire housing can be attached without tools by interlock; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristics with different beam angles; good glare reduction due to recessed light point plane; optical attachments as accessories; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering

ES Foco cilíndrico de aluminio; recubrimiento de pintura en polvo; con carcasa de superficie o como variante empotrada en techo; cabezal giratorio a 350°/330° (1 /2 lámparas) y orientable a 90°; una o dos luces; carcasa alum. para mont. en superficie con convertidor; placa de montaje con convertidor premontado/premontable; cuerpo de luminaria enclavable sin herramienta; reflector de alta calidad de aluminio vaporizado con óptica facetada; proyección precisa con distintos ángulos de apertura; buen control del deslumbramiento por plano de punto de luz retranqueado; elementos ópticos accesorios; con tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 2 SDCM
1 lamp up to 86 lm/W
2 lamps up to 96 lm/W
L80 @ 50 000 h
non DIM, DALI-2

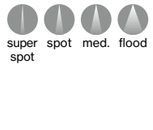
Types



Colours

standard xal.com/colours

Light distributions



super spot, spot, med., flood

glare control via honeycomb louver

350° rotatable, 90° tiltable

CRI ≥ 95, 2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours* p. 992	X

*base always in white

BEAM ANGLE

super spot 8°	V
spot 14°	S
medium 24°	M
flood 39°	F

Options on request

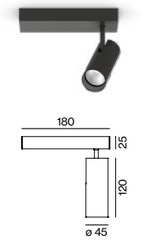
COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

COLOUR TEMPERATURE

4000 K

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -6 %

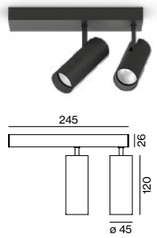


BO 45 base surface

350° 90° | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

1 LAMP

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
7.2 W	super spot 297 lm	049-633 0 V
15.1 W	spot 1030 lm	049-633 0 S
15.9 W	medium, flood 1310 lm	049-633 0 ▲



BO 45 base surface

330° 90° | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

2 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
14.4 W	super spot 2 × 297 lm	049-643 0 V
30 W	spot 2 × 1030 lm	049-643 0 S
27.5 W	medium, flood 2 × 1220 lm	049-643 0 ▲

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
BO 45	42·3	007-196 5188

möbelbau breitenthaler gmbh
Leibnitz, AT – by möbelbau
breitenthaler gmbh

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BO 32 / 45 / 55

intrack

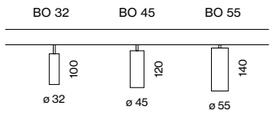
EN Track light made of die-cast aluminium; surface powder coated; spotlight head rotates 360° and tilts 90°; converter integrated in the power track adapter; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristics with different beam angles; good glare reduction due to recessed light point plane; optical attachments as accessories; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter flush with the power track

ES Foco de carril electrificado de fund. de aluminio; recubrimiento de pintura en polvo; cabezal giratorio a 360° y orientable a 90°; convertidor integrado en adaptador de carril; reflector de alta calidad de aluminio vaporizado con óptica facetada; proyección precisa con distintos ángulos de apertura; buen control del deslumbramiento por plano de punto de luz retranqueado; elementos ópticos accesorios; con tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs de alta eficiencia con muy buena reproducción cromática; adaptador para instalación sin herramienta o desplazamiento en diferentes carriles trifásicos; adaptador enrasado con el carril eléctrico

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
BO 32 up to 69 lm/W
BO 45 up to 87 lm/W
BO 55 up to 78 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



Colours

standard xal.com/colours

Light distributions

glare control via honeycomb louver

360° rotatable, 90° tiltable

CRI ≥ 95, 2 SDCM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours → p. 992	X

BEAM ANGLE BO 32

spot 18°	S
medium 23°	M
flood 37°	F

BEAM ANGLE BO 45

super spot 8°	V
spot 14°	S
medium 24°	M
flood 39°	F

BEAM ANGLE BO 55

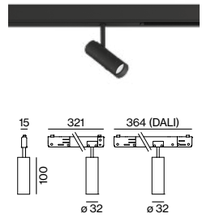
spot 17°	S
medium 23°	M
flood 37°	F

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 2700 K -5 %, 4000 K +7 %

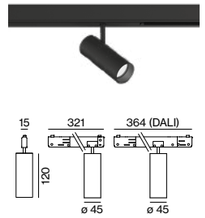


BO 32 intrack

360° 90° | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
11.7 W	755 lm	180-7111

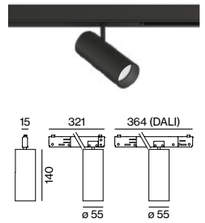


BO 45 intrack

360° 90° | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
6.1 W	super spot 297 lm	180-7211 V
15.1 W	spot 1030 lm	180-7211 S
15.9 W	medium, flood 1320 lm	180-7211



BO 55 intrack

360° 90° | CRI ≥ 90 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
24.8 W	1840 lm	180-7311

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
BO 32	30·3	007-1965168
BO 45	42·3	007-1965188
BO 55	50·3	007-1965598

Oberpollinger | The KaDeWe Group
Munich, DE – by Licht Kunst Licht AG
including lighting design

Optiek Sagaert Zwevegem BE –
by Courtois & Châtelain and
Entirus Group

back

BO 55 / 70

track

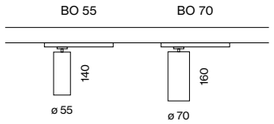
EN Track light made of die-cast aluminium; surface powder coated; spotlight head 355° rotatable and 90° tiltable; converter integrated in the power track adapter; high-quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristics with different beam angles; good glare reduction due to recessed light point plane; optical attachments as accessories; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; adapter for toolless insertion or movement on a variety of 3-phase power tracks

ES Foco de carril electrificado de fundición de aluminio; recubrimiento de pintura en polvo; cabezal giratorio a 355° y orientable a 90°; convertidor integrado en el adaptador de carril; reflector de alta calidad de aluminio vaporizado con óptica facetada; proyección precisa con distintos ángulos de apertura; buen control del deslumbramiento por plano de punto de luz retranqueado; elementos ópticos accesorios; con tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs de alta eficiencia con muy buena reproducción cromática; adaptador para instalación sin herramienta o desplazamiento en diferentes carriles trifásicos

Quickinfo

3000 K, 4000 K
CRI ≥ 90 2-SDCM
up to 87 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



Colours

Light distributions

BO 55

spot med. flood

BO 70

spot med. flood wide flood

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE BO 55

spot 17°	S
medium 24°	M
flood 40°	F

BEAM ANGLE BO 70

spot 15°	S
medium 23°	M
flood 37°	F
wide flood 57°	W

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

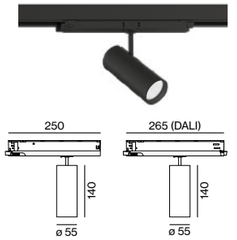
CONTROL

Casambi

glare control via honeycomb louver

355° rotatable, 90° tiltable

CRI ≥ 90, 2 SDCM

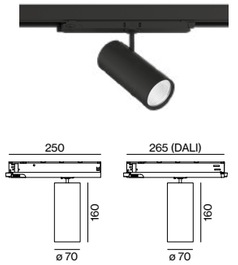


BO 55 track

355° 90° | CRI ≥ 90 | 2-SDCM | 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
24.8 W	2150 lm	180-7312



BO 70 track

355° 90° | CRI ≥ 90 | 2-SDCM | 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
40 W	3410 lm	180-7411

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
BO 55	50·3	007-1965598
BO 70	61·3	080-5900018

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 4000 K +5 %

Shop SVNTY Antwerp, BE –
by Verhamme de vel Architecten
with lighting design by Electro Govaerts

Universal expert

VARO

EN As a track-mounted spotlight, VARO focuses on the essentials and can be used universally. It is available in two different sizes and, thanks to its 355° rotation and 90° swivelling capability, is extremely flexible in use. This flexibility is supported by the fact that the spotlights can be inserted and moved along the track without tools. It is ideal for use in shops whose interior design is continually evolving. The high-quality reflector from VARO ensures a particularly precise beam characteristic at different angles, all with an excellent colour rendering up to CRI ≥ 95. Depending on the desired spatial effect, you can choose between the 3000 K and 4000 K light colours.

ES VARO es un proyector de carril de uso universal que se centra en lo esencial. Está disponible en dos tamaños distintos y ofrece un uso altamente dinámico, gracias a su capacidad de giro a 355° e inclinación a 90°. Esta flexibilidad se acentúa mediante su colocación sin herramientas y el sencillo desplazamiento de los proyectores en el carril, por lo que este es el producto perfecto para tiendas en las que el propietario quiera desplazar el punto de luz dentro del carril dependiendo de las necesidades específicas. El reflector de VARO garantiza una proyección altamente precisa en ángulos distintos, a lo que se añade una sólida reproducción cromática con CRI ≥ 95. En función del efecto deseado, es posible elegir entre temperaturas de color de 3000 K y 4000 K.

Types

80 110

Mounting

track

Light distribution

spotlight

VARO 80 S

track

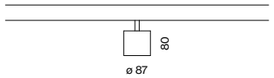
EN Track light made of die-cast aluminium; surface powder coated; spotlight head 355° rotatable and 90° tiltable; integrated converter in the plastic adapter; high quality reflector with spherical facet finish; precise radiation characteristics with different beam angles; installed and exchanged without tools; optical attachments as accessories; optical attachments can be combined; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; adapter for toolless insertion or movement on a variety of 3-phase power tracks

ES Foco de carril electrificado de fundición de aluminio; recubrimiento de pintura en polvo; cabezal giratorio a 360° y orientable a 90°; convertidor integrado en adaptador de plástico; reflector de alta calidad con óptica facetada esférica; proyección precisa con distintos ángulos de apertura; intercambiable sin herramienta; elementos ópticos accesorios; accesorios ópticos combinables entre sí; con tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs de alta eficiencia con muy buena reproducción cromática; adaptador para instalación sin herramienta o desplazamiento en diferentes carriles trifásicos

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 91 lm/W
L80 / 50 000 h
non DIM, DALI-2

Type



Colours

Light distributions

optical accessories

combine 2 optical accessories

355° rotatable, 90° tiltable

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE

spot 17°	S
medium 28°	M
flood 38°	F

Options on request

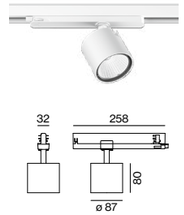
COLOUR RENDERING INDEX

CRI ≥ 80

CONTROL

Casambi

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 4000 K +8 %



VARO 80 S track

355° 90° | CRI ≥ 90 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

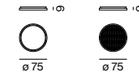
TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
28.5 W	2600 lm	180-6420
45 W	3610 lm	180-6421

Optical accessories

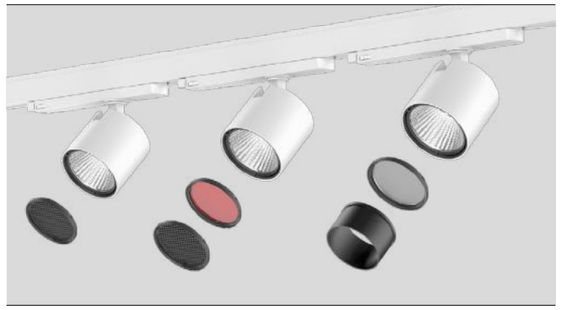
LENSES AND HONEYCOUMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
linear prismatic lens	75·9	080-6402110P
honeycomb louver	75·9	080-6401118



SNOOT

TYPE	Ø·H (mm)	ORDER CODE
short	66·23	080-6403118
medium	66·38	080-6403218
angle	66·38	080-6403318



possibility to combine different optical accessories (max. 2 pieces)

s.Oliver Store Munich, DE –
by Kitzig Interior Design GmbH
including lighting design

Feucht Mode Innsbruck, AT –
by blocher partners with lighting design by
Hailight Lichtplanung, Andreas Haidegger

Museo Camera Gurugran, IN –
by Studio Lumitiv

back

VARO 80 / 110

track

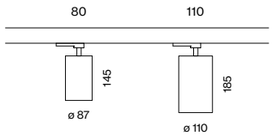
EN Track spotlight in die-cast aluminium, available in 2 different sizes; surface powder coated; spotlight head 355° rotatable and 90° tiltable; converter installed in aluminium spotlight housing; high quality reflector with spherical facet finish; precise radiation characteristics with different beam angles; installed and exchanged without tools; optical attachments as accessories; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; adapter for toolless insertion or movement on a variety of 3-phase power tracks

ES Foco de carril electrificado de fundición de aluminio en 2 tamaños distintos; superficie con recubrimiento de pintura en polvo; cabezal giratorio a 360° y orientable a 90°; convertidor integrado en la carcasa de aluminio; reflector de alta calidad con óptica facetada esférica; proyección precisa con distintos ángulos de apertura; intercambiable sin herramienta; elementos ópticos accesorios; con tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs de alta eficiencia con muy buena reproducción cromática; adaptador para instalación sin herramienta o desplazamiento en diferentes carriles trifásicos

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
VARO 80 up to 95 lm / W
VARO 110 up to 100 lm / W
L80 / 50 000 h
non DIM

Types



Colours

Light distributions

med. flood

355° rotatable, 90° tiltable

CRI ≥ 95 2 SDCM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE VARO 80

spot 17°	S
medium 28°	M
flood 38°	F

BEAM ANGLE VARO 110

spot 14°	S
medium 24°	M
flood 33°	F

Options on request

COLOUR RENDERING INDEX

CRI ≥ 95 2-SDCM

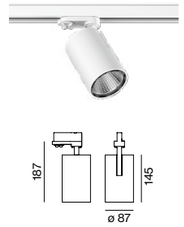
SPECIAL COLOUR RENDERING

vogue	CRI ≥ 90
gallery	CRI 98
gourmet	CRI ≥ 80
fresh meat & fish	CRI ≥ 80
pastry	CRI ≥ 80
brilliant white	CRI ≥ 90

REFLECTOR

wide flood 67°

only for VARO 110

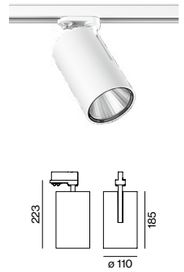


VARO 80 track

355° 90° | CRI ≥ 90 | 220-240V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
29 W	2700 lm	080-6210 :: 1 ◪ ▲



VARO 110 track

355° 90° | CRI ≥ 90 | 220-240V | X-PERT | X-PERT

TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
42 W	4210 lm	080-6120 :: 1 ◪ ▲

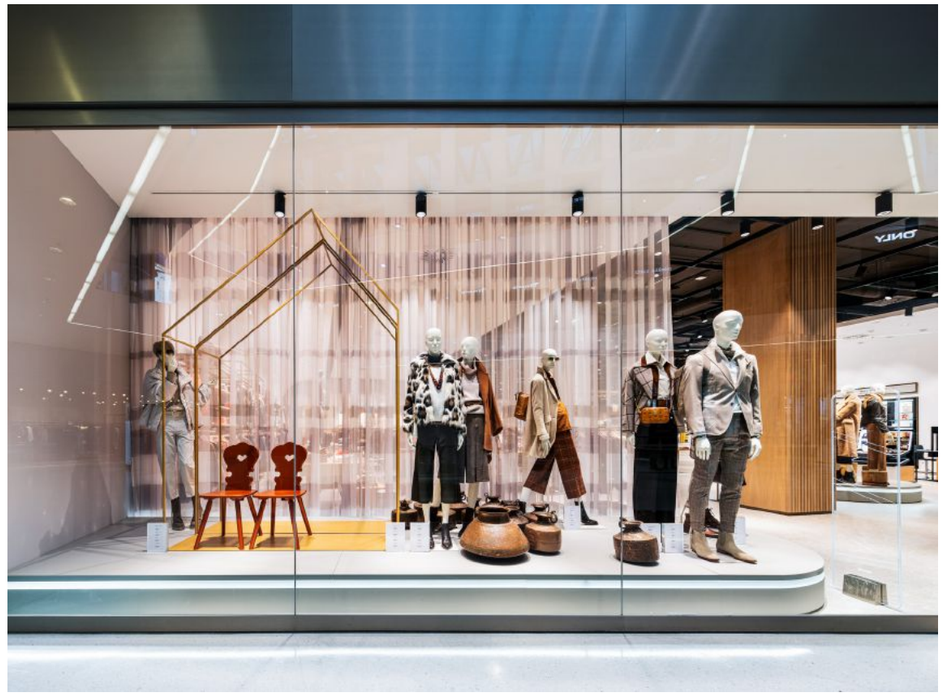
Optical accessories

SNOOT WITH HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
VARO 80	83·9	006-93120
VARO 110	106·9	006-93130

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, flood 4000 K +5 %

Kastner & Öhler, Kaufhaus Tyrol Innsbruck, AT –
by DIOMA AG / WHIR3 / K&Ö Bauabteilung with
lighting design by VEDDER.LICHTMANAGEMENT



Porsche Studio Saigon, VN –
by Kobi Lighting Studio

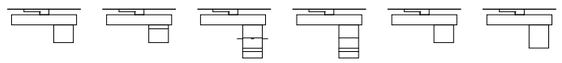
Known for his expressive colours

PABLO

EN The PABLO track-mounted spotlight was developed especially for museums. With a colour rendering index of up to CRI ≥ 95, it illuminates works of art with near-perfect colour reproduction. The Colour Tune variant compensates for age-related colour changes in paintings with increased and customisable red-blue saturation. PABLO is fixed in the tracks without tools, and the spotlight heads heads can be rotated, swivelled, and repositioned almost at will. PABLO focus's beam angle is also adjustable. The iris, shutter, and gobo versions create sharp-edged light cut-outs in various shapes to stage works of art even more excitingly. The multilens version of PABLO has five attachment lenses that can be exchanged without tools depending on the required beam pattern. The mood of the room can be influenced by using the Tunable White version to change light colours.

ES El proyector PABLO de montaje en carril ha sido concebido especialmente para museos y galerías de arte. Gracias a su índice de reproducción cromática (CRI) de hasta ≥ 95, el proyector ilumina las obras de arte con una excepcional exactitud en la reproducción cromática. En su variante colour tune, las variaciones de color en pinturas debidas al envejecimiento se compensan mediante una elevada saturación rojoazul de ajuste personalizado. PABLO se monta en los carriles sin ningún tipo de herramientas, y los cabezales de proyector pueden girarse, orientarse y posicionarse de casi cualquier modo que se desee. En el modelo PABLO focus es posible variar adicionalmente el ángulo de apertura. Los modelos iris, shutter y gobo crean recortes de bordes en distintas formas para poner en escena las obras de arte de un modo aún más interesante. La versión multilente de PABLO cuenta con cinco lentes de fijación que pueden intercambiarse sin necesidad de herramientas en función de la distribución del haz que se desee. Con la opción tunable white, los cambios de temperatura de color permiten modificar el ambiente luminoso de la sala.

Types



basic | focus | shutter | iris gobo | colour tune tunable white | multilens

Mounting

track

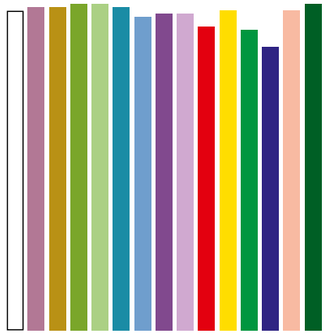
Light distribution

spotlight

PABLO multilens

EN PABLO's multilens design lets the beam characteristics be flexibly adjusted depending on the application. For this purpose, there are five ancillary lenses that can be easily exchanged without tools. Objects are thus staged in the best possible light and the staging of a room with changing interiors becomes feasible.

ES La variante PABLO multilens permite adaptar el modo de proyección al caso de uso concreto con total flexibilidad. Para ello existen cinco lentes adaptables que pueden intercambiarse fácilmente sin necesidad de herramienta. Esto permite presentar los objetos del mejor modo posible, posibilitando además la puesta en escena de salas sujetas a una decoración cambiante.



Authentic colours

EN Museum lighting must present exhibits authentically. PABLO illuminates works of art with near-perfect colour reproduction thanks to a colour rendering index of up to CRI ≥ 95 and R9 > 90. Light colour and intensity can be controlled, allowing the lighting to be adapted to any new spatial setting.

ES La iluminación de museos debe representar las obras expuestas con autenticidad. Gracias a su índice de reproducción cromática (CRI) de hasta ≥ 95 y R9 > 90, PABLO ilumina las obras de arte con una alta calidad cromática. El color y la intensidad de la luz son regulables, por lo que la iluminación puede adaptarse a cada puesta en escena.

Restored by light

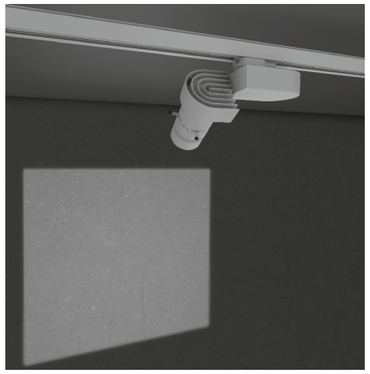
EN PABLO Colour Tune was developed to faithfully revive historical art worthy of protection. A customisable red-blue saturation compensates, purely thanks to the lighting, for time-related colour damage. This gently reawakens a work of art's original colours.

ES PABLO Colour Tune se ha creado para revivir las obras de arte y dignas de protección respetando su estado original. Una saturación rojo-azul de ajuste preciso compensa los daños de color causados por el tiempo, sólo mediante iluminación. Esto reaviva los colores originales de una obra de arte del modo más cuidadoso posible.

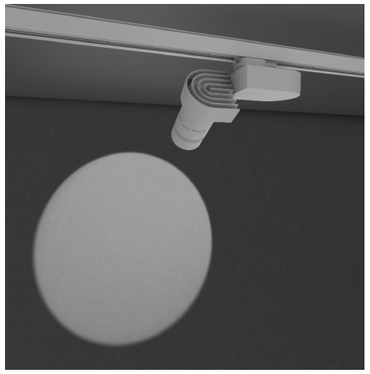
Light in form

EN PABLO's shutter, iris, and gobo variants create sharp-edged silhouettes in a square, round, or custom shape such as lettering. This means exhibits can be precisely custom-illuminated for maximum effect.

ES Las versiones de PABLO Shutter, Iris y Gobo crean siluetas con aristas vivas de formas cuadrangulares, redondas o de libre elección, como p. ej. rótulos. Esto permite iluminar con exactitud y precisión las obras expuestas, y hacer que estas logren el mayor efecto posible.



shutter



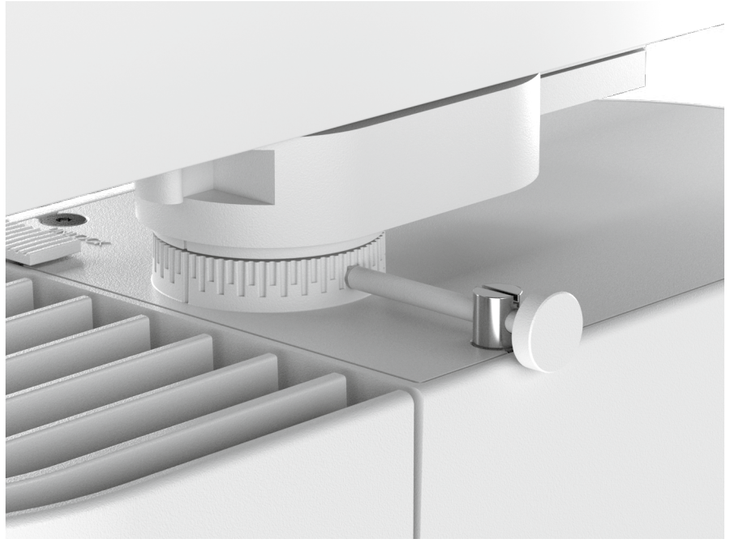
iris

gobo

Precise and variable

EN PABLO spots can be mounted and moved along the track without tools. The spotlight head can be fixed in any position without tools thanks to the special adapter fixing. This makes PABLO as precise as it is flexible, even after installation.

ES Los proyectores PABLO pueden montarse sin herramienta y desplazarse en los carriles. Gracias a la fijación especial adaptable, el cabezal del proyector puede fijarse en cualquier posición sin necesidad de herramientas. Por eso, PABLO es tan preciso como flexible, incluso después su instalación.



Easy dimming

EN PABLO's DIM Poti variant has a manual dimming function. The brightness can be easily adjusted directly on-site at the spotlight head to suit the surroundings and the desired lighting mood.

ES La versión con regulador DIM de PABLO dispone de una función de atenuación manual. Esto permite adaptar fácilmente la luminosidad al entorno y ajustar el ambiente luminoso deseado en el propio cabezal del proyector.

back

GERMAN DESIGN AWARD 2017

iF DESIGN AWARD 2017

PABLO basic / focus

track

EN Track light made of die-cast aluminium; powder coated; converter in spotlight housing; COB (Chip on Board) technology – maximum efficiency; no multiple shadows; energy-eff. LEDs – very good colour rendering; PABLO basic: sym./asym. radiation characteristic; PABLO focus: object focusing through adjustable lens; adjustable beam angle; PABLO shutter / iris: contour spotlight for rectangular or round shape – adjustment by 4 shading elements / by iris-shaped shade; toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation optionally without tools by means of knurled screw or set screw (screwdriver required); point outlet, either in surface mounted housing or recessed housing, as an accessory

ES Proyector de carril electrificado de fundición de aluminio inyectado; recubierto de polvo; convertidor en carcasa de proyector; Chip on Board – máxima eficiencia; no sombras múltiples; LED energét. efic. – excelente reprod. crom.; PABLO basic: radiación sim. / asim.; PABLO focus: enfoque de objetos con lente ajustable; ángulo de apert. regulable; PABLO shutter / iris: foco de contornos para diseño cuadrado / redondo – Ajuste con 4 elem. de oscurecim. o oscurecedores en forma de iris; inserción o acople sin herramienta en diversos carriles eléctricos trifásicos; fijación de adaptador sin herramienta con tornillo moleteado o tornillo de sujeción (destornillador necesario); base para techo, opcionalmente en carcasa superpuesta o carcasa empotrada, como accesorio

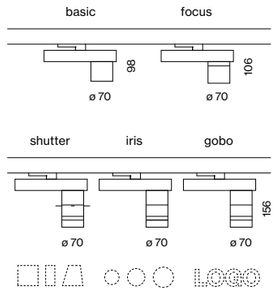
Quickinfo

3000 K, 4000 K
CRI ≥ 95, 2 SDCM
POTI, DALI

L85 @ 50 000 h
PABLO basic up to 87 lm/W
PABLO focus up to 69 lm/W

L90 @ 50 000 h
PABLO shutter / iris up to 18 lm/W

Types



Colours

Light distributions

PABLO basic

PABLO focus

DiiA® standards 251, 252, 253

360° rotatable 310° tiltable

DIM POTI / rotation lock

shutter / iris / gobo

Order options

ADAPTER FIXATION

tool-free fixation	2
set screw (tool required)	1

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DIM POTI	8
DALI	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

REFLECTOR

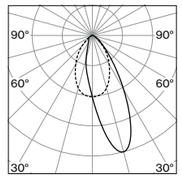
super spot 6° (only for 11 W)	V
spot 12°	S
medium 24°	M
flood 39°	F
wide flood 58°	W
wallwasher	A

Options on request

REFLECTOR

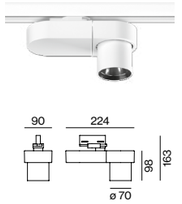
oval flood

Light distribution



wallwasher

LUMINOUS FLUX value calculated for CRI ≥ 95, colour white, reflector spot



PABLO basic

360° 310° | CRI ≥ 95 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYS. POWER	COLOUR TEMPERATURE	LUMINOUS FLUX	ORDER CODE
10.9 W (3-SDCM)	3000 K (CRI ≥ 90)	614 lm	180-51 0 05 ◪ V
	4000 K (CRI ≥ 90)	660 lm	180-51 0 06 ◪ V
13.9 W	3000 K	986 lm	180-51 0 0 ◪ ▲
	4000 K	1080 lm	
22.9 W	3000 K	1460 lm	180-51 0 1 ◪ ▲
	4000 K	1610 lm	

PABLO focus 17–47°

360° 310° | CRI ≥ 95 | 2-SDCM | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

TRACK LIGHT

SYS. POWER	COLOUR TEMPERATURE	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	785 lm	180-52 0 0 ◪
	4000 K	862 lm	
23 W	3000 K	1170 lm	180-52 0 1 ◪
	4000 K	1280 lm	

Optical accessories

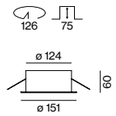
SNOOT | HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
snoot	62·33	080-5900008
honeycomb louver	61·3	080-5900018

Mounting accessories

SURFACE HOUSING / POINT OUTLET

TYPE	ORDER CODE
surface housing / point outlet	186-07228 ◪



RECESSED HOUSING / POINT OUTLET

ceiling thickness: 1-30 mm

TYPE	ORDER CODE
recessed housing / point outlet	186-07227 ◪

back

Order options

ADAPTER FIXATION

tool-free fixation	2
set screw (tool required)	1

COLOUR TEMPERATURE

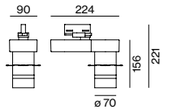
3000 K	0
4000 K	1

CONTROL

DIM POTI	8
DALI	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8



PABLO shutter

360° 310° | CRI ≥95 | 2-SDCM | 1 ADDR. | 220-240V | X-PERT | X-PERT

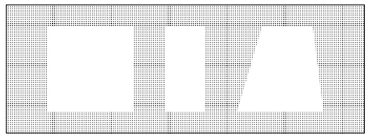
TRACK LIGHT

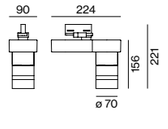
SYS. POWER	COLOUR TEMP.	LUMINOUS INTENSITY	ORDER CODE
14 W	3000 K	854 cd	180-530
	4000 K	934 cd	
23 W	3000 K	1266 cd	180-531
	4000 K	1389 cd	

illuminance (lux) = luminous intensity (cd) / distance (m)²

LIGHT DISTRIBUTION

possible shapes of illumination





PABLO iris

360° 310° | CRI ≥95 | 2-SDCM | 1 ADDR. | 220-240V | X-PERT | X-PERT

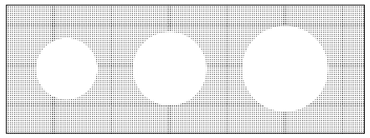
TRACK LIGHT

SYS. POWER	COLOUR TEMP.	LUMINOUS INTENSITY	ORDER CODE
14 W	3000 K	873 cd	180-540
	4000 K	960 cd	
23 W	3000 K	1297 cd	180-541
	4000 K	1425 cd	

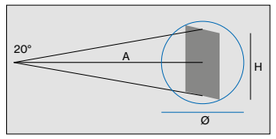
illuminance (lux) = luminous intensity (cd) / distance (m)²

LIGHT DISTRIBUTION

possible shapes of illumination



Illumination size

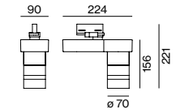


A (mm)	H (mm)	ø (mm)
1000	396	560
2000	792	1120
3000	1188	1680

Order options

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8



PABLO gobo

360° 310° | CRI ≥95 | 2-SDCM | 220-240V | X-PERT | X-PERT

TRACK LIGHT

SYS. POWER	LUMINOUS INTENSITY	ORDER CODE
14 W	depends on form	on request

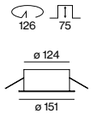
LIGHT DISTRIBUTION

customised shapes of illumination possible

Mounting accessories

SURFACE HOUSING / POINT OUTLET

TYPE	ORDER CODE
surface housing / point outlet	186-07228

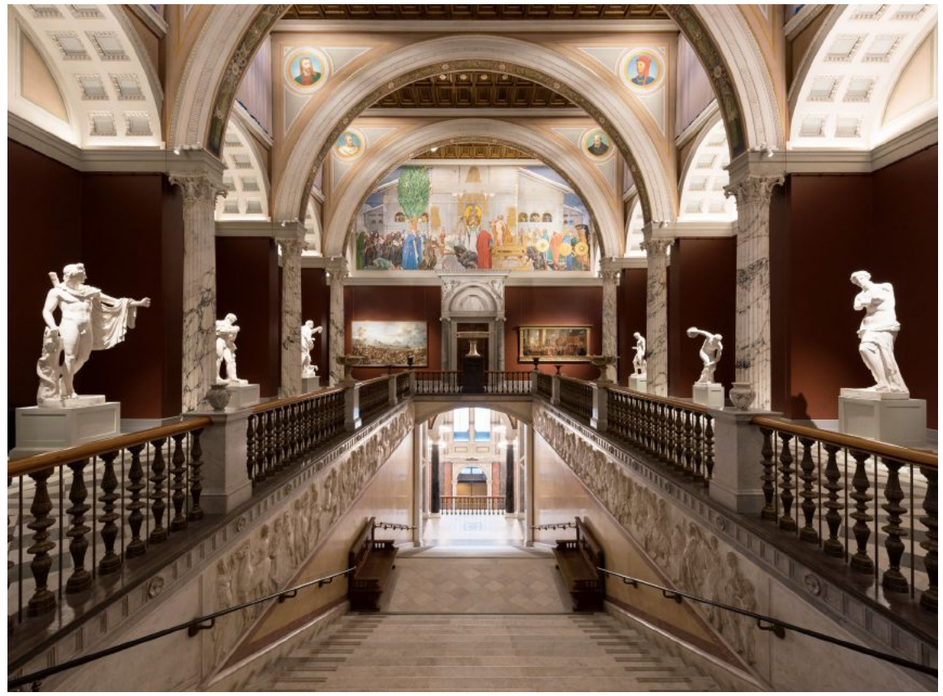


RECESSED HOUSING / POINT OUTLET

ceiling thickness: 1-30 mm

TYPE	ORDER CODE
recessed housing / point outlet	186-07227

Nationalmuseum Stockholm, SE –
by Wingårdhs with lighting design
by Gabriele von Kardorff



GERMAN DESIGN AWARD 2017

DESIGN AWARD 2017

PABLO colour tune / tunable white

track

EN Track light made of die-cast aluminium; powder coated; converter in spotlight housing; COB (Chip on Board) technology or CSP (Chip-Scale-Packaging) technology for maximum efficiency; no multiple shadows; energy-eff. LEDs – very good colour rendering; high quality aluminium refl., spherical facet finish; high-gloss anodised; precise radiation charact. – different beam angles; installed/exchanged without tools; optical attachments as accessories; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation optionally without tools by means of knurled screw or set screw (screwdriver required); point outlet, either in surface mounted housing or recessed housing, as an accessory

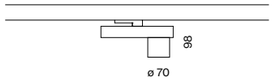
ES Proyector de carril electrificado de fundición de aluminio inyectado; recubierto de polvo; convertidor en carcasa de proyector; tecnología COB (Chip on Board) o CSP (Chip-Scale-Packaging) para la máxima eficiencia; no sombras múltiples; LED energét. efic. – excelente reprod. crom.; refl. alum. alta calidad, óptica facet. esfér.; anodiz. alto brillo; proyecc. precisa – distintos áng. de apertura; insertable / reemplaz. sin herramienta; los accesorios ópticos como accesorios; adaptador para instalación sin herramientas o desplazamiento en diferentes carriles electrificados de 3 fases; fijación de adaptador sin herramienta con tornillo moleteado o tornillo de sujeción (destornillador necesario); base para techo, opcionalmente en carcasa superpuesta o carcasa empotrada, como accesorio

Quickinfo

PABLO colour tune
3500 K red / blue
CRI ≥ 90, 3 SDCM
up to 54 lm/W
L95 @ 50 000 h
DALI-2

PABLO tunable white
TW 2700 – 5000 K
CRI ≥ 95, 3 SDCM
up to 48 lm/W
L80 @ 50 000 h
DALI-2 DT8

Type



Colours

Light distributions

Order options

ADAPTER FIXATION

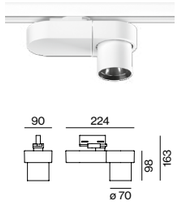
tool-free fixation	2
set screw (tool required)	1

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE

medium 20 / 24°	M
flood 38°	F



PABLO colour tune

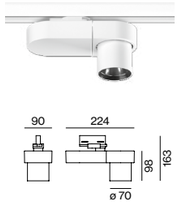
360° 310° | CRI ≥ 90 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

TRACK LIGHT

SYS. POWER	COLOUR TEMPERATURE	LUMINOUS FLUX	ORDER CODE
18.8 W	3500 K red / blue	1020 lm	1 8 0 - 5 6 ○ 0 G 3 ◪ ▲

Fresh colour for historical works of art

PABLO colour tune was developed to revitalise historical art, which is particularly worthy of protection, true to the original. An increased, individually adjustable red-blue saturation compensates for time-related colour damage – purely through the lighting. This reawakens the original colours of a work of art. The correct setting of PABLO colour tune can be easily controlled and adjusted via DALI-2.



PABLO tunable white

360° 310° | CRI ≥ 95 | DALI 2 ADDR. | 220-240V | X-PERT | X-PERT

TRACK LIGHT

SYS. POWER	COLOUR TEMPERATURE	LUMINOUS FLUX	ORDER CODE
20.7 W	2700 – 5000 K	954 lm	1 8 0 - 5 6 ○ 0 D 3 ◪ ▲

Optical accessories

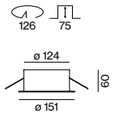
SNOOT | HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
snoot	62·33	0 8 0 - 5 9 0 0 0 0 8
honeycomb louver	61·3	0 8 0 - 5 9 0 0 0 1 8

Mounting accessories

SURFACE HOUSING / POINT OUTLET

TYPE	ORDER CODE
surface housing / point outlet	1 8 6 - 0 7 2 2 8 ◪



RECESSED HOUSING / POINT OUTLET
ceiling thickness: 1-30 mm

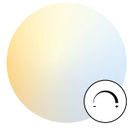
TYPE	ORDER CODE
recessed housing / point outlet	1 8 6 - 0 7 2 2 7 ◪

DiiA® standards
251, 252, 253

360° rotatable
245° / 65° tiltable

rotation lock

colour tune
(3500 K red / blue)



tunable white
2700 – 5000 K

LUMINOUS FLUX value calculated for colour white, reflector medium

Nationalmuseum Stockholm, SE –
by Wingårdhs with lighting design
by Gabriele von Kardorff

PABLO multilens

track

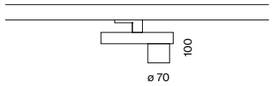
EN Track light made of die-cast aluminium; powder coated; 360° rotatable and 310° tiltable; converter installed in aluminium spotlight housing; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-eff. LEDs – very good colour rendering; exchangeable additional lenses; precise radiation characteristics with different beam angles; installed and exchanged without tools; optical attachments as accessories; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation optionally without tools by means of knurled screw or set screw (screwdriver required); point outlet, either in surface mounted housing or recessed housing, as an accessory

ES Proyector de carril electrificado de fundición de aluminio inyectado; recubierto de polvo; giratorio 360° y orientable 310°; convertidor montado en carcasa de proyector de aluminio; con tecnología COB (Chip on Board) para proporcionar una máxima eficiencia; no sombras múltiples; LED energét. efic. – excelente reprod. crom.; lentes reemplazables; característica de emisión precisa con diferentes ángulos de emisión; intercambiable sin herramienta; los accesorios ópticos como accesorios; adaptador para instalación sin herramientas o desplazamiento en diferentes carriles electrificados de 3 fases; fijación de adaptador sin herramienta con tornillo moleteado o tornillo de sujeción (destornillador necesario); base para techo, opcionalmente en carcasa superpuesta o carcasa empotrada, como accesorio

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 2 SDCM
up 76 lm/W
L85 @ 50 000 h
DIM POTI

Type



Colours

Light distributions

Order options

ADAPTER FIXATION

tool-free fixation	2
set screw (tool required)	1

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DIM POTI

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

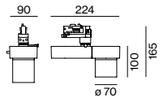
BEAM ANGLE

10 / 19 / 30 / 38 / 40 / 64°

Options on request

CONTROL

DALI-2

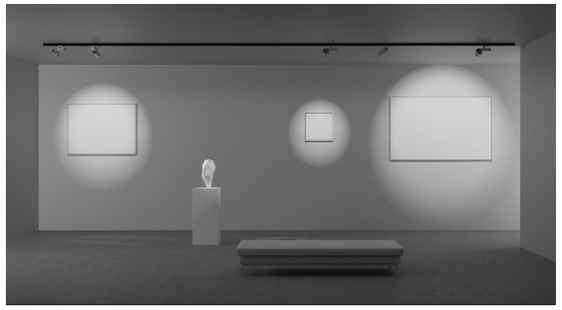


PABLO multilens 10–60°

TRACK LIGHT

SYS. POWER	COLOUR TEMPERATURE	LUMINOUS FLUX	ORDER CODE
14.8 W	3000 K	1050 lm	180-570 ○ 0 ⁘ 8 ◪
	4000 K	1130 lm	

incl. 5 pcs. interchangeable diffusion sheets



Optical accessories

OVAL FILTER

TYPE	ORDER CODE
oval filter 60 × 15°	080-5900020
diffusion sheet for superspot*	080-5900030

*for a better homogeneous illumination

Mounting accessories

SURFACE HOUSING / POINT OUTLET

TYPE	ORDER CODE
surface housing / point outlet	186-07228 ◪

RECESSED HOUSING / POINT OUTLET

ceiling thickness: 1-30 mm

TYPE	ORDER CODE
recessed housing / point outlet	186-07227 ◪

DiiA® standards 251, 252, 253

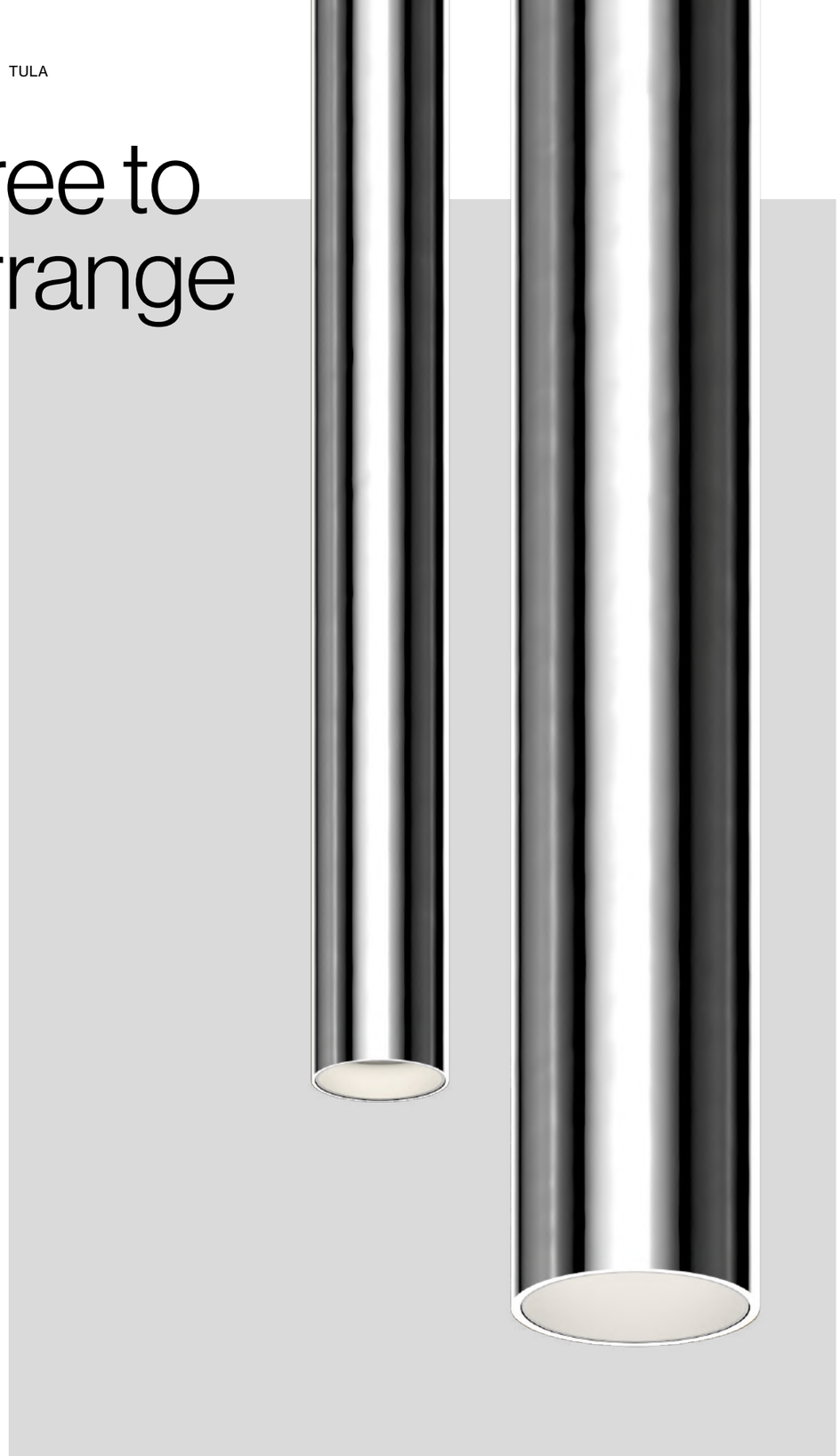
interchangeable diffusion sheets

360° rotatable 310° tiltable

DIM POTI / rotation lock

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, lens spot

Free to arrange



TULA

EN A suspended luminaire that gives more than “just” light. TULA immediately catches the eye with its decorative, slim shape. The luminaire is available in white, black, and chrome, as well as in numerous custom colours. Depending on your interior design, choose between the light colours 2700 K, 3000 K, or 4000 K. The position of the luminaires can be easily changed with additional hooks on the cable and rings on the ceiling, thus TULA always adapts itself to evolving conditions in the space or creates artistic patterns. TULA is also available as a lighting inset for the MOVE IT track system.

ES Una luminaria de suspensión que da da más que luz. TULA llama la atención de inmediato por su forma decorativa y esbelta. Esta luminaria está disponible en blanco, negro, cromo y en numerosos colores especiales. En función del diseño de interiores, pueden elegirse tres longitudes y temperaturas de color de 2700 K, 3000 K o 4000 K. Los ganchos adicionales en el cable y los anillos en el techo permiten variar fácilmente la posición de la luminaria, lo que le permite adaptarse siempre a nuevas distribuciones del espacio o crear patrones artísticos. TULA también está disponible como elemento individual para el sistema de carril MOVE IT.

Types

25
nano

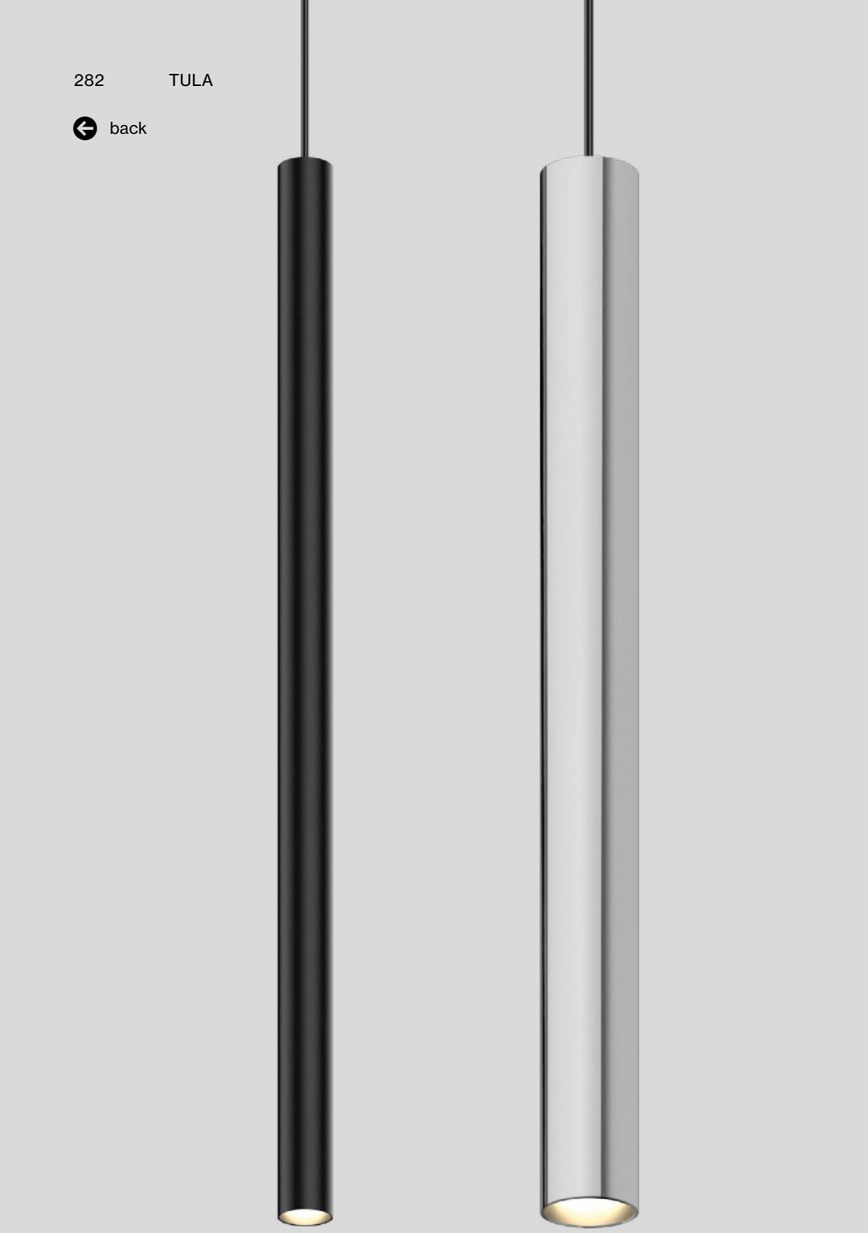
45
micro

Mounting

suspended

Light distribution

downlight



TULA

suspended

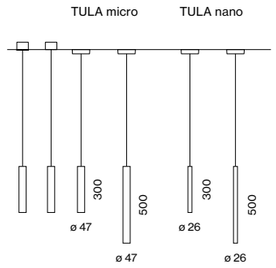
EN Decorative suspended luminaire in aluminium; surface polished chrome or powder coated; pendant fitting with suspension, incl. feed (black or white); can be individually shortened; good glare reduction due to recessed light point plane; incl. high quality lens system; COB (Chip on Board) technology or high power LEDs for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; canopy for through wiring; converter included in canopy, either recessed or surface mounted version; ceiling mounting rings for multiple positioning of the luminaire in the room available as accessory

ES Luminaria suspendida decorativa de aluminio; superficie cromada pulida o con recubrim. de pintura en polvo; suspensión pendular con cable de alim. (negro o blanco); acortable; buena prevenc. del deslumbram. con plano de punto de luz retranq.; óptica de alta calidad; proyec. precisa con distintos ángulos de apertura; tecnología COB (Chip on Board) para máxima eficiencia; sin sombras múltiples; LEDs eficientes de muy buena reproducción cromática; remate de techo para cableado; convert. integrado en remate, opcional. como variante empotrada o de superficie; anillos de montaje en techo opcionales para posicionam. múltiple de la luminaria en la sala

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
up to 95 lm/W
L80 @ 50 000 h
non DIM, DALI-2, Casambi

Types

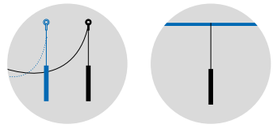


Colours

standard xal.com/colours

Light distributions

med. flood



free positioning by ring and hook — track version available (p. 742)

Order options

HOUSING HEIGHT L

300 mm	5
500 mm	7

SUSPENSION

cable 1500 mm

COLOUR TEMPERATURE

2700 K	4
3000 K	5

MATERIAL COLOUR

chrome	4
traffic white RAL 9016	7
jet black RAL 9005	8
special colours* → p. 992	X

*cable always in white

BEAM ANGLE

medium 25°	M
flood 44°	F

ACCESSORY COLOUR

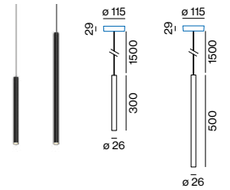
traffic white RAL 9016	7
jet black RAL 9005	8

Options on request

COLOUR TEMPERATURE

4000 K

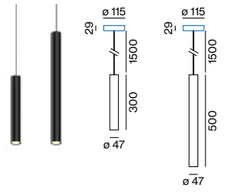
INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens flood 2700 K -5 %



TULA nano suspended

500mA

INSET POWER	LUMINOUS FLUX	ORDER CODE
9 W 18 Vf 500 mA	732 lm	049-5 L 10 ⁘ 1 ◪ ▲



TULA micro suspended

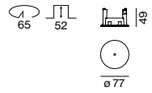
500mA

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.4 W 18 Vf 500 mA	798 lm	049-5 L 15 ⁘ 1 ◪ ▲

Mounting accessories

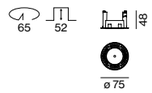
CANOPY CEILING 220–240 V AC, 50–60 Hz, PC I

TYPE	EFFICIENCY	Ø·H (mm)	ORDER CODE
500 mA | non DIM	η 79 %	115·29	005-260211 ■
500 mA | DALI-2	η 81 %	115·29	005-260213 ■
500 mA | Casambi	η 80 %	115·29	005-260219 ■



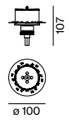
MOUNTING SET RECESSED WITH TRIM
for installation in ceilings from 2–25 mm

TYPE	Ø·H (mm)	ORDER CODE
mounting set with trim	77·49	005-352101 ■



MOUNTING SET RECESSED TRIMLESS
for installation in plasterboard ceilings 9–25 mm

TYPE	Ø·H (mm)	ORDER CODE
mounting set trimless	75·48	005-351017



SPECIAL MOUNTING TOOL

TYPE	Ø·H (mm)	ORDER CODE
special mounting tool	100·9	063-891211 0

necessary to install mounting set trimless

RING

TYPE	Ø·H (mm)	ORDER CODE
ceiling mounted	50·88	050-051021 ■

HOOK

TYPE	L·W·H (mm)	ORDER CODE
ceiling mounted	18·13·58	050-590111 ■

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
500 mA | non DIM	η 80 %	65·39·20	002-90732
500 mA | DALI-2	η 82 %	147·33·23	002-90733

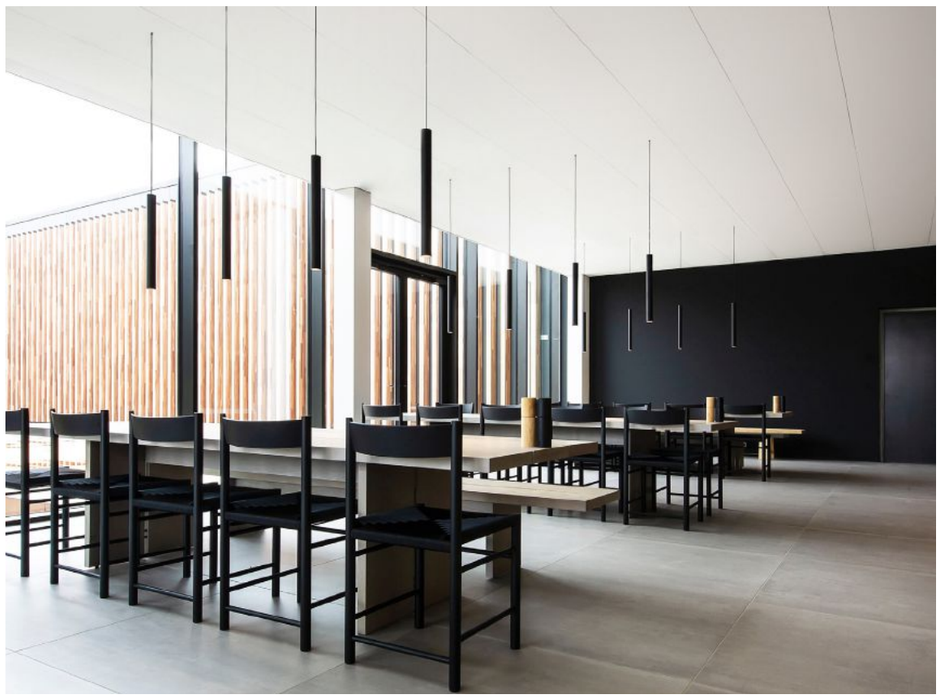
DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652021 0
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-612103 0

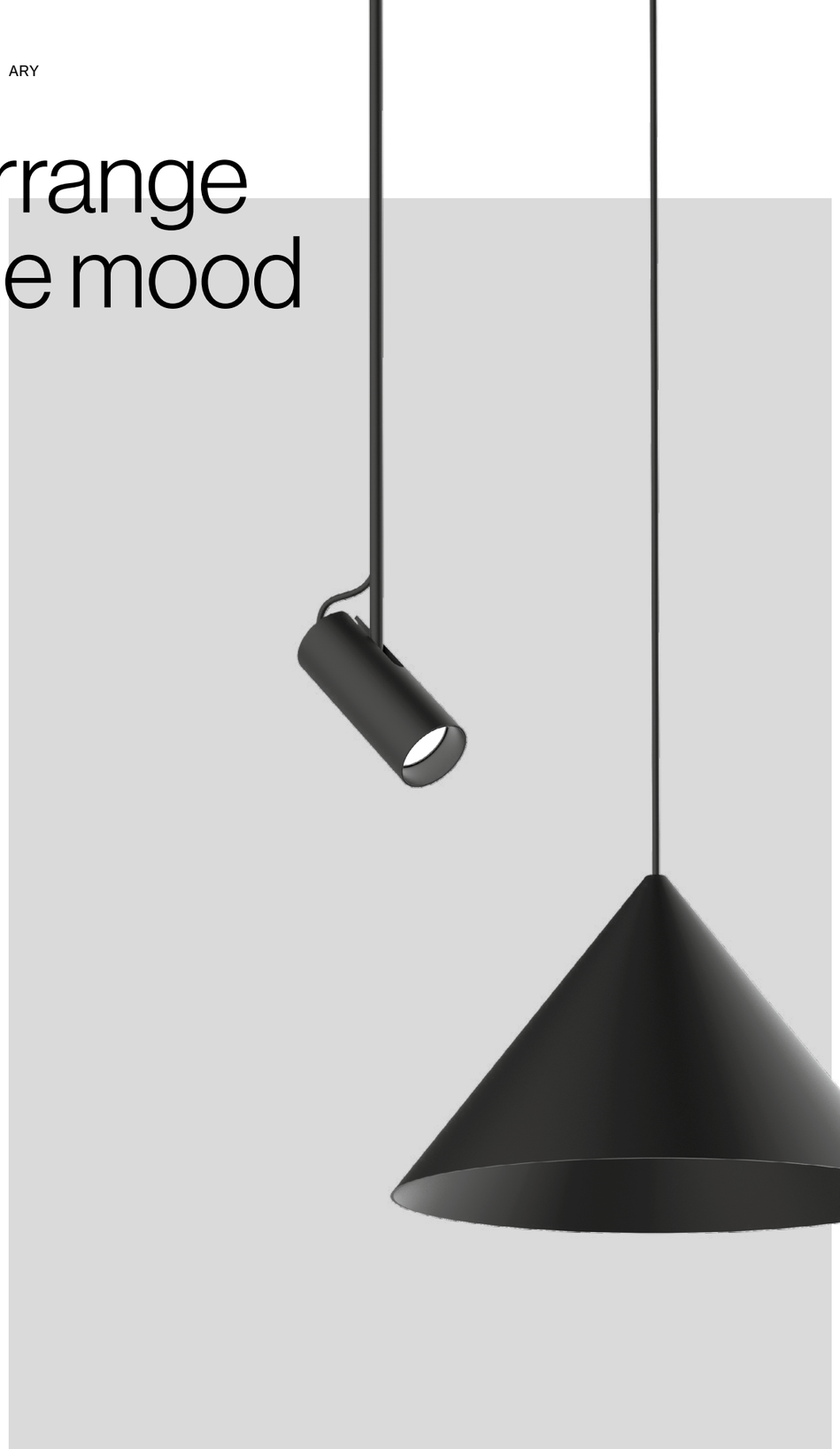
for more details and components see page 981

Casino Dusseldorf, DE –
by ttsp hwp seidel Planungsgesellschaft mbH
with lighting design by Licht Kunst Licht AG

Global Timber Århus, DK –
by RAVN architects with lighting
design by Rikke Sølvsteen



Arrange the mood

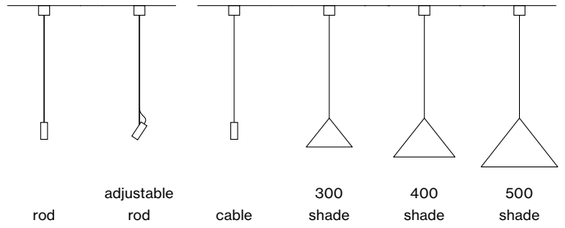


ARY

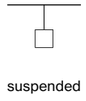
EN ARY simultaneously serves lighting and decor. The suspended spotlight luminaire amazes with various selectable beam characteristics and excellent colour rendering (CRI ≥ 90). ARY's adjustable rod variant is maximally mobile. The spotlight head can be turned by 320° and tilted by 90°. The cable variant offers a choice of different shades to match the colour and size perfectly to your interior design. Separate ceiling rings create even more design freedom. The lights can be repositioned at will and grouped into exciting arrangements using the hooks. ARY is also available as a light inset for the elegant MOVE IT track system.

ES ARY es iluminación y un objeto de decoración al mismo tiempo. Esta luminaria de foco suspendida seduce por sus diversos ángulos de proyección, por su elegante diseño y una excelente reproducción cromática (CRI ≥ 90). En su versión orientable, ARY ofrece una flexibilidad excepcional: el cabezal del proyector puede girarse 320° e inclinarse 90°. La versión en suspensión dispone de una selección de pantallas que permiten armonizar el color y tamaño con la arquitectura del espacio a la perfección. Adicionalmente, podemos instalar la luminaria con unas anillas de techo que proporcionan una mayor libertad de diseño, permitiendo reposicionar las luminarias una y otra vez mediante ganchos y agruparlas en elegantes configuraciones. ARY también está disponible como elemento independiente para el elegante sistema de carril MOVE IT.

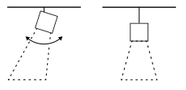
Types

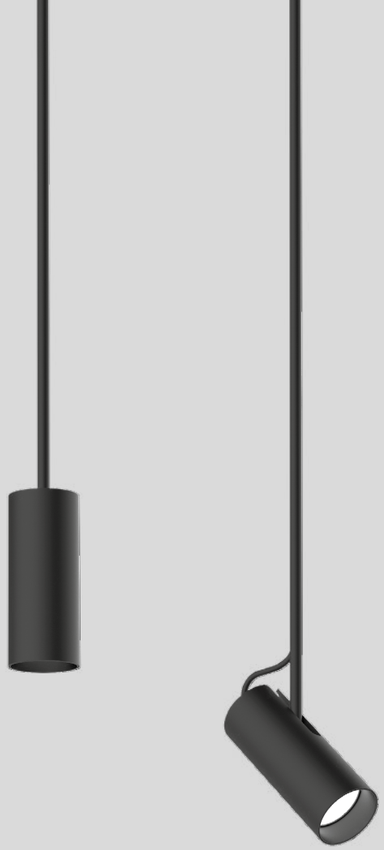


Mounting



Light distributions

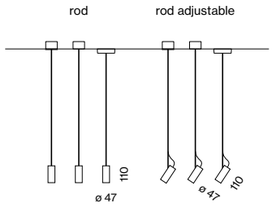




Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 95 lm/W
L90 @ 50 000 h
non DIM, DALI-2, Casambi

Types



Colours

standard xal.com/colours

Light distributions

med. flood

Order options

MOUNTING

suspension 1500 mm	1
suspension 2000 mm with hook*	2

*one ring included

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours* p. 992	X

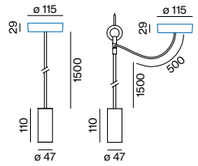
*rod always in white

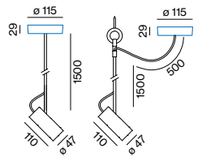
ACCESSORY COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE

medium 25°	M
flood 44°	F





ARY rod suspended

CRI ≥ 90 | DALI 1 ADDR. | 500 mA | IP20 | X-PERT

DOWNLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.4 W 18 Vf 500 mA	791 lm	049-52121▲

ARY adjustable rod suspended

320° 90° | CRI ≥ 90 | DALI 1 ADDR. | 500 mA | IP20 | X-PERT

SPOTLIGHT ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.4 W 18 Vf 500 mA	791 lm	049-53121▲

Mounting accessories

CANOPY CEILING 220–240 V AC, 50–60 Hz, PC I

TYPE	EFFICIENCY	Ø-H (mm)	ORDER CODE
500 mA | non DIM	η 79 %	115·29	005-260111■
500 mA | DALI-2	η 81 %	115·29	005-260113■
500 mA | Casambi	η 80 %	115·29	005-260119■

use for suspension with rod

CANOPY CEILING 220–240 V AC, 50–60 Hz, PC I

TYPE	EFFICIENCY	Ø-H (mm)	ORDER CODE
500 mA | non DIM	η 79 %	115·29	005-260211■
500 mA | DALI-2	η 81 %	115·29	005-260213■
500 mA | Casambi	η 80 %	115·29	005-260219■

use for suspension with hook

MOUNTING SET WITH TRIM for installation in ceilings from 2–25 mm

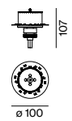
TYPE	Ø-H (mm)	ORDER CODE
single luminaire rod	77·49	005-352201■
single luminaire cable*	77·49	005-352101■

*use for suspension with hook

MOUNTING SET TRIMLESS for installation in plasterboard ceilings 9–25 mm

TYPE	Ø-H (mm)	ORDER CODE
single luminaire rod	75·48	005-351201■
single luminaire cable*	75·48	005-351101■

*use for suspension with hook



SPECIAL MOUNTING TOOL

TYPE	Ø-H (mm)	ORDER CODE
special mounting tool	100·9	063-891211■

necessary to install mounting set trimless

RING

TYPE	Ø-H (mm)	ORDER CODE
ceiling mounted	50·88	050-051021■

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, PC II

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
500 mA | non DIM	η 80 %	65·39·20	002-90732
500 mA | DALI-2	η 82 %	147·33·23	002-90733

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-652021■
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-612103■

for more details and components see page 981

DESIGN AWARD 2020

reddot winner 2020

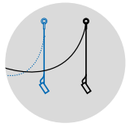
ARY rod

suspended

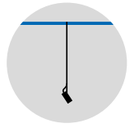
EN Decorative suspended luminaire in aluminium; surface powder coated; height adjustable U-profile pendant rod suspension (black or white), feed in U-profile; spotlight head either fixed or 320° rotatable and 90° tiltable; good glare reduction due to recessed light point plane; incl. high quality lens system; precise radiation characteristics with different beam angles; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; canopy for through wiring; converter included in canopy; ceiling mounting rings for multiple positioning of the luminaire in the room available as accessory

ES Luminaria suspendida decorativa de aluminio; superficie con recubrimiento de pintura en polvo; suspensión de barra pendular acortable con perfil en U (negro o blanco), cable de alimentación en perfil en U; cabezal de foco fijo o girable a 320°/inclin. a 90°; buena prevenc. del deslumbram. con plano de punto de luz retranqueado; óptica de alta calidad; proyección precisa con distintos ángulos de apertura; tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras múltiples; LEDs eficientes de muy buena reproducción cromática; remate de techo para cableado; convert. integrado en remate; anillos de montaje en techo opcionales para posicionamiento múltiple de la luminaria en la sala

320° rotatable, 90° tiltable



free positioning by ring and hook



track version available (p. 734)

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens flood 2700 K -5 %, 4000 K +5 %

Restaurant Le Prestine Antwerp, BE –
by Space Copenhagen
with lighting design by anker & co

Restaurant Vineo Oldenburg, DE –
by neun grad architektur with lighting design
by CapitalReal Immobilien GmbH & Co. KG, Dennis Poelmeyer

DESIGN AWARD 2020

reddot winner 2020

ARY cable

suspended

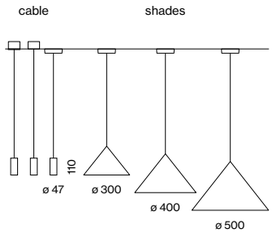
EN Decorative suspended luminaire in aluminium; surface powder coated; pendant fitting with suspension, incl. feed (black or white); can be individually shortened; good glare reduction due to recessed light point plane; high quality lens system; precise radiation characteristics with different beam angles; shades as accessory in RAL colours velvet beige, madeira brown, kingfisher grey, woodpecker olive, signal white or signal black; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; efficient LEDs with very good colour rendering; canopy for through wiring; converter included in canopy; ceiling mounting rings for multiple positioning of the luminaire in the room available as accessory

ES Luminaria suspendida decorativa de aluminio; superficie con recubrim. de pintura en polvo; suspensión pendular con cable de aliment. (negro o blanco); acortable; buena prevenc. del deslumbram. con plano de punto de luz retranqueado; óptica de alta calidad; proyección precisa con distintos ángulos de apertura; pantallas en colores RAL velvet beige, madeira brown, kingfisher grey, woodpecker olive, signal white o signal black como accesorios; tecnología COB (Chip on Board) para la máxima eficiencia; sin sombras; LEDs eficientes de muy buena reproducción cromática; remate de techo para cableado; convert. integrado en remate; anillos de montaje en techo opcionales para el posicionamiento múltiple de la luminaria en la sala

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 95 lm/W
L90 @ 50 000 h
non DIM, DALI-2, Casambi

Types



Colours

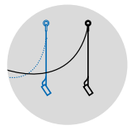
standard

xal.com/colours

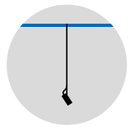
shades

Light distributions

med. flood



free positioning by ring and hook



track version available (p. 736)

Order options

MOUNTING

suspension 1500 mm	1
suspension 2000 mm with hook*	2

*one ring included

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

MATERIAL COLOUR

traffic white RAL 9016	7
jet black RAL 9005	8
special colours* p. 992	X

*cable always in white

SHADE COLOUR

velvet beige RAL 085 80 10	C
madeira brown RAL 050 40 40	T
kingfisher grey RAL 230 60 10	L
woodpecker olive RAL 105 0 20	G
signal white RAL 9003	W
signal black RAL 9004	B

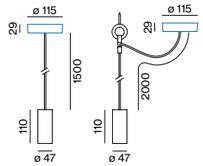
ACCESSORY COLOUR

traffic white RAL 9016	7
jet black RAL 9005	8

BEAM ANGLE

medium 25°	M
flood 44°	F

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens flood 2700 K -5 %, 4000 K +5 %



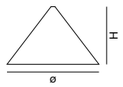
ARY cable suspended

CRI ≥ 90 | DALI 1 ADDR. | 500 mA | IP20 | X-PERT

DOWNLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
8.4 W 18 Vf 500 mA	791 lm	049-5 6 1 1 :: 1 ◪ ▲

Optical accessories



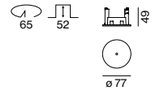
SHADE

TYPE	Ø·H (mm)	ORDER CODE
cone 300	300·188	049-593311 ▬
cone 400	400·253	049-593411 ▬
cone 500	500·318	049-593511 ▬

Mounting accessories

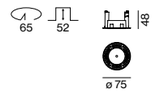
CANOPY CEILING 220–240 V AC, 50–60 Hz, PC I

TYPE	EFFICIENCY	Ø·H (mm)	ORDER CODE
500 mA | non DIM	η 79 %	115·29	005-260211 ■
500 mA | DALI-2	η 81 %	115·29	005-260213 ■
500 mA | Casambi	η 80 %	115·29	005-260219 ■



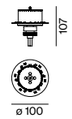
MOUNTING SET RECESSED WITH TRIM
for installation in ceilings from 2–25 mm

TYPE	Ø·H (mm)	ORDER CODE
mounting set with trim	77·49	005-352101 ■



MOUNTING SET RECESSED TRIMLESS
for installation in plasterboard ceilings 9–25 mm

TYPE	Ø·H (mm)	ORDER CODE
mounting set trimless	75·48	005-3511017



SPECIAL MOUNTING TOOL

TYPE	Ø·H (mm)	ORDER CODE
special mounting tool	100·9	063-8912110

necessary to install mounting set trimless

RING

TYPE	Ø·H (mm)	ORDER CODE
ceiling mounted	50·88	050-051021 ■

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
500 mA | non DIM	η 80 %	65·39·20	002-90732
500 mA | DALI-2	η 82 %	147·33·23	002-90733

DIN RAIL COMPONENTS

TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	005-6520210
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	005-6121030

for more details and components see page 981

Colliers Real-estate Copenhagen, DK – by Architect Helle Nøhr with lighting design by anker & co

Get on track

TRACK 3-phase

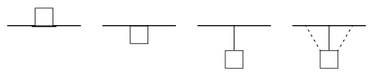
EN A particularly elegant and versatile track system. The three-phase track is available in square, round, or H-shaped profile form. The surface-mounted and suspended versions deliver further design freedom when combined with curved and corner connectors. The suspended H-profile enables exciting ceiling accentuation through optional light insets on the top of the profile. In many variants, the adapter disappears entirely in the profile and supports the reduced look. The high-quality appearance is enhanced by choosing between the colours white, grey, and black.

ES Un sistema de carril de cuidado diseño que se distingue por su versatilidad. El carril trifásico está disponible en perfiles cuadrados, redondos o en forma de H. Las versiones de superficie y suspensión, combinadas con conectores curvos y de esquinas proporcionan una total libertad de diseño. El perfil suspendido en H hace posible una acentuación del techo con elementos instalados en su parte superior. En varias versiones, el adaptador desaparece por completo en el perfil, resaltando el estilo minimalista de la luminaria. Su aspecto de gran elegancia se acentúa con una acabados en blanco, gris y negro.

Types

30x40 45 30x80

Mountings

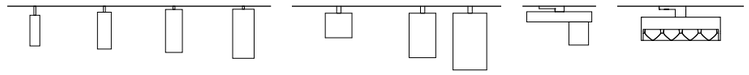


recessed surface suspended indirect suspended

Configurations

linear corner curve

Compatible spotlights

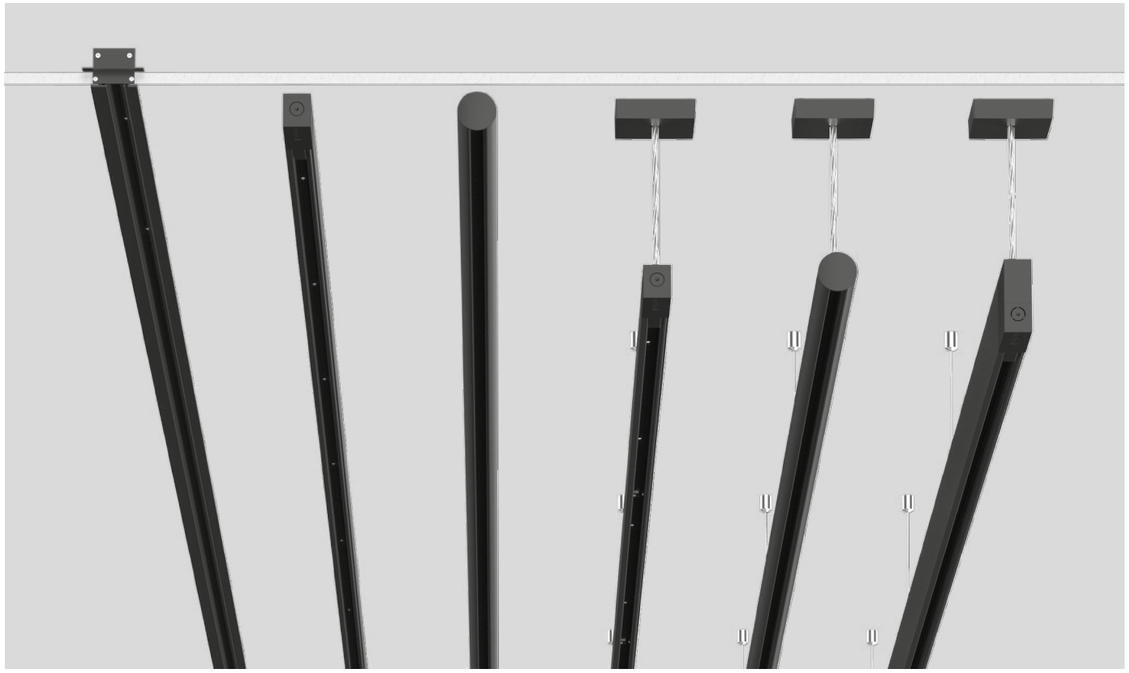


BO 32 BO 45 BO 55 BO 70 VARO 80 S VARO 80/110 PABLO SQUADRO

Mounting options

EN The three-phase tracks are available as recessed, surface-mounted, and suspended versions.

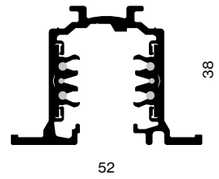
ES Los carriles trifásicos están disponibles en versiones empotradas, de superficie y suspendidas.

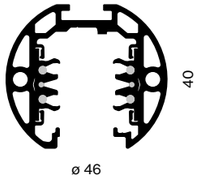


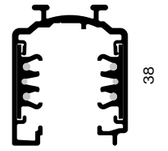
Track variety

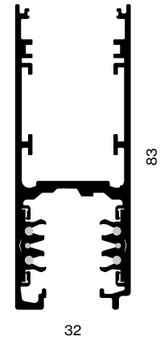
EN Available in round, square, and H-shape, the profile offers custom application options. Concealing the adapter in the profile creates a visually calm ceiling image. This concealment is available in the surface-mounted and suspended variants, in both the round and square forms. The unique feature of the suspended H-profile is that it can create indirect light by mounting, without tools, lighting insets on the top.

ES El perfil ofrece innumerables posibilidades de uso gracias a sus modelos redondos, cuadrados o en forma de H. En las versiones de superficie o suspendida –disponibles en forma redonda y cuadrada–, el adaptador oculto en el perfil permite obtener un patrón de techo de aspecto sosegado. La particularidad del perfil suspendido en H es que los aparatos también pueden montarse sin herramientas en la parte superior con el fin de proyectar luz indirecta.





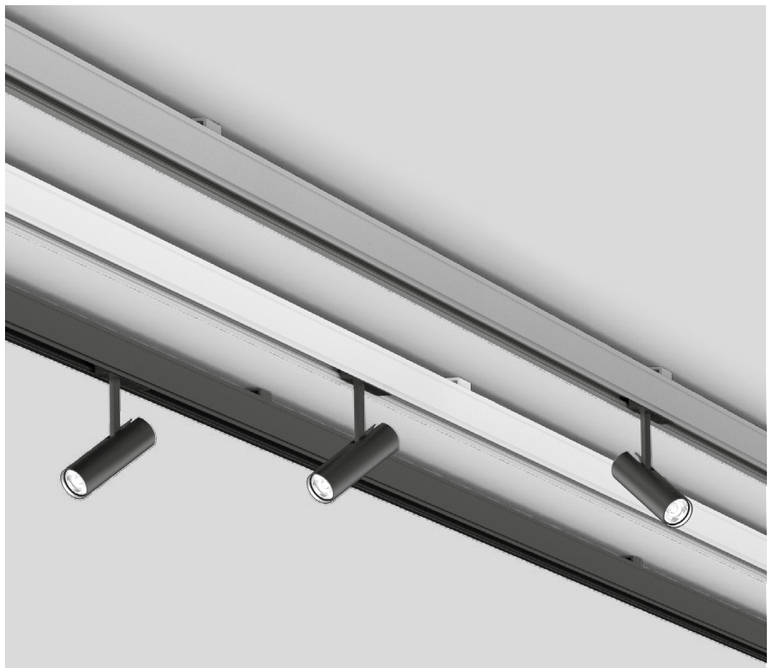




Curve and corner elements

EN Additional creative design options are opened when combined with curve and corner elements. The lighting system can thus be adapted to the different contours of the respective architecture.

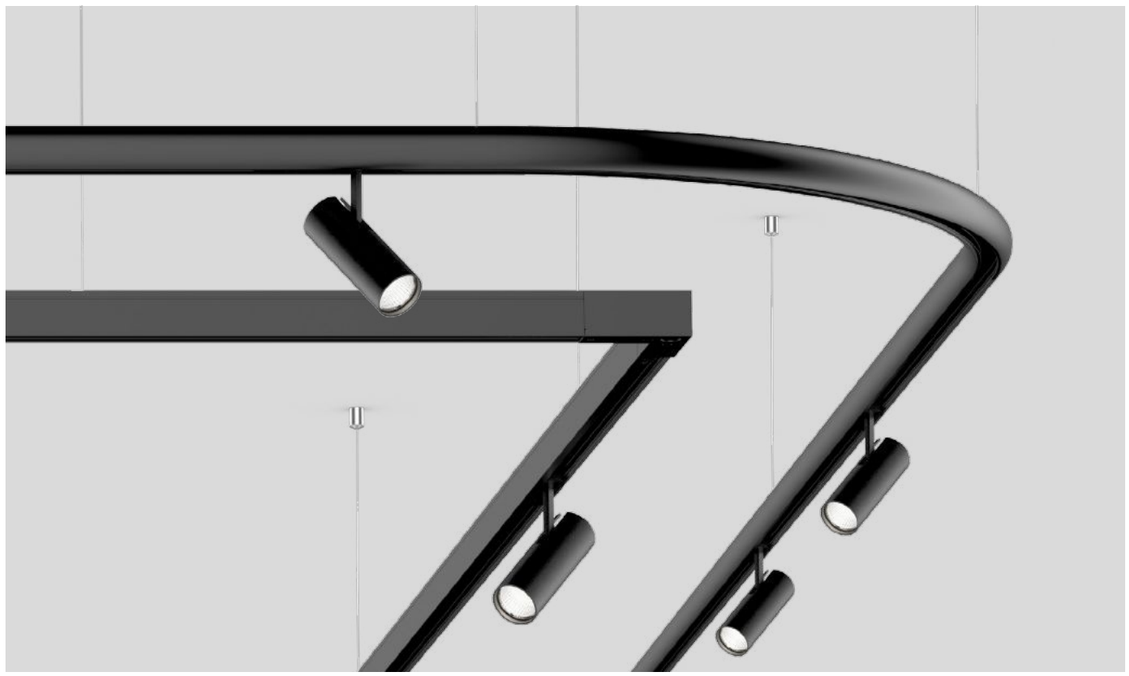
ES La combinación con elementos curvos y en 90° hace posible aún más opciones de diseño. Esto permite adaptar el sistema de iluminación a las necesidades propias de la arquitectura de la sala.



Colour variety

EN Tracks are available in different standard colours: white, grey, and black.

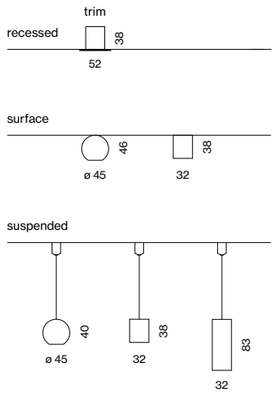
ES Los carriles están disponibles en los colores estándar blanco, gris y negro.



back

TRACK 3-phase
recessed / surface / suspended

Types



Colours

curve connector

optimised adapter integration

back

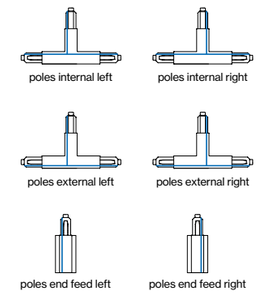
TRACK
recessed

Order options

CONTROL
non DIM
DALI-2

MATERIAL COLOUR
○ pure white RAL 9010 7
● jet black RAL 9005 8

Pole options



TRACK 3-phase / 3-phase + DALI-2-bus

TRACK 240V-16A

L (mm)	ORDER CODE
2000	186-012213
3000	186-012313
4000	186-012413
end cap	186-022011
end feed left	186-022313
end feed right	186-022413
middle feed	186-021323

CONNECTORS 240V-16A

TYPE	ORDER CODE
linear connector	186-021113
I-connector	186-022123
L-connector right	186-022133
L-connector left	186-022233
T-connector right (poles internal)	186-022143
T-connector left (poles internal)	186-022243
T-connector right (poles external)	186-022173
T-connector left (poles external)	186-022273
X-connector	186-022153

MOUNTING ACCESSORIES

TYPE	ORDER CODE
clip	186-0225110
cutting tool	186-0219110

back

TRACK
surface/suspended

Order options

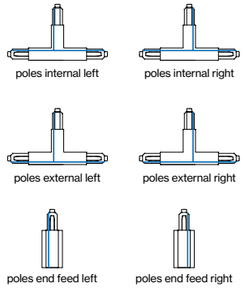
CONTROL

non DIM
DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● white aluminium RAL 9006	6
● jet black RAL 9005	8

Pole options



TRACK 3-phase/3-phase + DALI-2-bus

1 ADDR. | 220-240V | CB | EAC

TRACK 240V-16A

L (mm)	ORDER CODE
1000	186-011123
2000	186-011223
3000	186-011323
4000	186-011423
end cap	186-021011
end feed left	186-021313
end feed right	186-021413
middle feed*	186-021323

*only available in white and black

CONNECTORS 240V-16A

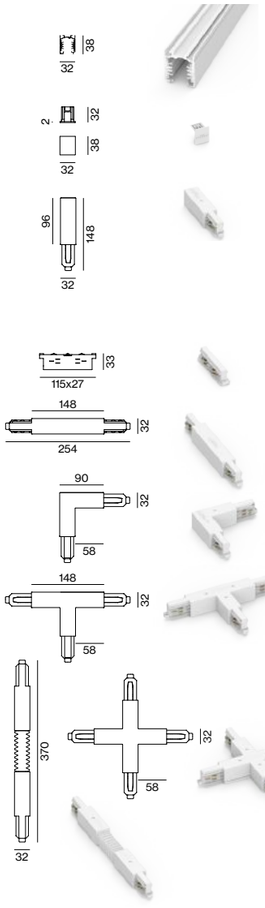
TYPE	ORDER CODE
linear connector	186-021113
I-connector	186-021123
L-connector right	186-021133
L-connector left	186-021233
T-connector right (poles internal)	186-021143
T-connector left (poles internal)	186-021243
T-connector right (poles external)	186-021173
T-connector left (poles external)	186-021273
X-connector	186-021153
adjustable corner connector	186-021163

MOUNTING ACCESSORIES

TYPE	ORDER CODE
ceiling clip	186-021511
pendant clip cable	186-021521
pendant clip rod	186-021541
joiner piece cable	186-021531
joiner piece rod	186-021551
cutting tool	186-0219110

SUSPENSION KIT

TYPE	ORDER CODE
pendant 1000	186-021611
cable 1500	186-0217110
cable 3000	186-0217210
cable 6200	186-0217310



back

TRACK high
surface/suspended

Order options

CONTROL

non DIM
DALI-2

MATERIAL COLOUR

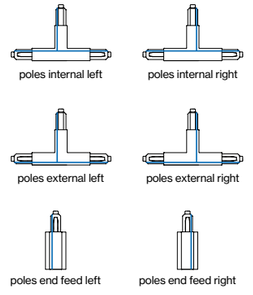
○ pure white RAL 9010	7
● jet black RAL 9005	8

Options on request

LIGHT OPTIC COVER

inset indirect

Pole options



TRACK high 3-phase/3-phase + DALI-2-bus

1 ADDR. | 220-240V | CB | EAC

TRACK 240V-16A

L (mm)	ORDER CODE
1000	186-016113
2000	186-016213
3000	186-016313
4000	186-016413
end cap	186-026011
end feed left	186-026313
end feed right	186-026413
middle feed	186-021323

CONNECTORS 240V-16A

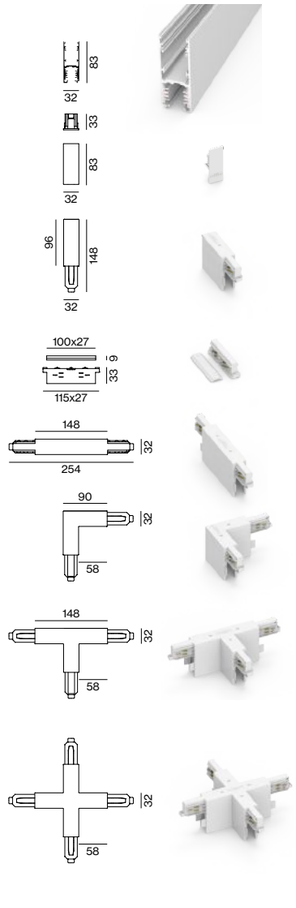
TYPE	ORDER CODE
linear connector	186-026113
I-connector	186-026123
L-connector right	186-026133
L-connector left	186-026233
T-connector right (poles internal)	186-026143
T-connector left (poles internal)	186-026243
T-connector right (poles external)	186-026173
T-connector left (poles external)	186-026273
X-connector	186-026153

MOUNTING ACCESSORIES

TYPE	ORDER CODE
pendant clip cable	186-0265210
pendant sheet metal clip	186-0215220
pendant clip rod	186-0265410
joiner piece cable	186-0265310
joiner piece rod	186-0265510
cutting tool	186-0219110

SUSPENSION KIT

TYPE	ORDER CODE
pendant 1000	186-021611
cable 1500	186-0217110
cable 3000	186-0217210
cable 6200	186-0217310



back

TRACK round
surface/suspended

Order options

CONTROL

non DIM
DALI-2

MATERIAL COLOUR

○ pure white RAL 9010 7
● jet black RAL 9005 8

Options on request

CONNECTOR

T-connector
X-connector

MATERIAL COLOUR

● gold dust RAL 260-M

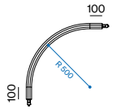
TRACK round 3-phase / 3-phase + DALI-2-bus

TRACK 240V-16A

L (mm)	ORDER CODE
1000	186-015113
2000	186-015213
3000	186-015313
4000	186-015413

TRACK CURVE 240V-16A

TYPE	ORDER CODE
R 500 90° left	186-015853
R 500 90° right	186-015863



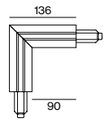
end cap	186-025011

end feed left	186-025313
end feed right	186-025413
middle feed	186-021323

CONNECTORS 240V-16A

TYPE	ORDER CODE
linear connector	186-021113

L-connector right	186-025133
L-connector left	186-025233



MOUNTING ACCESSORIES

TYPE	ORDER CODE
pendant clip cable	186-025521
pendant clip rod	186-025541
joiner piece cable	186-025531
joiner piece rod	186-025551
cutting tool	186-0219110

SUSPENSION KIT

TYPE	ORDER CODE
pendant 1000	186-021611
cable 1500	186-0217110
cable 3000	186-0217210
cable 6200	186-0217310

Vendrella Store Munich, DE – by Gruschwitz

Luminaires

Luminaires

MITA

NEW 314 recessed ceiling

COMBO

334 recessed

VELA

342 surface suspended

SONO

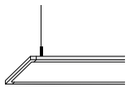
356 recessed surface loop surface

FLOW

374 surface

JANE

NEW 380 semi-recessed surface suspended

DESO

NEW 394 suspended

TASK

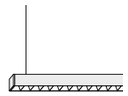
400 surface / acoustic

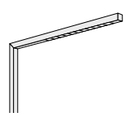
suspended / acoustic

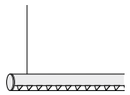
wall

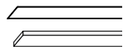
free standing

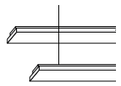
table

BETO

460 suspended


free standing

SETA

NEW 484 suspended

LENO

490 recessed semi-recessed


surface / suspended

MINIMAL

508 recessed

FRAME

516 recessed trim

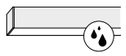
CANYON

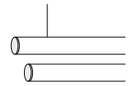
526 recessed offset

MINO

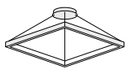
532 surface / suspended

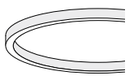
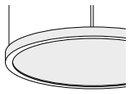
BASO


556 recessed surface

TUBO

NEW 568 surface / suspended

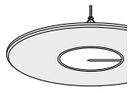
INO


580 circle suspended square suspended

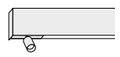
MINO CIRCLE


594 ceiling/ acoustic suspended/ acoustic

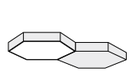
LITO

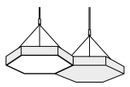
610 suspended

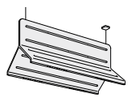
SONIC


616 suspended/ acoustic free standing/ acoustic

LINEA

NEW 632 wall

HEX-O

638 ceiling/ acoustic


suspended/ acoustic

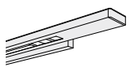
MUSE

654 acoustic suspended

STRETTA

670 surface

CORNER

676 surface

RECOVER

682 wall

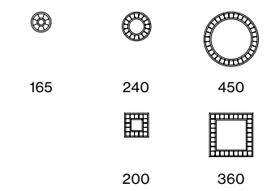
Discreet perfection

MITA

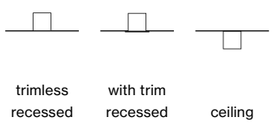
EN MITA combines high performance with a slim design language and its wide range of applications is impressive. The product family is available as recessed or surface-mounted luminaires in a round or square design. All the versions of the luminaire have special reflectors for the best screen-compatible work lighting – perfect for use in offices or meeting rooms. MITA circle 160 recessed and its central extension also open up a wide range of new possibilities. Optional accessories can be added: covers, sensors for smart lighting control, emergency lighting inserts, or SASSO 60 spotlights with various reflectors. The product family is available in the light colours 3000 K, 4000 K, or Tunable White. Optionally, the luminaire can be equipped with a presence and brightness sensor.

ES MITA aúna potencia con formas estilizadas y cautiva por sus flexibilidad. La familia de productos incluye luminarias empotrables y de superficie redondas o cuadradas. En todos sus modelos, esta luminaria dispone de unos reflectores especiales que proporcionan una iluminación de alta calidad que evita el deslumbramiento en espacios de trabajo, por lo que es perfecta para la utilización en oficinas y salas de reuniones. Con MITA circle 160 recessed se abren además muchas nuevas posibilidades mediante una ampliación en el centro. Otros accesorios pueden añadirse en función de las necesidades: difusores, sensores para el control inteligente de la iluminación, accesorios para iluminación de emergencia o focos SASSO 60 con distintos reflectores. La familia de productos está disponible en temperaturas de color de 3000 K y 4000 K o como opción Tunable White. La luminaria puede equiparse opcionalmente con un sensor de presencia y luminosidad.

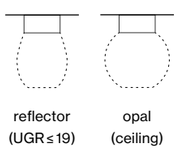
Types



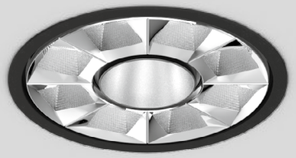
Mountings

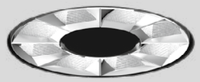


Light distributions



back





MITA circle 160

recessed

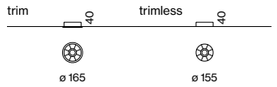
EN Ring shaped luminaire housing in die-cast aluminium; extremely slim design; recessed luminaire with trim (suitable for ceiling thickness of 2-25 mm); or for trimless installation in plasterboard ceilings (suitable for ceiling thickness of 12.5/15/20/25 mm); surface powder coated; incl. blind cover made of plastic in the cut-out; optional: SASSO 60 round, SASSO 60 round sensor or SASSO 60 round emergency for installation in the cut-out available as an accessory; high-gloss reflector with faceted design; energy-efficient LEDs with very good colour rendering

ES Cuerpo con forma de anillo y fabricado en aluminio; forma extremadamente esbelta; luminaria empotrable con marco (para instalación en techos de 2-25 mm de grosor); o para montaje sin marco en techos de escayola (para instalación en techos con grosor de 12,5/15/20/25 mm); superficie con recubrimiento de pintura en polvo; con cubierta opaca de plástico en el recorte de techo; opcional: SASSO 60 round, SASSO 60 round sensor o SASSO 60 round emergency para la inserción en el recorte de techo disponible como accesorio; reflector de alto brillo con óptica facetada; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 134 lm/W
L95 @ 50 000 h
non DIM, DALI-2
reflector (UGR ≤ 19)

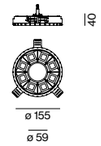
Types



Colours

Light distribution

Order options



COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	D

*DALI-2 DT8

CONTROL

non DIM
DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 19)

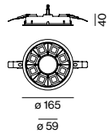
Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

GRID CEILING MOUNTING

installed in module 600 × 600 mm
installed in module 625 × 625 mm



MITA circle 160 trimless

DIRECT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6.6 W 22 Vf	3000 K	1120 lm	0 7 4 - 8 2 2 2 ⁚ 1 ◪ R
300 mA	4000 K	1180 lm	

MITA circle 160 trim

DIRECT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6.6 W 22 Vf	3000 K	1120 lm	0 7 4 - 8 1 2 2 ⁚ 1 ◪ R
300 mA	4000 K	1180 lm	

Electrical accessories

POWER SUPPLY 220-240 V AC, 50-60 Hz, ⧈ PC II

TYPE	EFFICIENCY	L·W·H (mm)	ORDER CODE
300 mA | non DIM	η 89 %	147·44·22	0 0 2 - 9 1 1 2 2
300 mA | DALI-2	η 87 %	97·43·30	0 0 2 - 9 1 1 2 0
375 mA | DALI-2 DT8	η 83 %	129·79·30	0 0 2 - 9 1 1 2 1

DIN RAIL COMPONENTS

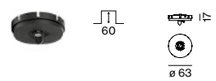
TYPE	W·H·D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 96 W | 48 V DC constant voltage	90·90·60	0 0 5 - 6 5 2 0 2 1 0
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2 × 42 W | 48 V DC | U_{OUT} 10–40 V	36·88·59	0 0 5 - 6 1 2 1 0 3 0

for more details and components see page 981

Accessories

SASSO 60 SPOTLIGHT

TYPE	ORDER CODE
SASSO 60 round adjustable	see page 120
SASSO 60 round downlight	see page 120

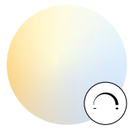


SASSO 60 SENSOR

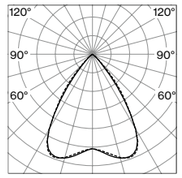
TYPE	ORDER CODE
SASSO 60 ESSENTIAL sensor	see page 124
SASSO 60 SENSE sensor	see page 124

SASSO 60 EMERGENCY LIGHT

TYPE	ORDER CODE
SASSO 60 emergency light	see page 124



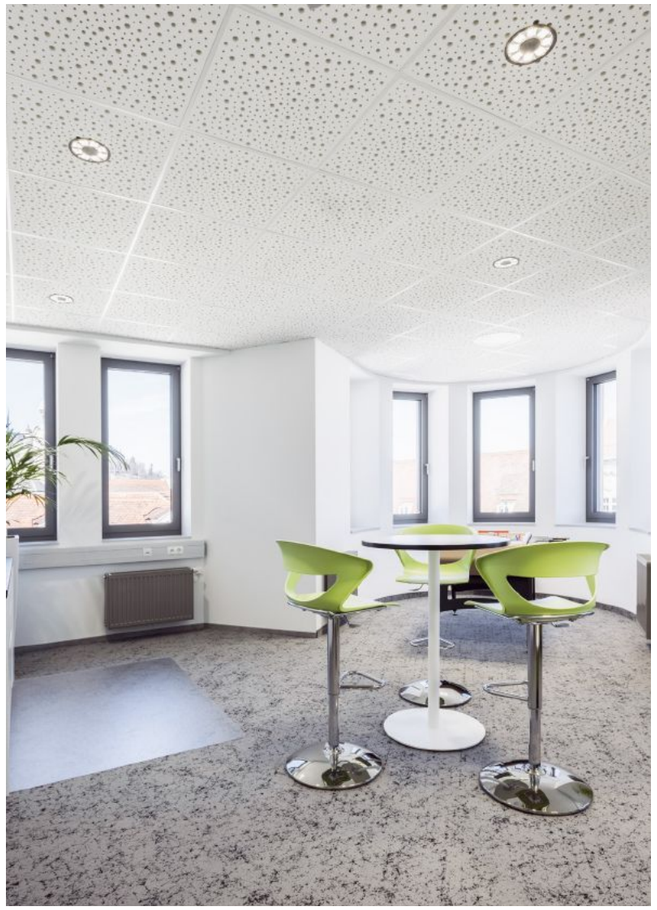
Light distribution

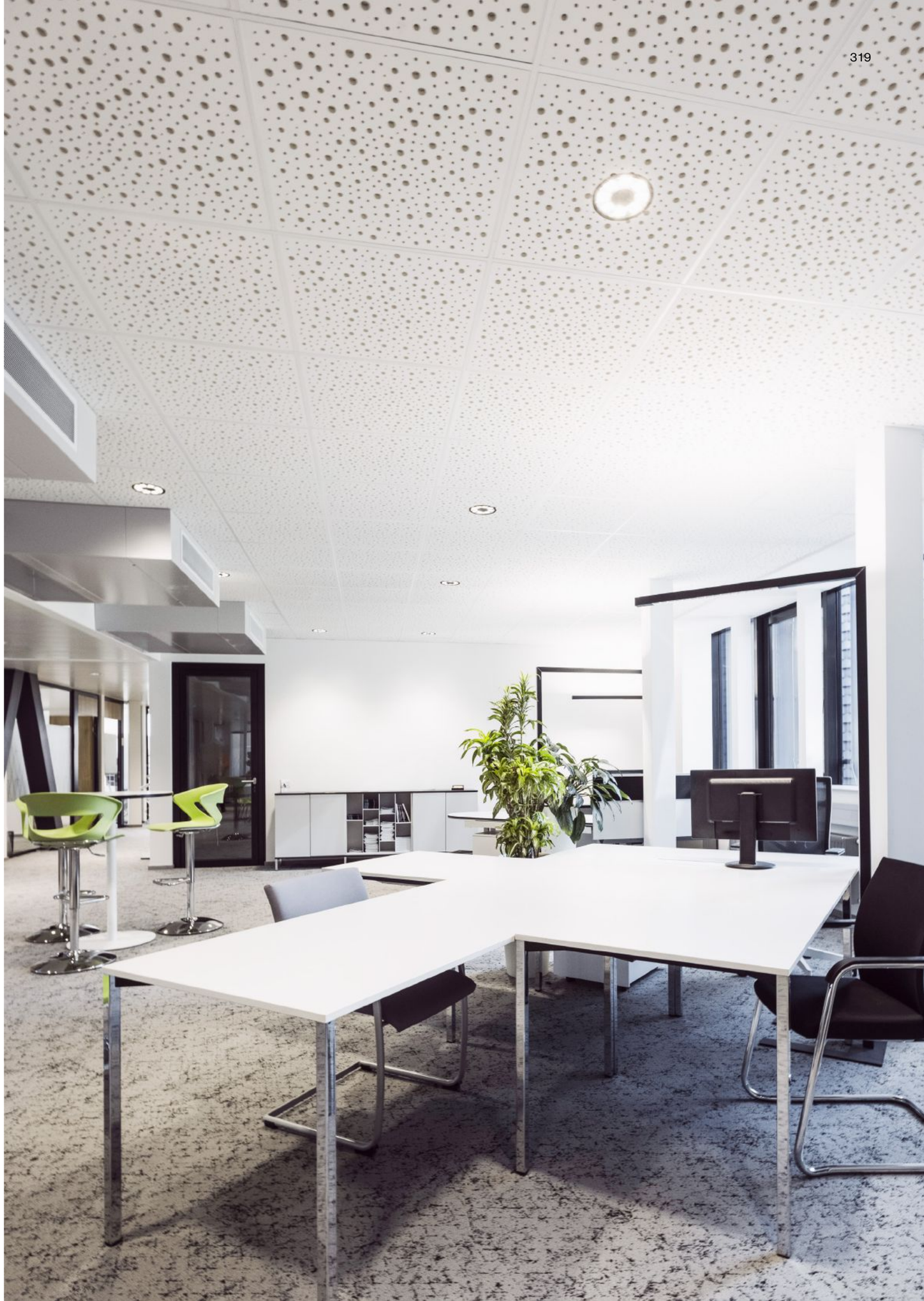


reflector (UGR ≤ 19)
direct

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

ALLPLAN Österreich GmbH
Graz, AT





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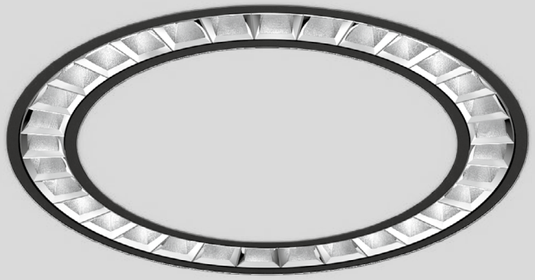
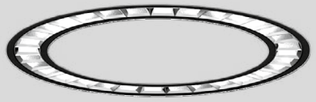
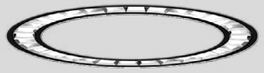






MITA circle 240 / 450

recessed with trim

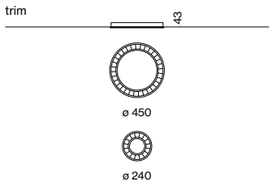
EN Ring shaped luminaire housing in die-cast aluminium; extremely slim design; recessed luminaire with trim; optional: blind cover to cover the cut-out available as an accessory; suitable for ceiling thickness of 2-25 mm; surface powder coated; high-gloss reflector with faceted design; energy-efficient LEDs with very good colour rendering

ES Cuerpo con forma de anillo y fabricado en aluminio; forma extremadamente esbelta; luminaria empotrable con marco; opcional: cubierta opaca para inserción en recorte de techo disponible como accesorio adicional; para instalación en techos de 2-25 mm de grosor; superficie con recubrimiento de pintura en polvo; reflector de alto brillo con óptica facetada; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 134 lm/W
L95 @ 50 000 h
DALI-2
reflector (UGR ≤ 19)

Types



Colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	D

*DALI-2 DT8

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 19)

Options on request

COLOUR RENDERING INDEX

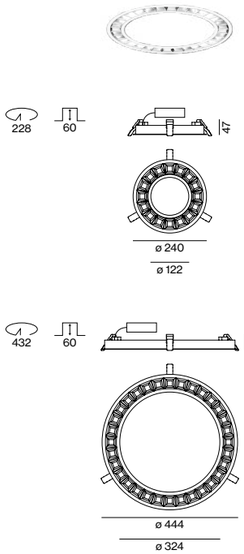
CRI ≥ 90

GRID CEILING MOUNTING

installed in module 600 × 600 mm
installed in module 625 × 625 mm

INLAY

sensor
emergency light



MITA circle 240 trim

UGR ≤ 19	cd/m² ≤1500	DALI 1 ADDR.	220-240V	X-PERT	X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14.2 W	3000 K	2080 lm	074-81143:3R
	4000 K	2200 lm	

MITA circle 450 trim

UGR ≤ 19	cd/m² ≤1500	DALI 1 ADDR.	220-240V	X-PERT	X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W	3000 K	4510 lm	074-81163:3R
	4000 K	4750 lm	
42 W	3000 K	5830 lm	074-81263:3R
	4000 K	6140 lm	

Accessories

BLIND COVER

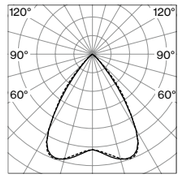
TYPE	ORDER CODE
MITA 240 circle recessed	074-89114 1
MITA 450 circle recessed	074-89116 1

suitable for plaster-board or grid ceilings

DIN EN 12464-1
UGR ≤ 19

tunable white
2700 – 6500 K

Light distribution

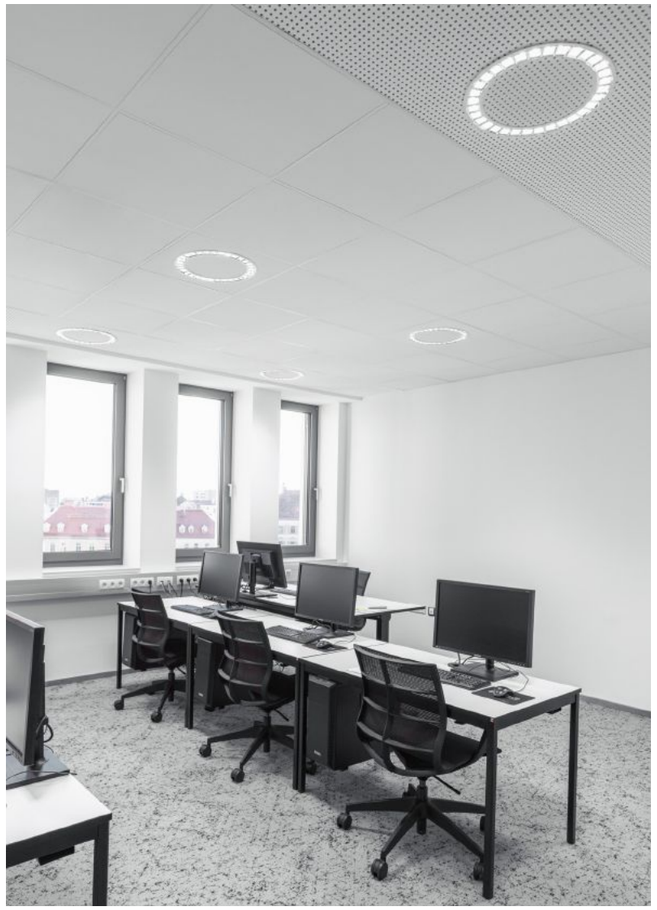


reflector (UGR ≤ 19)
direct

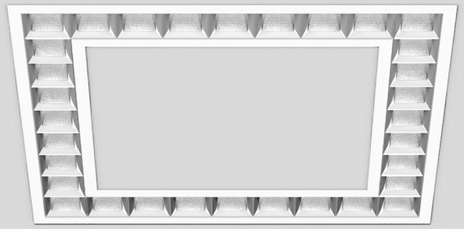
LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

Endress + Hauser GmbH
Vienna, AT – by FOKURA Luxury Interior /
Reinhard Strempfl with lighting design by
TB Heil & Schafzahl GmbH / Ing. Gerhard Heil

ALLPLAN Österreich GmbH
Graz, AT



back



MITA square

recessed with trim

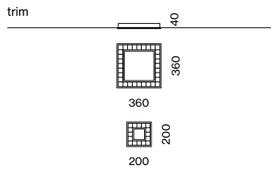
EN Square luminaire housing in die-cast aluminium; extremely slim design; recessed luminaire with trim; optional: blind cover to cover the cut-out available as an accessory; suitable for ceiling thickness of 2-25 mm; surface powder coated; high-gloss reflector with faceted design; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara cuadrado de fundición de aluminio; forma extremadamente esbelta; luminaria empotrable con marco; opcional: cubierta opaca para inserción en recorte de techo disponible como accesorio adicional; para instalación en techos de 2-25 mm de grosor; superficie con recubrimiento de pintura en polvo; reflector de alto brillo con óptica facetada; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 155 lm/W
L95 @ 50 000 h
DALI-2
reflector (UGR ≤ 19)

Types



Colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	D

*DALI-2 DT8

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 19)

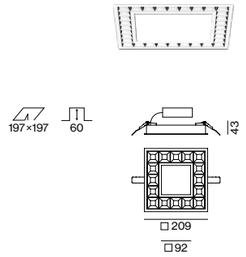
Options on request

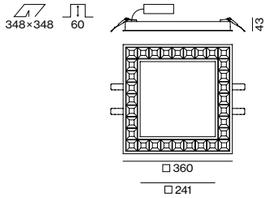
COLOUR RENDERING INDEX

CRI ≥ 90

GRID CEILING MOUNTING

installed in module 600 × 600 mm
installed in module 625 × 625 mm





MITA square 200 trim

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14.2 W	3000 K	2080 lm	074-831 4 :: 3 ◪ R
	4000 K	2200 lm	

MITA square 360 trim

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W	3000 K	4510 lm	074-831 6 :: 3 ◪ R
	4000 K	4750 lm	
42 W	3000 K	5830 lm	074-832 6 :: 3 ◪ R
	4000 K	6150 lm	

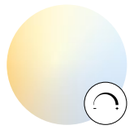
Accessories

BLIND COVER

TYPE	ORDER CODE
MITA 200 square recessed	074-891341 ◪
MITA 360 square recessed	074-891361 ◪

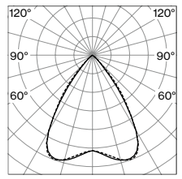
suitable for plaster-board or grid ceilings

DIN EN 12464-1
UGR ≤ 19



tunable white
2700 – 6500 K

Light distribution

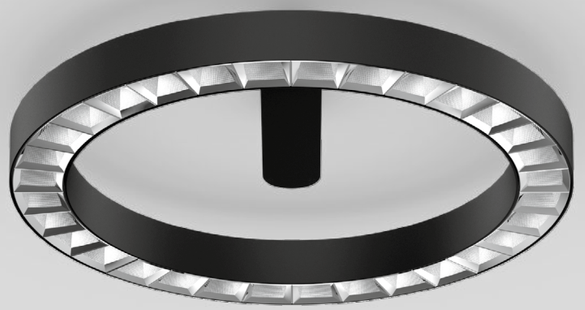


reflector (UGR ≤ 19)
direct

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

Classroom
Visualisation

back



MITA circle

ceiling

EN Ring shaped luminaire housing in die-cast aluminium; extremely slim design (only 42 x 42 mm); surface powder coated; luminaire housing set away from ceiling; electronic operating unit installed in the surface mounted housing; surface mounted housing aligned from the ring to the center; optional: blind cover to cover the cut-out, held by magnet, available as an accessory; high-gloss reflector with faceted design; HPO (High Performance Opal) cover for uniform illumination; either with direct or direct / indirect light distribution; energy-efficient LEDs with very good colour rendering

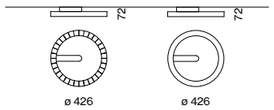
ES Cuerpo con forma de anillo y fabricado en aluminio; forma extremadamente esbelta (solo 42 x 42 mm); superficie con recubrimiento de pintura en polvo; cuerpo luminoso separado del techo; balasto electrónico integrado en la carcasa de superficie; carcasa superf. alineada desde anillo hasta centro; opcional: cubierta opaca de fijación a recorte de techo con imán disponible como accesorio adicional; reflector de alto brillo con óptica facetada; difusor opal de alta calidad que proporciona una iluminación uniforme; opcionalmente con característica de emisión directa o directa / indirecta; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 146 lm/W
L90 @ 50 000 h
DALI-2, DALI-2 sensor
reflector (UGR ≤ 19), opal

Types

ceiling



Colours

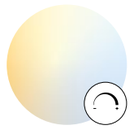
Light distributions

sensor version available

version with opal cover

magnetic blind cover

DIN EN 12464-1
UGR ≤ 19



tunable white
2700 – 6500 K

Order options

COLOUR TEMPERATURE	
3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	D

*DALI-2 DT8

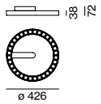
CONTROL	
DALI-2	3
DALI-2 ESSENTIAL sensor (brightness & presence)	B
DALI-2 SENSE sensor (brightness, presence, temp., sound pressure, humidity, CO_2)	P

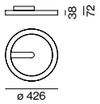
MATERIAL COLOUR	
○ pure white RAL 9010	7
● jet black RAL 9005	8

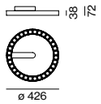
LIGHT OPTIC COVER
reflector
opal

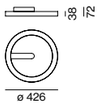
Options on request

COLOUR RENDERING INDEX
CRI ≥ 90









MITA circle 450 ceiling

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

REFLECTOR DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W	3000 K	4510 lm	0 7 4 - 7 5 1 1 R
	4000 K	4750 lm	
42 W	3000 K	5830 lm	0 7 4 - 7 5 2 1 R
	4000 K	6140 lm	

OPAL DIRECT

available from Q3 / 2022

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
27 W	3000 K	2650 lm	0 7 4 - 7 5 1 1 O
	4000 K	2810 lm	

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

REFLECTOR DIRECT / INDIRECT SOFT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W	3000 K	↧ 4370 / ↥ 140 lm	0 7 4 - 7 5 3 1 R
	4000 K	↧ 4610 / ↥ 140 lm	
42 W	3000 K	↧ 5660 / ↥ 170 lm	0 7 4 - 7 5 6 1 R
	4000 K	↧ 5960 / ↥ 180 lm	

OPAL DIRECT / INDIRECT SOFT

available from Q3 / 2022

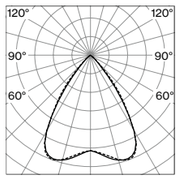
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
27 W	3000 K	↧ 2570 / ↥ 80 lm	0 7 4 - 7 5 3 1 O
	4000 K	↧ 2730 / ↥ 80 lm	

Accessories

BLIND COVER

TYPE	ORDER CODE
MITA circle 450 ceiling	0 7 4 - 8 9 1 1 6 2
MITA circle 450 ceiling sensor	0 7 4 - 8 9 1 1 6 3

Light distribution



reflector (UGR ≤ 19)
direct

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

Conference room
Visualisation

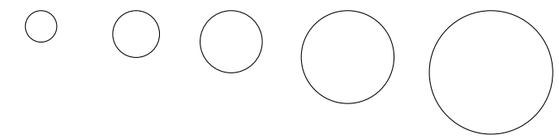
All-round performer

COMBO

EN COMBO has a narrow trim and is perfectly integrated into the ceiling. It creates a calm, even ceiling appearance with pleasant and uniform room illumination. The circular luminaire owes this to its opal cover. COMBO's microprismatic cover variant reduces the glare value to UGR ≤ 19: ideal for standard-compliant computer workstations. Depending on the desired lighting mood, COMBO is available in the light colours 3000 K, 4000 K, or Tunable White.

ES Un marco fino integrado al perfectamente en el techo: COMBO se integra perfectamente en el techo y proporciona una iluminación de alta calidad y uniforme, a la vez que ofrece un alumbrado general agradable y homogéneo. Esto se debe al reflector opal de esta luminaria circular. En la variante con difusor microprismático, COMBO reduce el índice de deslumbramiento a UGR ≤ 19, lo que la convierte en la luminaria perfecta para puestos de trabajo. En función del ambiente luminoso deseado, COMBO está disponible con temperaturas de color de 3000 K, 4000 K o Tunable White.

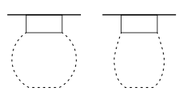
Types



Mounting

trim
recessed

Light distributions



back

COMBO

recessed with trim

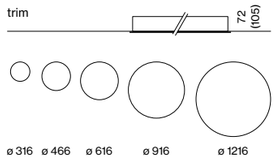
EN Round luminaire housing in aluminium with trim; suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 10-25 mm; surface powder coated; up to ø 600 mm: installation without tools using snap spring closure; highly reflective coating of the PCB for improved efficiency; completely homogeneously illuminated, satinised or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering; external converter for ceiling insertion, for through-wiring suitable

ES Cuerpo redondo con marco fabricado en aluminio; apropiada para montaje en techos de yeso; para instalación en techos de 10-25 mm de grosor; superficie con recubrimiento de pintura en polvo; hasta ø 600 mm: sencilla instalación sin herramientas mediante un enganche elástico; recubrimiento altamente reflectante de la pletina para un mayor rendimiento; iluminación homogénea, con efecto opal o microprismático; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; convertidor externo para inserción en el techo, adecuado para cableado pasante

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 145 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colour

Light distribution

direct

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

tunable white
2700 – 6500 K

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010

LIGHT OPTIC COVER

opal	O
microprismatic (UGR ≤ 19)	K

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

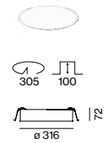
COLOUR TEMPERATURE

tunable white 2700 – 6500 K (2× DALI)

EMERGENCY LIGHT

1 h accupack
3 h accupack

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

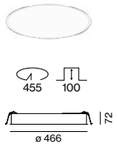


COMBO 300 trim

UGR ≤ 19 | cd/m² ≤3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10.1 W	3000 K	993 lm	064-103 1 :: ◇ 7 ▫
	4000 K	1050 lm	

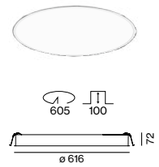


COMBO 450 trim

UGR ≤ 19 | cd/m² ≤3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16.7 W	3000 K	2050 lm	064-104 1 :: ◇ 7 ▫
	4000 K	2170 lm	

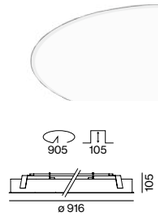


COMBO 600 trim

UGR ≤ 19 | cd/m² ≤3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
31 W	3000 K	4020 lm	064-105 1 :: ◇ 7 ▫
	4000 K	4250 lm	

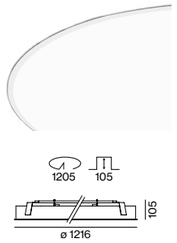


COMBO 900 trim

UGR ≤ 19 | cd/m² ≤3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
58 W	3000 K	7440 lm	064-107 1 :: 37 ▫
	4000 K	7880 lm	



COMBO 1200 trim

UGR ≤ 19 | cd/m² ≤3000 | RG 0 IEC 62471 | DALI 3 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
92 W	3000 K	12610 lm	064-108 1 :: 37 ▫
	4000 K	13350 lm	

Accessories

MOUNTING RING FOR ACOUSTIC CEILING

TYPE	ORDER CODE
COMBO 300	064-190 6300
COMBO 450	064-190 6400
COMBO 600	064-190 6500
COMBO 900	064-190 6700
COMBO 1200	064-190 6800

Raiffeisenbank Gmunden Salzkammergut, AT –
by INNOCAD Architektur ZT

Hargassner Energy World Linz, AT –
by architekten berger.hofmann og & tech3
Projektentwicklung GmbH with lighting design
by AREA C.I.DESIGN GmbH

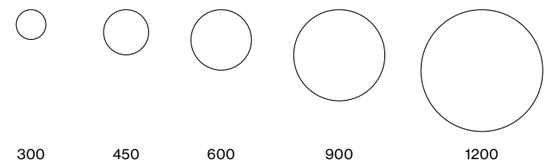
Timeless perfection

VELA

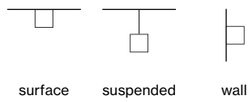
EN As one of XAL's first round luminaires, VELA has been perfected over the years. Innovative technology hides behind its flat, minimalistic design. VELA surface can be wall or ceiling mounted. The suspended version has either a classic cable suspension or a chrome-plated pendulum tube suspension that can be shortened. To adapt to a variety of interior designs, VELA is available in an extensive colour palette and in the light colours 3000 K, 4000 K, or Tunable White (2700 K – 6500 K) on request. A microprismatic cover is ideal for workstations. An opal cover provides homogeneous basic lighting. An optional direct / indirect beam characteristic illuminates the ceiling and creates ambience.

ES VELA fue una de las primeras luminarias con forma circular en XAL y ha sido rediseñada durante años. Su diseño plano y minimalista esconde una tecnología innovadora. Mientras que VELA Surface es apta para el montaje en superficie de pared y techo, la variante suspendida puede instalarse con una clásica suspensión de cable o con una suspensión de tubo pendular cromada y acortable según las necesidades del cliente. Para poder adaptarse a una amplia variedad de diseños de interior, VELA se ofrece en una gran variedad de colores y en temperaturas de color de 3000 K o 4000 K y, opcionalmente, en Tunable White (2700 K – 6500 K). El difusor puede ser microprismático para el uso en puestos de trabajo u opal para proporcionar un alumbrado general homogéneo. Un modo de proyección directa / indirecta opcional se ofrece como opción para iluminar el techo, creando un ambiente agradable.

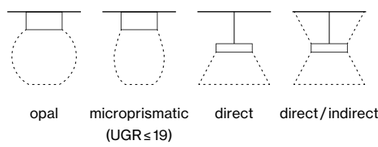
Types



Mountings



Light distributions



back

VELA

surface

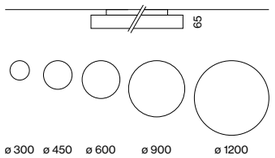
EN Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface powder coated; quick mounting system without tools; highly reflective coating of the PCB for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; up to ø 600 mm: microprismatic PMMA cover; either with direct or direct / indirect light distribution; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring

ES Cuerpo de lámpara redondo de aluminio, perfil enrollado, soldado sin costuras; superficie con recubrimiento de pintura en polvo; sistema de montaje rápido sin herramientas; recubrimiento altamente reflectante de la pletina para un mayor rendimiento; tapa PMMA iluminada homogéneamente con acabado sanitado; hasta ø 600 mm: difusor PMMA microprismático; opcionalmente con característica de emisión directa o directa/indirecta; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 153 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

Light distributions

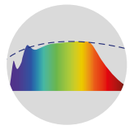
direct direct indir.

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

easy mounting
(click-system)

tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

opal high performance	O
microprismatic (UGR ≤ 19)	K

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

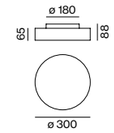
DALI-2 DT8

EMERGENCY LIGHT

1 h accupack
3 h accupack

not available for VELA 300

LUMINOUS FLUX value calculated for 4000 K, CRI ≥ 80, colour white, cover opal 3000 K -5 %



VELA 300 surface

UGR ≤ 19 | cd/m² ≤ 3000 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
10.1 W	1050 lm	073-11311
16.5 W	1800 lm	073-11312

DIRECT / INDIRECT SOFT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
10.1 W	↧ 1110 / ↥ 54 lm	073-11317
16.5 W	↧ 1900 / ↥ 92 lm	073-11318

VELA 450 surface

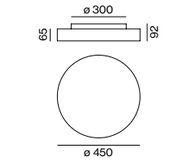
UGR ≤ 19 | cd/m² ≤ 3000 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
16.7 W	2170 lm	073-11411
30 W	3620 lm	073-11412

DIRECT / INDIRECT SOFT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
16.7 W	↧ 2140 / ↥ 84 lm	073-11417
30 W	↧ 3580 / ↥ 140 lm	073-11418



VELA 600 surface

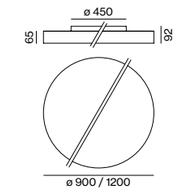
UGR ≤ 19 | cd/m² ≤ 3000 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
31 W	4250 lm	073-11511
42 W	5600 lm	073-11503
48 W	6290 lm	073-11520

DIRECT / INDIRECT SOFT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
31 W	↧ 4220 / ↥ 118 lm	073-11577
42 W	↧ 5560 / ↥ 155 lm	073-11563
48 W	↧ 6250 / ↥ 174 lm	073-11588



VELA 900 ceiling

UGR ≤ 19 | cd/m² ≤ 3000 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
71 W	9520 lm	073-11713

VELA 1200 ceiling

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 3 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
147 W	20600 lm	073-11813

Accessories

TYPE	ORDER CODE
dismounting tool (for ø 600 / 900 / 1200)	073-11000000

Optician and Eyeware Külling
St. Gallen, CH –
by HEIKAUS Concept GmbH

back

VELA

suspended

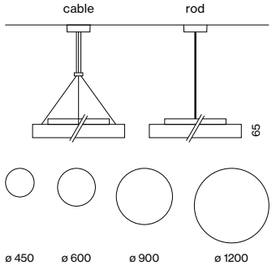
EN Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface powder coated; suspended; with integrated tool-less suspension height adjustment; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; highly reflective coating of the PCB for improved efficiency; completely homogeneously illuminated, satinised PMMA cover; up to ø600 mm: microprismatic PMMA cover; either with direct or direct/indirect light distribution; indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; energy-efficient LEDs with very good colour rendering; canopy with 2 cable openings and plug-in terminal for through wiring

ES Cuerpo de lámpara redondo de aluminio, perfil enrollado, soldado sin costuras; superficie con recubrimiento de pintura en polvo; suspendido; regulación de la altura sin necesitar herramientas; incluido cable de alimentación transparente o cable cromado para suspensión ajusable; recubrimiento altamente reflectante de la pletina para un mayor rendimiento; tapa PMMA iluminada homogéneamente con acabado sanitado; hasta ø600 mm: difusor PMMA microprismático; opcionalmente con característica de emisión directa o directa/indirecta; proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino con abertura de 2 orificios para integrar el cableado y sencilla conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 153 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

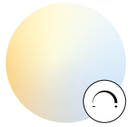
Light distributions

direct direct indirect

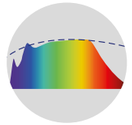
DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

direct/indirect illumination



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

SUSPENSION

cable 1500 mm	2
rod 1000 mm	4

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours* p. 992	X

*canopy always in white

LIGHT OPTIC COVER

opal high performance	O
microprismatic (UGR ≤ 19)	K

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

SUSPENSION

rod 2000 mm

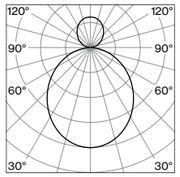
COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

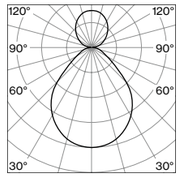
EMERGENCY LIGHT

1 h accupack
3 h accupack

Light distributions

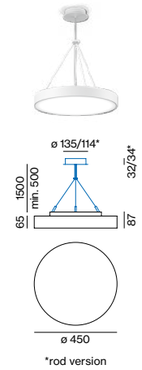


opal high performance
direct/indirect power



microprismatic
direct/indirect power

LUMINOUS FLUX value calculated for
4000 K, CRI ≥ 80, colour white, cover opal
3000 K -5 %



*rod version

VELA 450 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

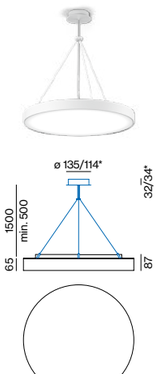
DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
16.7 W	2170 lm	0 7 3 - 1 ♁ 4 1 ⁘ ◪ ◘
30 W	3620 lm	0 7 3 - 1 ♁ 4 2 ⁘ ◪ O

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
21.1 W	↧ 2070 / ↥ 812 lm	0 7 3 - 1 ♁ 4 4 ⁘ ◪ ◘
35 W	↧ 3250 / ↥ 1270 lm	0 7 3 - 1 ♁ 4 5 ⁘ ◪ O



*rod version

VELA 600 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
31 W	4250 lm	0 7 3 - 1 ♁ 5 1 ⁘ ◪ ◘
42 W	5600 lm	0 7 3 - 1 ♁ 5 0 ⁘ 3 ◪ O
48 W	6290 lm	0 7 3 - 1 ♁ 5 2 ⁘ ◪ O

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 2 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
45 W	↧ 4350 / ↥ 1970 lm	0 7 3 - 1 ♁ 5 4 ⁘ ◪ ◘
68 W	↧ 6290 / ↥ 2850 lm	0 7 3 - 1 ♁ 5 5 ⁘ ◪ O

VELA 900 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

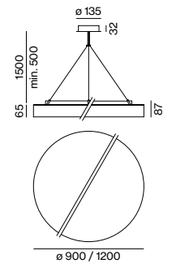
DIRECT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
71 W	9520 lm	0 7 3 - 1 2 7 1 ⁘ 3 ◪ ◘

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
96 W	↧ 9520 / ↥ 4670 lm	0 7 3 - 1 2 7 4 ⁘ 3 ◪ ◘



VELA 1200 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 3 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

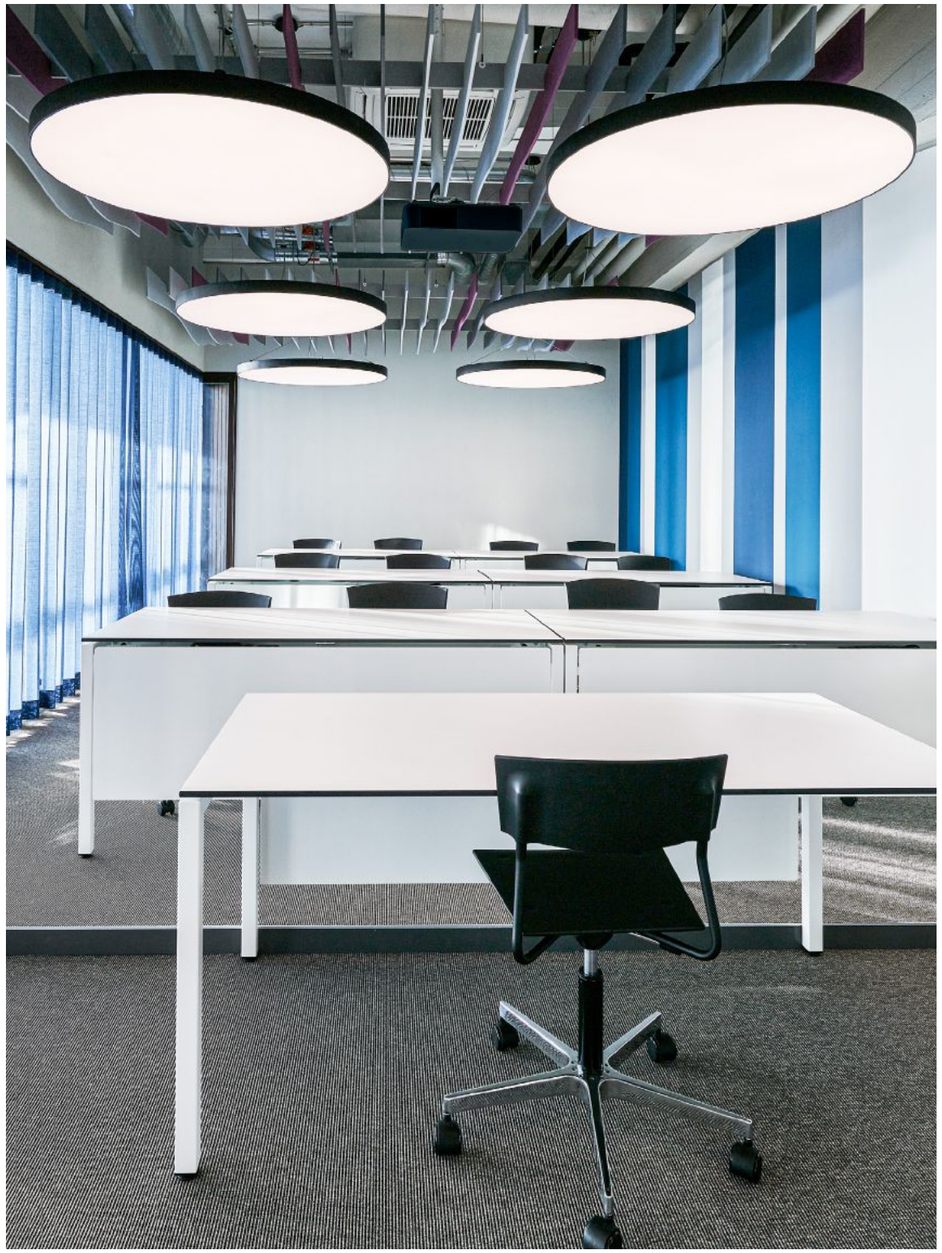
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
147 W	20600 lm	0 7 3 - 1 2 8 1 ⁘ 3 ◪ ◘

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 4 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
185 W	↧ 20600 / ↥ 6060 lm	0 7 3 - 1 2 8 4 ⁘ 3 ◪ ◘

Hostpoint AG
Rapperswil-Jona, CH –
by Büronauten AG



MASCHAGENCY GmbH & Co.kg
Munich, DE – by Gruschwitz GmbH

Sparkasse Berlin, DE –
by blocher partners

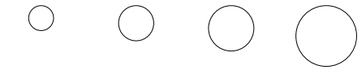
For heavy-duty use

SONO

EN The SONO family of circular luminaires was created especially for heavy-duty use. It has increased dust and insect protection (IP50), and is characterised by an all-round robust housing (IK07). In addition, the SONO IP54 offers increased moisture protection. The SONO Flex recessed luminaire can be recessed or fixed in two positions by employing the Jut-Out function. This can minimise the contrast between the luminaire and ceiling, or change the appearance in the room. As a mounted luminaire, SONO ensures homogeneous ambient illumination thanks to its narrow frame and opal cover. All versions are available in the light colours 3000K, 4000K, or Tunable White.

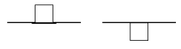
ES La familia de luminarias circulares SONO se ha creado especialmente para espacios en los que la luminaria se expone a altos niveles de suciedad. Cuenta con protección contra polvo e insectos de IP50, y se caracteriza por una estructura extremadamente resistente (IK07). La SONO IP54 ofrece además una elevada protección contra la humedad. Como luminaria empotrable, SONO Flex puede empotrarse o fijarse de modo semiempotrado en dos posiciones con la función Jut Out: una opción ideal para minimizar el contraste entre la luminaria y el techo o modificar el aspecto en la sala. En la variante de superficie, SONO proporciona una iluminación general homogénea gracias a su estrecho marco y a su difusor opal. Todas las variantes están disponibles en temperaturas de color de 3000K, 4000K o Tunable White.

Types



260 350 450 600

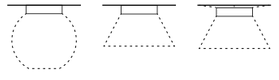
Mountings



flex trim recessed

surface

Light distributions

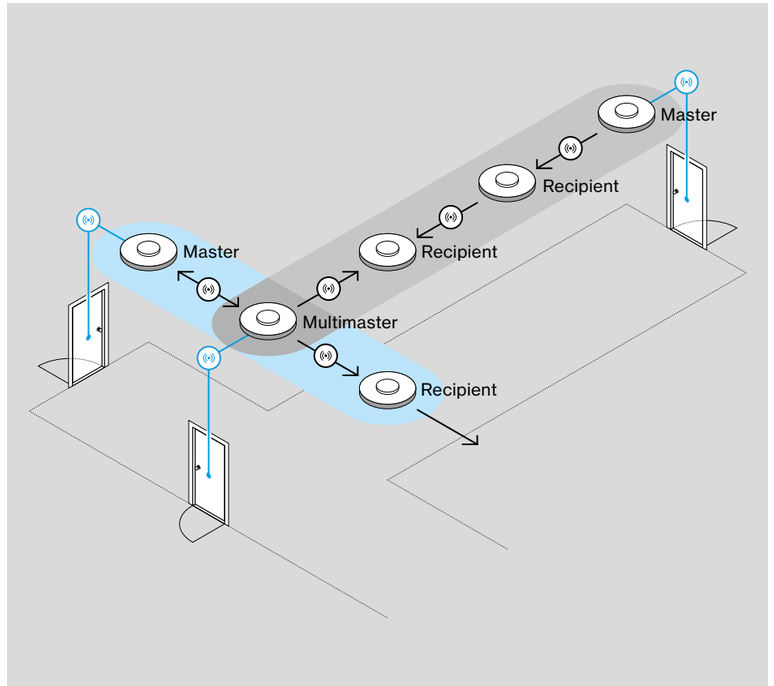


opal direct direct/indirect

Jut-Out

EN The SONO Flex recessed luminaire can assume two positions: recessed into the ceiling or protruding through its Jut-Out function. This allows a change of its effect in a room and the luminaire can either be accentuated or visually blended into the surroundings.

ES La luminaria empotrable SONO Flex puede adoptar dos posiciones: una empotrada en el techo y otra saliente con la función “jut-out”. Esto permite modificar el efecto en la sala y utilizar la luminaria de modo que llame la atención por sí misma o que se integre en el entorno discretamente.



Smart controls

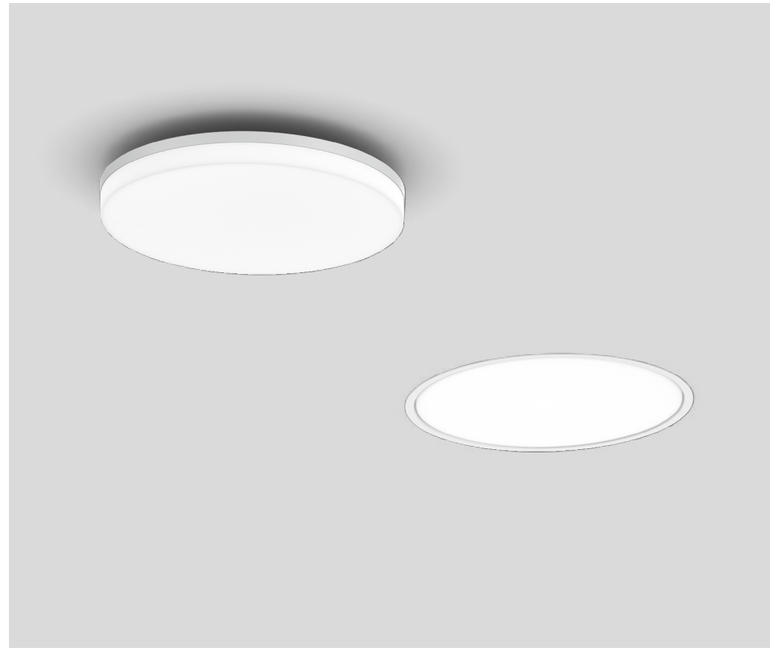
EN Thanks to an implemented Radar Control System (RCS), SONO reacts to lighting conditions and movements in its vicinity. Brightness and presence sensors wirelessly adjust the light output. The corridor function registers an individual and successively switches luminaires on and off, depending on the direction in which they are moving.

ES Mediante la implementación de un sistema de control por radar (Radar Control System, RCS), SONO reacciona a las condiciones de iluminación y a los movimientos cercanos. Los sensores de luminosidad y presencia adaptan la intensidad luminosa de forma inalámbrica. Al detectar la presencia de una persona, la función de pasillo enciende y apaga sucesivamente las luminarias respectivas dependiendo de la dirección en que la persona se desplace.

Homogenous quality

EN As a recessed luminaire, SONO blends harmoniously into the ceiling. Thanks to its narrow frame and opal cover, the SONO surface-mounted version provides soft, homogeneous ambient light.

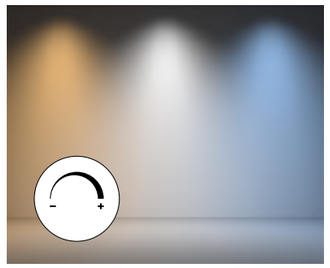
ES Como luminaria empotrable, SONO se integra perfectamente en el techo de una sala. La variante de superficie SONO proporciona una luz ambiental totalmente homogénea y de proyección suave gracias a su marco de pequeñas dimensiones y a su difusor opal.



Robust housing

EN The SONO family of circular luminaires was created especially for heavy-duty use. It has increased dust and insect protection (IP 50), and is characterised by an all-round robust housing (IK 07).

ES La familia de luminarias circulares SONO se ha creado especialmente para espacios con necesidades específicas. Ofrece una protección elevada contra el polvo y los insectos (IP 50) y se distingue por contar con una carcasa extremadamente resistente

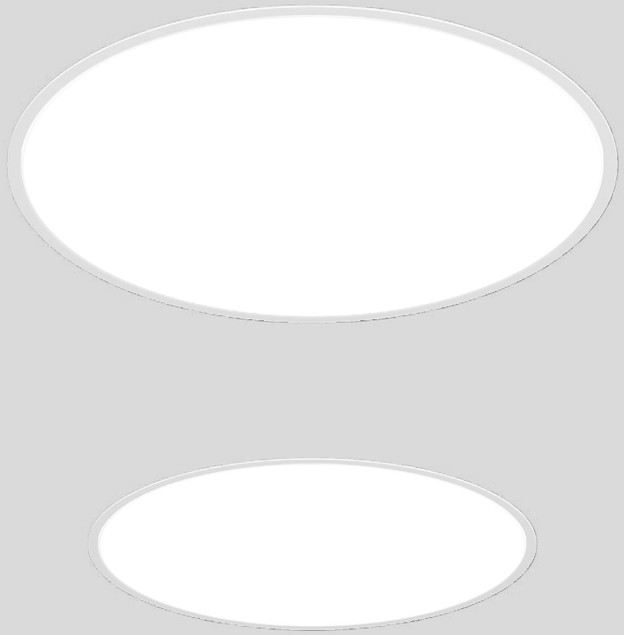


TW – Tunable White

EN Changes in the colour of light have a substantial effect on our mood. Tunable White allows the colour temperature to be continuously adjusted from 2700 K (warm light) to 6500 K (cool light) to dynamically adapt the lighting to the time of day or ambient brightness.

ES Los cambios de color de la luz tienen un efecto directo en nuestro estado de ánimo. Tunable White hace posible una modificación continua de la temperatura de color desde 2700 K (luz cálida) hasta 6500 K (luz fría), con el fin de adaptar la iluminación de forma dinámica a la hora del día o a la luminosidad del entorno.

back



SONO flex

recessed with trim

EN Round recessed luminaire in aluminium, consisting of (SONO) light housing and recessed housing; housing with trim suitable for installation in plasterboard ceilings; suitable for ceiling thickness of 10-25 mm; optionally: installation in concrete ceilings with a special installation housing (available as an accessory); surface powder coated; luminaire installs in housing without tools optionally flush or protruding by 25 mm; completely homogeneously illuminated, satinised PMMA cover; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring

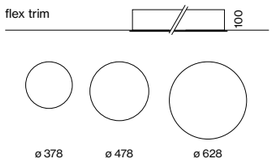
ES Lámpara empotrable de aluminio, con cuerpo de lámpara (SONO) y carcasa de montaje; accesorio para montaje con marco en techos de yeso; para instalación en techos de 10-25 mm de grosor; opcional: empotramiento en techos de hormigón mediante caja de empotramiento en hormigón (disponible como accesorio); superficie con recubrimiento de pintura en polvo; luminaria empotrada para montaje sin herramientas o en superficies salientes de 25 mm; tapa PMMA iluminada homogéneamente con acabado sanitado; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 133 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal cover
IP 50

Types

flex trim



Colour

Light distribution

direct

DiiA® standards 251, 252, 253

flexible jut out 0 or 25 mm

dust and insect protection (IP 50)

tunable white 2700 – 6500 K

Order options

IP RATING
IP 50

COLOUR TEMPERATURE
3000 K 5
4000 K 6

CONTROL
non DIM 1
DALI-2 3

MATERIAL COLOUR
○ pure white RAL 9010

LIGHT OPTIC COVER
opal

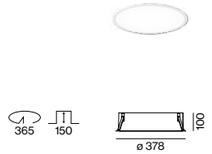
Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 2700 – 6500 K
DALI-2 DT8

CONTROL
RCS Master
RCS Slave

EMERGENCY LIGHT
3 h accupack

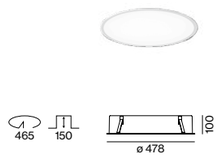


SONO FLEX 350 trim

RG 0 IEC 62471 · 1 ADDR. · 220-240V · IP 50 · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15.9 W	3000 K	1940 lm	063-3238 ⁘ ⇕ 70
	4000 K	2060 lm	

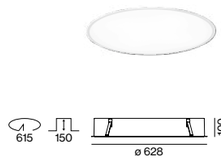


SONO FLEX 450 trim

RG 0 IEC 62471 · 1 ADDR. · 220-240V · IP 50 · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23.2 W	3000 K	2850 lm	063-3248 ⁘ ⇕ 70
	4000 K	3010 lm	



SONO FLEX 600 trim

RG 0 IEC 62471 · 1 ADDR. · 220-240V · IP 50 · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
43 W	3000 K	5410 lm	063-3258 ⁘ ⇕ 70
	4000 K	5730 lm	

Accessories

CONCRETE INSTALLATION HOUSING

TYPE	Ø-H (mm)	ORDER CODE
SONO FLEX 350	364·107	063-2238100
SONO FLEX 450	464·107	063-2248100
SONO FLEX 600	614·107	063-2258100

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

Volksschule Erlaaer Schleife
Vienna, AT – by ARGE Architekten
Kronaus – Mitterer/Vasko & Partner

back

SONO IP50 / IP54

surface

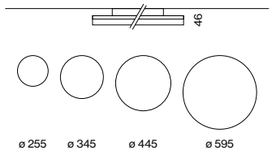
EN Round luminaire housing in die-cast aluminium; surface powder coated; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring

ES Cuerpo redondo de aluminio; superficie con recubrimiento de pintura en polvo; apropiada para montaje en techo y paredes; tapa PMMA iluminada homogéneamente con acabado sanitado; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 143 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal cover
IP 40, IP 50, IP 54

Types



Colour

Light distributions

DiiA® standards 251, 252, 253

easy mounting by click-mechanism

dust and insect protection (IP 54)

tunable white 2700 – 6500 K

Order options

IP RATING

IP50	0
IP54	8

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

EMERGENCY LIGHT

3 h accupack*	N L 3

*not for IP 54

MATERIAL COLOUR

○ pure white RAL 9010

LIGHT OPTIC COVER

opal

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

COLOUR TEMPERATURE

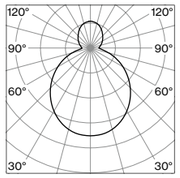
tunable white 2700 – 6500 K

DALI-2 DT8

CONTROL

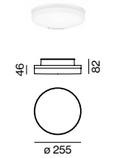
RCS Master
RCS Slave

Light distribution



opal
direct / indirect

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

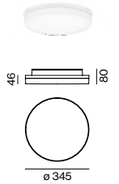


SONO 260 surface

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · IP 54 · IK 07 · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7.6 W	3000 K	950 lm	◇ 7 1 - 9 1 2 6 ⁘ ≎ 7 O
	4000 K	1010 lm	

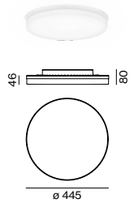


SONO 350 surface

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · IP 54 · IK 07 · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15.9 W	3000 K	2090 lm	◇ 7 1 - 9 1 3 6 ⁘ ≎ 7 O ●
	4000 K	2210 lm	



SONO 450 surface

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · IP 54 · IK 07 · X-PERT

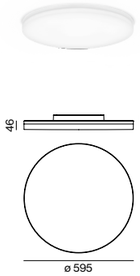
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23.2 W	3000 K	3070 lm	◇ 7 1 - 9 1 4 6 ⁘ ≎ 7 O ●
	4000 K	3250 lm	

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · IP 40 · IK 07 · X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
34 W	3000 K	↧3290 / ↥1130 lm	0 7 1 - 9 1 4 8 ⁘ ≎ 7 O
	4000 K	↧3480 / ↥1200 lm	



SONO 600 surface

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · IP 54 · X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
43 W	3000 K	5830 lm	○ 7 1 - 9 1 5 6 ⁘ ≎ 7 O
	4000 K	6170 lm	

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · IP 40 · X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
67 W	3000 K	↧5830 / ↥2840 lm	0 7 1 - 9 1 5 8 ⁘ ≎ 7 O
	4000 K	↧6170 / ↥3010 lm	

Grundschule St. Martin in Gsies, IT –
by tasserball architekten

Kindergarten Hauderweg Linz, AT –
by Mia2 Architektur ZT KG
including lighting design

Primarschule Basel, CH – by
Stähelin Partner Architekten AG

back

SONO LOOP IP54

surface

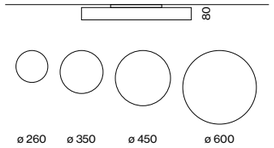
EN Round luminaire housing in die-cast aluminium; surface powder coated; fitted bezel in rolled, seamless welded aluminium profile; suitable for wall or ceiling mounting; completely homogeneously illuminated, satinised PMMA cover; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring

ES Cuerpo redondo de aluminio; superficie con recubrimiento de pintura en polvo; anillo superpuesto de perfil de aluminio enrollado y soldado sin costuras; apropiada para montaje en techo y paredes; tapa PMMA iluminada homogéneamente con acabado sanitado; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
uo to 133 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal cover
IK07, IP54

Types



Colours

Light distribution

direct

DiiA® standards 251, 252, 253

easy mounting by click-mechanism

dust and insect protection (IP54)

tunable white 2700–6500 K

Order options

IP RATING

IP54

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010	7
● grey aluminium RAL 9007	D

LIGHT OPTIC COVER

opal

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

COLOUR TEMPERATURE

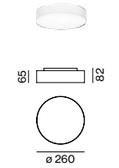
tunable white 2700–6500 K

DALI-2 DT8

CONTROL

RCS Master
RCS Slave

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

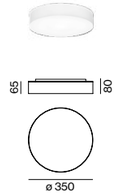


SONO LOOP 260 surface

RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | IP54 | IK07 | X-PERT

IP54 LUMINAIRE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
7.6 W	3000 K	881 lm	8 7 1 - 8 1 2 6 ⁘ ◪ O
	4000 K	933 lm	

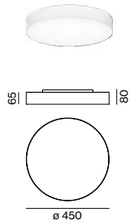


SONO LOOP 350 surface

RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | IP54 | IK07 | X-PERT

IP54 LUMINAIRE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15.9 W	3000 K	1940 lm	8 7 1 - 8 1 3 6 ⁘ ◪ O
	4000 K	2060 lm	

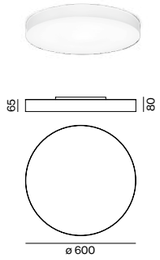


SONO LOOP 450 surface

RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | IP54 | IK07 | X-PERT

IP54 LUMINAIRE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23.2 W	3000 K	2850 lm	8 7 1 - 8 1 4 6 ⁘ ◪ O
	4000 K	3010 lm	

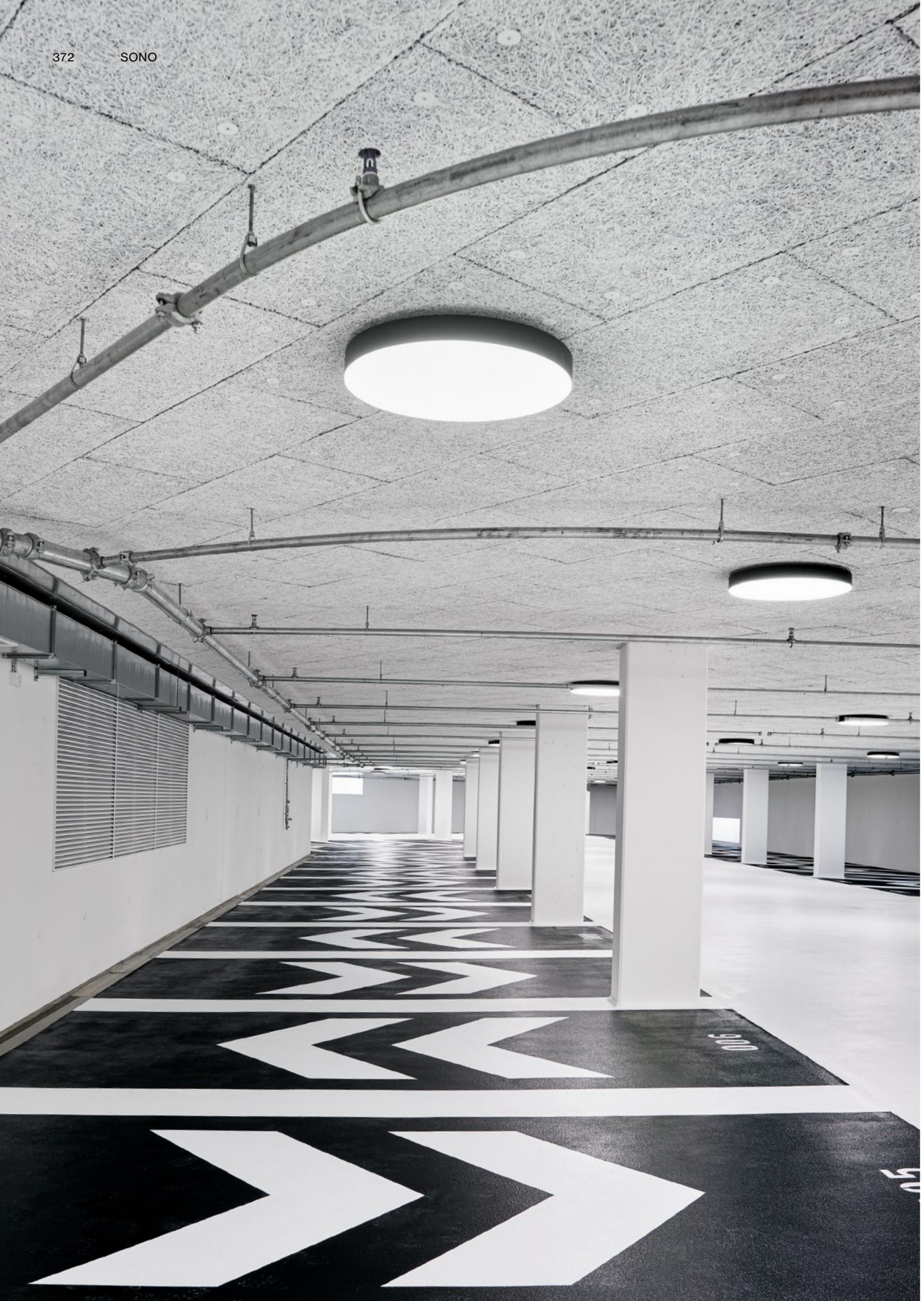


SONO LOOP 600 surface

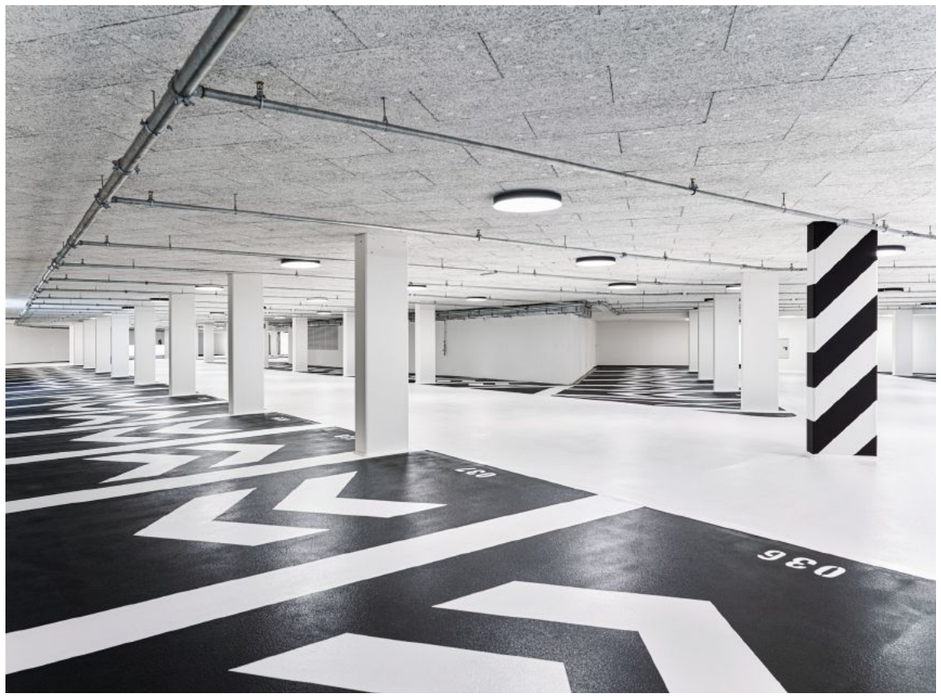
RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | IP54 | X-PERT

IP54 LUMINAIRE

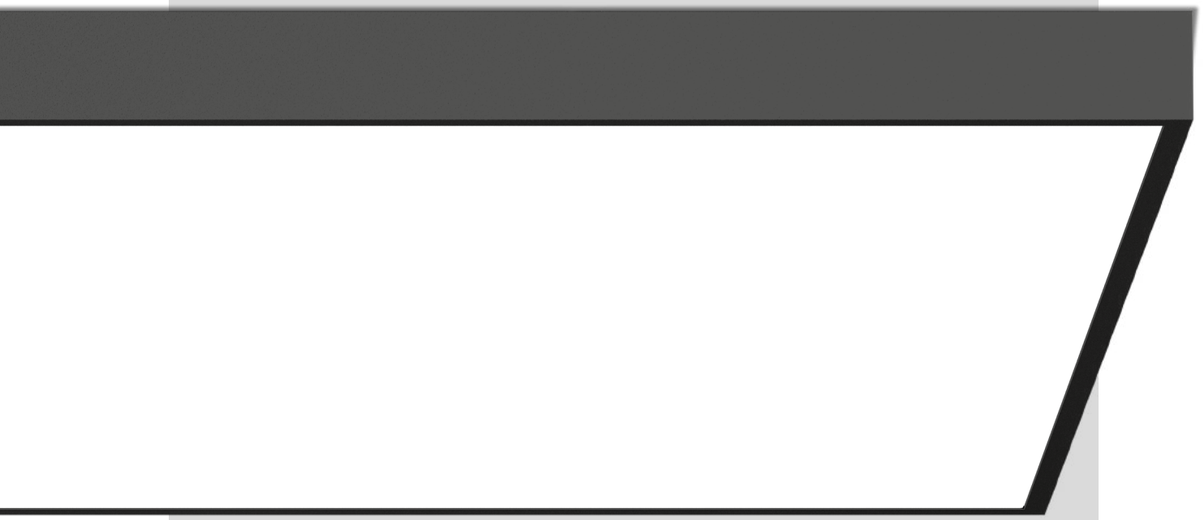
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
43 W	3000 K	5410 lm	8 7 1 - 8 1 5 6 ⁘ ◪ O
	4000 K	5730 lm	



KTM House of brands
Munderfing, AT – by Hofbauer
Liebmann Architekten ZT GmbH



The square difference

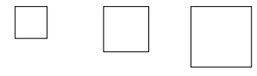


FLOW

EN FLOW is ideal for providing light in its pure form. FLOW, whether mounted on the wall or ceiling, or in its suspended variant, has a clean design and flat dimensions. Depending on the desired lighting mood, the IP 40-protected luminaire is available at 3000 K or 4000 K. An opal cover creates a uniform and pleasant light. The surface-mounted luminaire is installed quickly and without tools via a mounting plate.

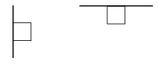
ES Allí donde se desee contar con luz en su forma más pura, FLOW es la solución perfecta. Ya sea montada en la pared, en el techo, o suspendida, FLOW se mantiene discretamente en segundo plano gracias a su aspecto sencillo y a su forma plana. Dependiendo del ambiente luminoso deseado, esta luminaria con grado de protección IP 40 está disponible en temperaturas de color de 3000 K o 4000 K y ofrece una luz agradable y uniforme gracias a su difusor opal. En su versión suspendida, FLOW también ilumina el techo de manera efectiva con una proporción adicional de luz indirecta. La instalación de la luminaria de superficie se realiza de un modo sencillo y sin herramientas gracias a una placa de montaje.

Types



320 450 600

Mountings

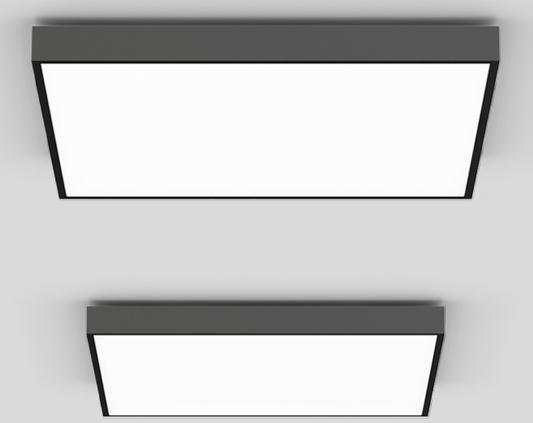


wall ceiling

Light distribution

opal

back



FLOW

surface

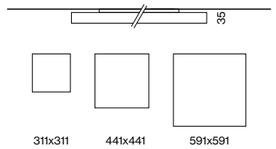
EN Square aluminium luminaire housing, flat design (luminaire housing 35 mm); surface powder coated; suitable for wall or ceiling mounting, luminaire housing set 11 mm away from wall or ceiling; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; completely homogeneous illumination; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring

ES Luminaria cuadrada fabricada en aluminio, cuenta con un tamaño muy reducido (cuerpo de 35 mm); superficie con recubrimiento de pintura en polvo; instalación apta para techos y paredes, cuerpo de la luminaria ubicado a 11 mm de la pared o techo; sistema de montaje rápido sin herramientas; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; iluminación homogénea; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 146 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, IP 40

Types



Colours

standard xal.com/colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours → p. 992	X

LIGHT OPTIC COVER

opal

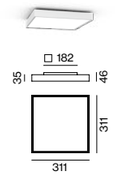
Options on request

MOUNTING

1500 mm cable suspension

COLOUR RENDERING INDEX

CRI ≥ 90

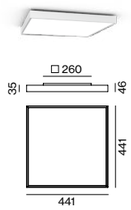


FLOW 320 surface

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15.2 W	3000 K	2000 lm	073-01311
	4000 K	2120 lm	

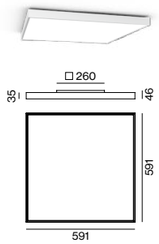


FLOW 450 surface

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
23.9 W	3000 K	3250 lm	073-01411
	4000 K	3440 lm	



FLOW 600 surface

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP 40 | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
44 W	3000 K	6060 lm	073-01511
	4000 K	6420 lm	

Accessories

TYPE	ORDER CODE
dismounting tool	073-0100000

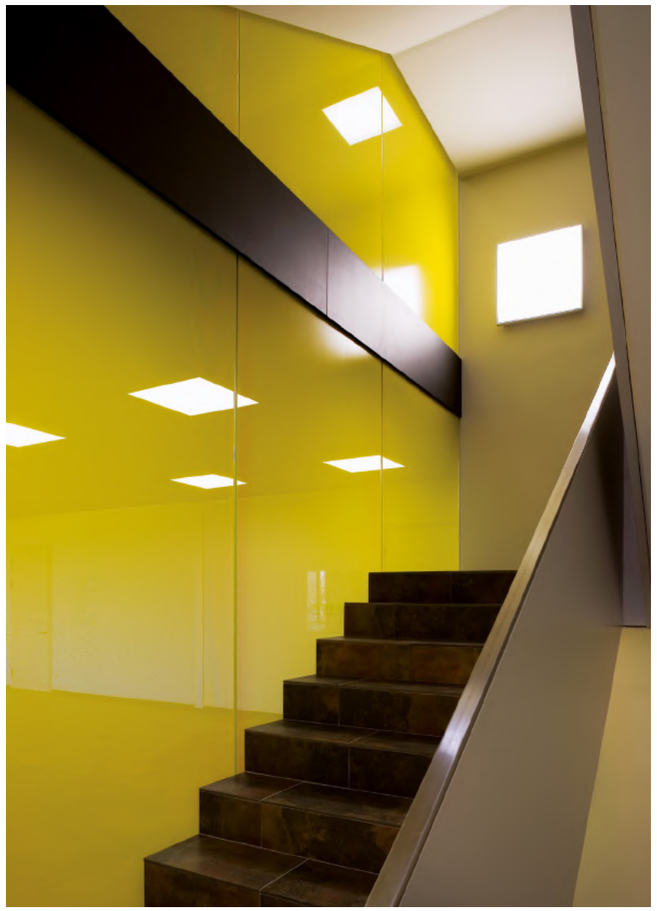
DiiA® standards
251, 252, 253

easy mounting by click-mechanism

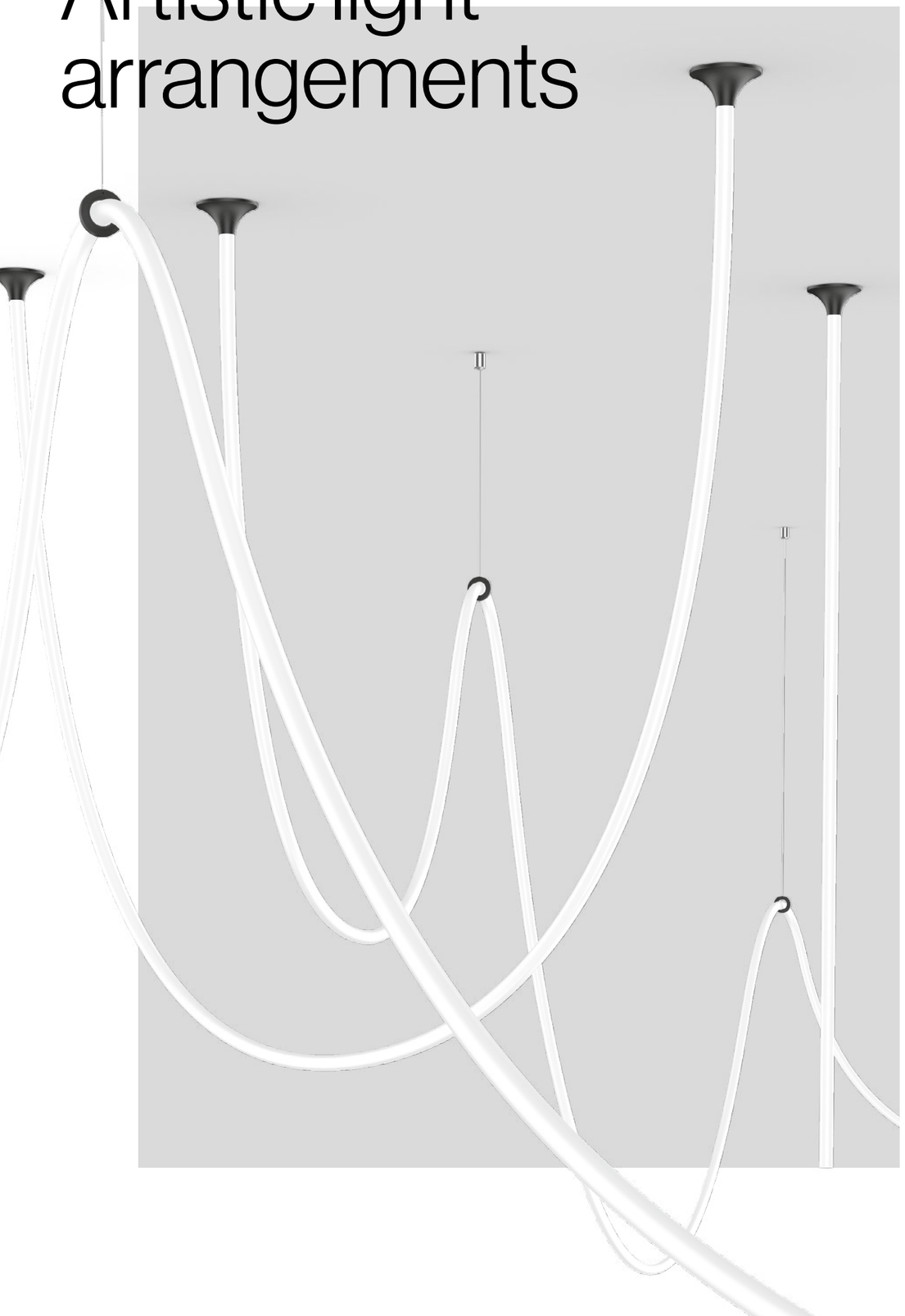
insect protection (IP 40)

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

Businesscenter
Wels, AT –
by Riepl / Riepl



Artistic light arrangements



JANE

EN JANE gives flexibility in design a new dimension. The rope-like, highly flexible LED luminaire is made of food-safe silicone and offers complete freedom when designing creative ceiling and wall arrangements. JANE has a homogeneous light distribution, with a diameter of only 18 mm. At up to 10 metres long, it is ideal for small and large visions. The light cables can be easily arranged into custom patterns with the ceiling clips and cable holders. JANE is available in 3000 K or 4000 K light colours and, with CRI ≥ 90, also delivers top colour rendering. This luminaire is unique because of its appearance. It is a new, highly decorative innovation from XAL – artistic and exclusive.

ES Con JANE, la flexibilidad en el diseño adquiere una nueva dimensión. Esta luminaria LED altamente flexible está fabricada de silicona y ofrece una total libertad para la realización de diseños creativos. JANE dispone de una proyección de 360 grados totalmente homogénea con un diámetro de tan solo 18 mm, y, gracias a su longitud de hasta 10 metros, es apta para proyectos de gran escala así como para pequeños proyectos. Los clips de techo y los soportes permiten combinar los cables fácilmente formando diseños llamativos. JANE está disponible en temperaturas de color de 3000 K o 4000 K y garantiza una muy buena reproducción cromática con IRC ≥ 90. Una luminaria única por su apariencia: una auténtica innovación de XAL con un enorme potencial decorativo, dotada de un toque artístico y exclusivo.

Mountings

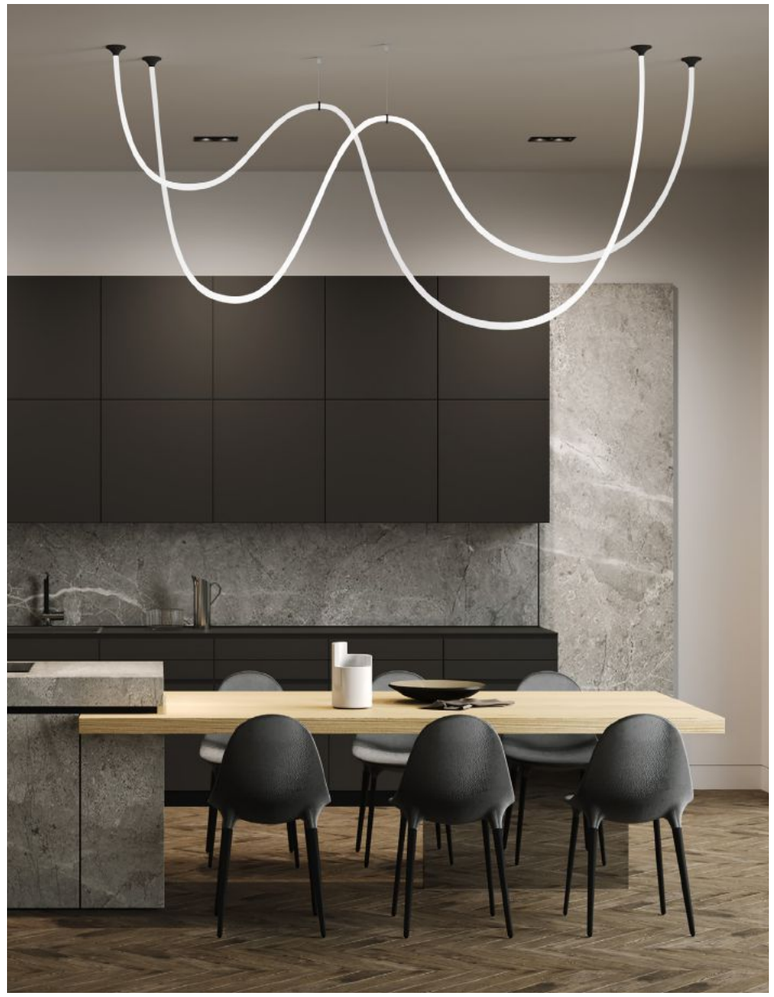
semi-recessed

surface

suspended

Light distribution

opal



Artistic sculptures

EN JANE curves along walls and loops from ceilings thanks to its flexibility. This corded, food-grade silicone luminaire promises full lighting-design freedom. Create dynamic patterns and artistic arrangements; bring unique and harmonious motion to life.

ES JANE cuelga de la pared y el techo con total flexibilidad. Fabricada de silicona, esta luminaria ofrece la máxima libertad en el diseño. Haga realidad patrones de iluminación únicos dotados de un toque excepcional y un movimiento armonioso.

Mounting options

EN JANE attaches to ceilings or walls easily to fully meet your needs. The luminaire hangs in position with ceiling clips and cord holders. The suspended cord is height-adjustable without any tools. Let your design ideas run free. You can even arrange JANE perfectly linearly thanks to the special track guide.

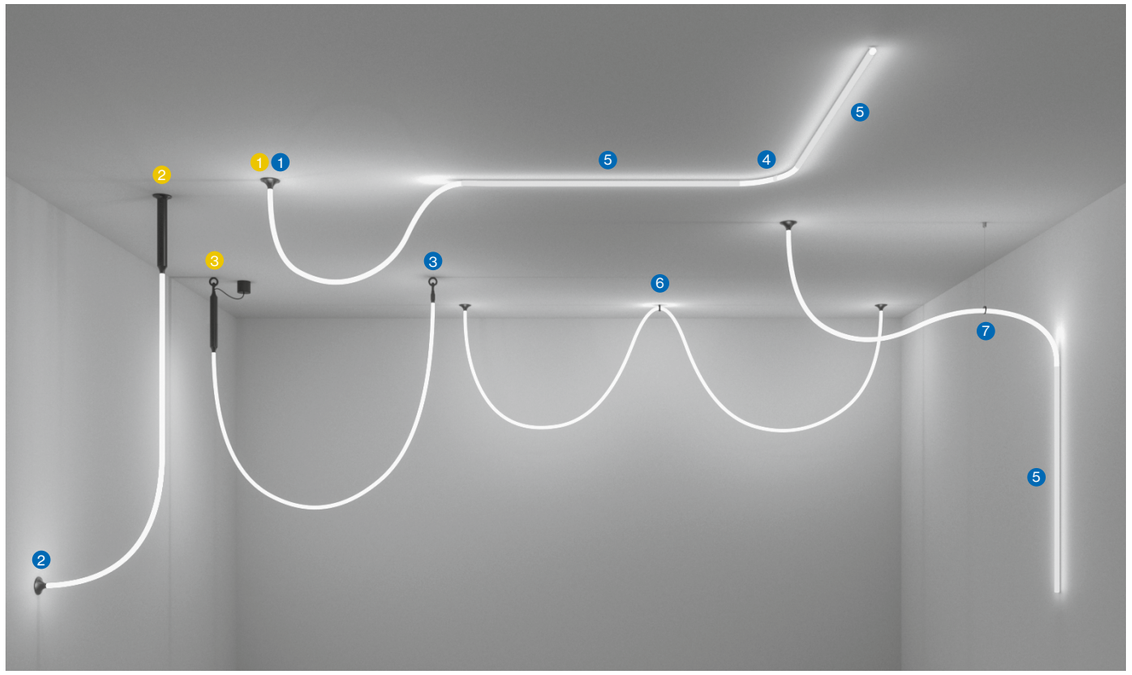
ES JANE se fija a techos o paredes de un modo fácil y totalmente personalizado. Los clips de techo y los soportes colocan a la luminaria en la posición deseada, y la altura de la suspensión por cable puede regularse sin necesidad de herramientas. Todo ello para que usted pueda dar rienda suelta a su creatividad. La configuración lineal también es posible: JANE puede guiarse totalmente en línea recta utilizando un carril transparente de superficie.

Mounting accessories

1. mounting set recessed
2. mounting set surface
3. mounting set suspended
4. clip surface (transparent)
5. channel surface (transparent)
6. mounting ring surface
7. mounting ring suspended

Electrical accessories

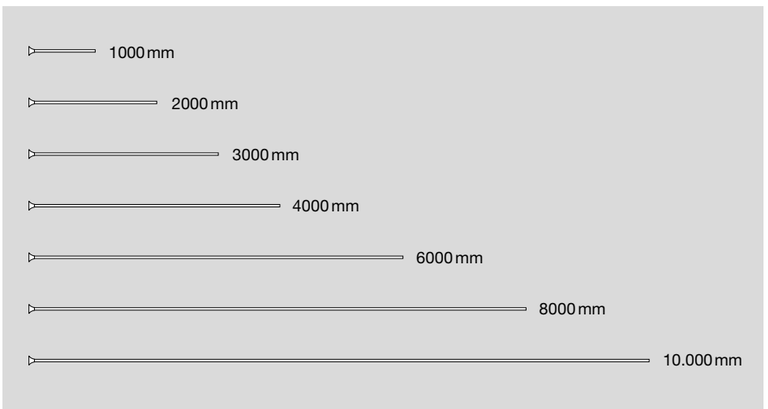
1. power supply recessed
2. power supply surface
3. power supply suspended



Length variety

EN How far does your vision go? JANE adapts to your project dimensions whether expansive or confined. Create light sculptures perfectly tailored to the space and the ambience in a wide range of sizes thanks to its varying light cord lengths, from 1 to 10 m.

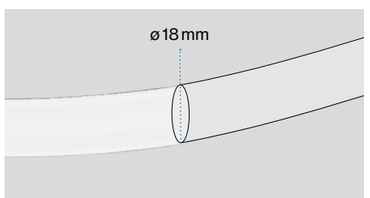
ES ¿Es grande la idea que tiene en mente? Ya se trate de ideas grandes o pequeñas, JANE se adapta a las dimensiones específicas de su proyecto. Distintas longitudes de cable de 1 a 10 m permiten elaborar esculturas luminosas de los más diversos tamaños, perfectamente adaptadas al espacio disponible y a la atmósfera del entorno.



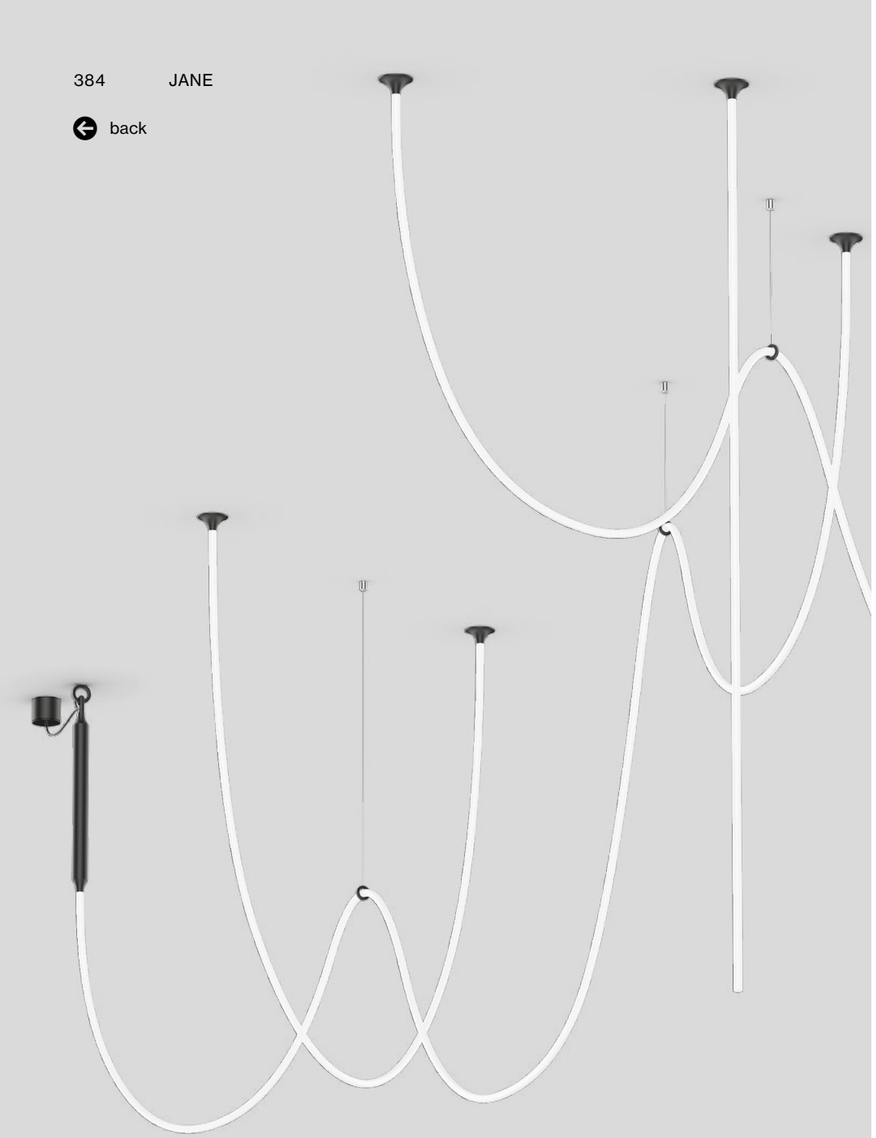
Slim and decorative

EN JANE is so much more than merely decorative. Its focussed 18 mm diameter packs enormous punch. The light cord's uniform all-round 360° beam characteristics deliver balanced illumination. Craft beautiful, swooping light sculptures and generate pleasant, homogeneous lighting wherever JANE is set.

ES Más que "meramente decorativa": JANE ofrece innumerables posibilidades en sus solo 18 mm de diámetro. Este cable de luz proporciona una iluminación equilibrada gracias a su proyección homogénea de 360°. Las esculturas de luz dinámicas creadas con JANE no solo son el foco de todas las miradas, sino que también proporcionan un alumbrado homogéneo.



back



reddot winner 2020

JANE

semi-recessed / surface / suspended

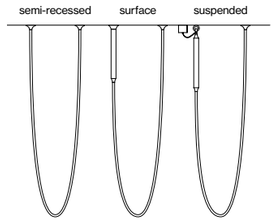
EN Highly flexible light rope made of food grade silicone for creative and decorative design; extremely slim design (only 18 mm diameter); for wall-/ceiling surface mounting or suspended mounting (cable suspension, height adjustment without tools); completely homogeneously illuminated, matt surface; 360° light emission; energy-efficient LEDs with very good colour rendering; optionally with external converter for ceiling installation or suspended in combination with the light rope (available as an accessory)

ES Cable de luz altamente flexible de silicona alimentaria para un diseño creativo y decorativo; diseño extremadamente esbelto (solo 18 mm de diámetro); para montaje sobre pared/techo o suspendido (suspensión por cable, ajuste de altura sin herramienta); superficie mate de iluminación totalmente homogénea; 360° de emisión; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; convertidor externo opcional para integración en techo o suspendido en combinación con el cable de luz (disponible como accesorio)

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 1000 lm/m
up to 71 lm/W
L80 @ 50 000 h
non DIM, DALI
IP 40

Types

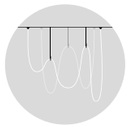


ø 18 x 1000 – 10 000

Canopy colours

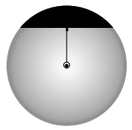
Light distribution

360°



many mounting options

dust and insect protection (IP 40)



360° light emitting

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI	3

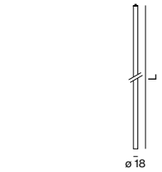
LENGTH L

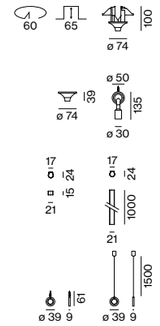
1000 mm	1
2000 mm	2
3000 mm	3
4000 mm	4
6000 mm	6
8000 mm	8
10000 mm	0

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, rope silicone





JANE semi-recessed / surface / suspended

CRI ≥ 90 | RG 0 IEC 62471 | 48 V | IP 40 | HOT PLUG SAFE

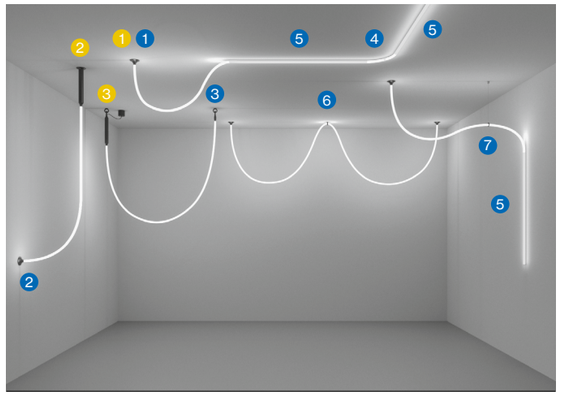
LUMINAIRE

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14.4 W/m	3000 K	812 lm/m	058-651 L 10
	4000 K	1000 lm/m	

Mounting accessories

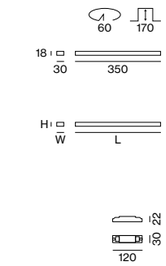
MOUNTING ACCESSORIES

	TYPE	L-W-H (mm)	ORDER CODE
1	mounting set recessed	ø 74·100	058-659021
2	mounting set surface	ø 74·39	058-659101
3	mounting set suspended	ø 50/30·135	058-659201
4	clip surface (transparent)	15·21·24	058-659141 0
5	channel surface (transparent)	1000·21·24	058-659111 0
6	mounting ring surface	ø 39·9·61	058-659161
7	mounting ring suspended	ø 39·9	058-659261



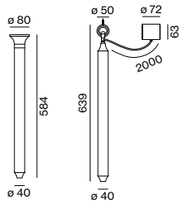
various mounting options with different mounting accessories

Electrical accessories



1 POWER SUPPLY RECESSED 220-240 V AC, 48 V, 50-60 Hz

TYPE		L·W·H (mm)	ORDER CODE
100 W recessed	PC II	350·30·18	002-62134
150 W recessed	PC II	350·30·18	002-62135
60 W revision opening	PC II	163·43·32	002-62133
100 W revision opening	PC II	350·30·18	002-62134
150 W revision opening	PC II	350·30·18	002-62135
250 W revision opening	PC II	400·40·22	002-62139
320 W revision opening	PC I	252·90·44	002-60320
DALI device		120·30·22	058-6599330



2 POWER SUPPLY SURFACE 220-240 V AC, 48 V, 50-60 Hz

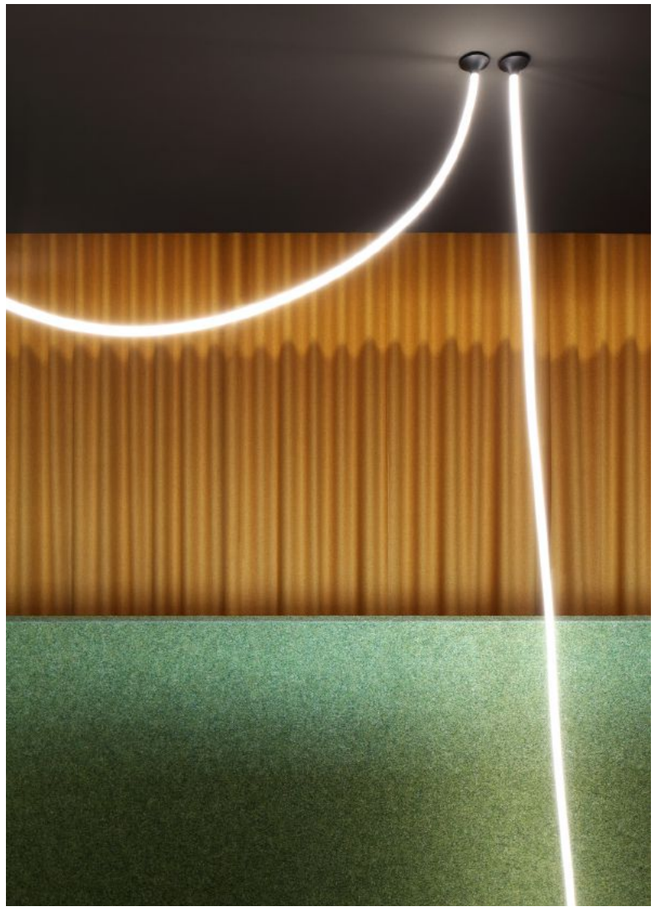
TYPE		L-ø (mm)	ORDER CODE
100 W surface	PC II	584·ø40	058-65912
150 W surface	PC II	584·ø40	058-65913

3 POWER SUPPLY SUSPENDED 220-240 V AC, 48 V, 50-60 Hz

TYPE		L-ø (mm)	ORDER CODE
100 W suspended	PC II	639·ø40	058-65922
150 W suspended	PC II	639·ø40	058-65923

incl. ceiling canopy and 2000 mm power cable

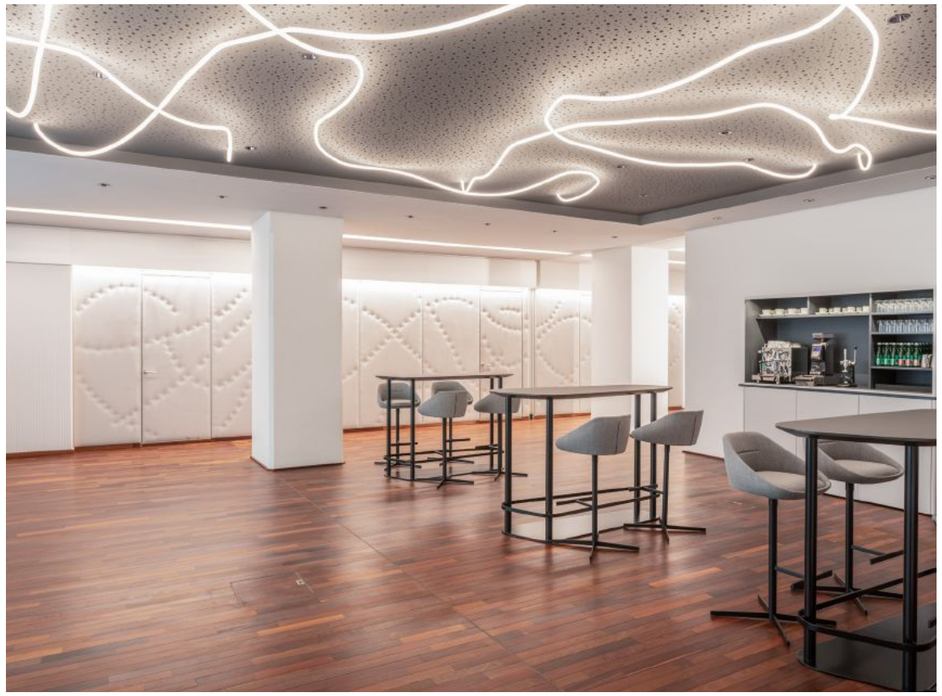
Upart Werbung & Kommunikation GmbH Linz-Urfahr, AT –
by MOSER UND HAGER Architekten ZT GmbH



The Raum Bolzano, IT –
by bergundtal gmbh.

Office Greenhouse Gent, BE –
by Boîte, Interieur & concept architecten

Binder Grösswang Rechtsanwälte GmbH Vienna, AT – by The Black Square Planungsbüro GmbH



Effective at work

DESO

EN A classic office luminaire that meets all requirements without being obtrusive. DESO convinces through its fantastic simple, rectangular shape. It can come with rounded corners or angular design.
Thanks to its microprismatic cover, it provides excellent workplace lighting, delivers optimum glare control of UGR ≤ 19, and is suitable for single and double workstations. The discreet indirect light distribution creates a pleasant, homogeneous ceiling illumination. An optional brightness and presence sensor automatically adjusts the lighting to the ambient brightness in the office.

ES Una luminaria clásica de oficina que satisface todos los requisitos sin llamar la atención sobre sí misma: DESO convence por su forma sencilla y rectangular –ya sea en el modelo angulado o de esquinas redondeadas– y su construcción plana. Su difusor microprismático la convierte en una excelente luz de puesto de trabajo exenta de deslumbramiento con UGR ≤ 19, siendo apta para puestos dobles o individuales. La discreta emisión de luz indirecta genera además una iluminación del techo agradable y homogénea. Un sensor de movimiento y luz natural opcional adapta automáticamente la iluminación a la luminosidad ambiental de la oficina.

Types

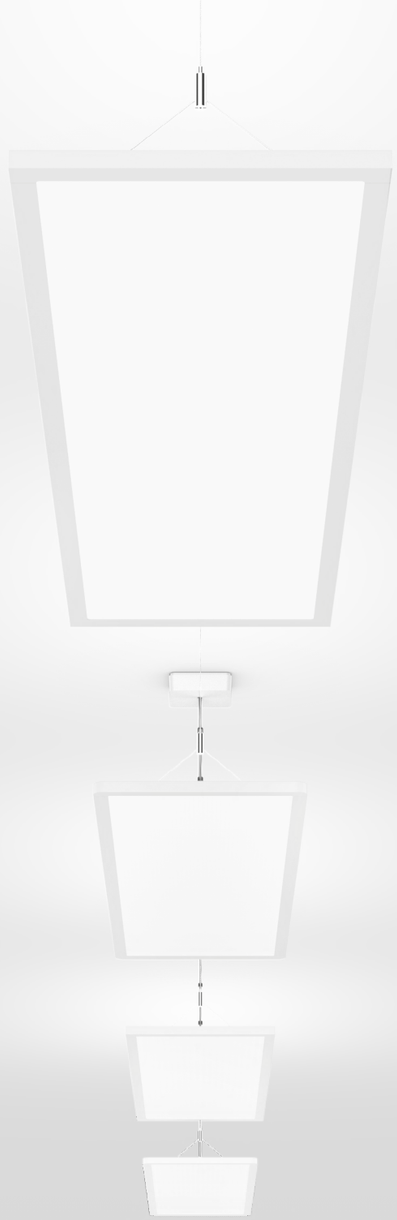
angular 1180 | angular 1480 | rounded 1180 | rounded 1480

Mounting

suspended

Light distribution

direct
indirect



DESO

suspended

EN Rectangular luminaire housing in aluminium; choice of angular design or with rounded edges; ultra low-profile design (only 15 mm); surface powder coated; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; incl. feed (white); electronic operating unit installed in the canopy; direct / indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; direct component: microprismatic PMMA cover; indirect component covered with opal cover; homogeneous illumination; energy-efficient LEDs with very good colour rendering; canopy for through wiring

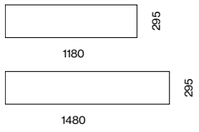
ES Cuerpo de luminaria rectangular de aluminio; disponible en variante angulosa o de bordes redondeados; perfil extraplano (solo 15 mm); superficie con recubrimiento de pintura en polvo; suspensión por cable; altura regulable sin herramienta; incl. cable de alimentación (blanco); driver integrado en remate de techo; distribución de luz directa/indirecta por cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia arriba/abajo por un grabado láser; componente directa con difusor microprismático de metacrilato; componente indirecta cuenta con difusor opal; iluminación homogénea; LEDs de alta eficiencia con muy buena reproducción cromática; remate de techo para cableado

Quickinfo

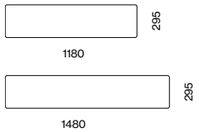
3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 131 lm/W
L90 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)

Types

DESO



DESO rounded



Colours

Light distribution

detail end caps

detail rounded end caps

DIN EN 12464-1
UGR ≤ 19

direct / indirect illumination

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010

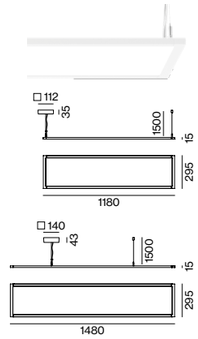
LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

CONTROL

non DIM
ESSENTIAL sensor (brightness & presence)

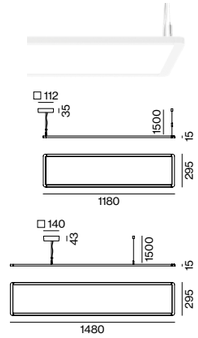


DESO suspended

UGR ≤ 19	cd/m² ≤3000	RG 0 IEC 62471	DALI 1 ADDR.	220-240 V	X-PERT	X-PERT

DIRECT / INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
39 W	3000 K	↧2750 / ↥2090 lm	1180	0 7 4 - 2 2 4 4 ⁘ 3 7 P
	4000 K	↧2910 / ↥2210 lm		
64 W	3000 K	↧3360 / ↥2540 lm	1480	0 7 4 - 2 2 4 5 ⁘ 3 7 P
	4000 K	↧4400 / ↥3340 lm		



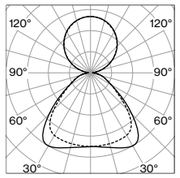
DESO rounded suspended

UGR ≤ 19	cd/m² ≤3000	RG 0 IEC 62471	DALI 1 ADDR.	220-240 V	X-PERT	X-PERT

DIRECT / INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
39 W	3000 K	↧2750 / ↥2090 lm	1180	0 7 4 - 3 2 4 4 ⁘ 3 7 P
	4000 K	↧2910 / ↥2210 lm		
64 W	3000 K	↧3360 / ↥2540 lm	1480	0 7 4 - 3 2 4 5 ⁘ 3 7 P
	4000 K	↧4400 / ↥3340 lm		

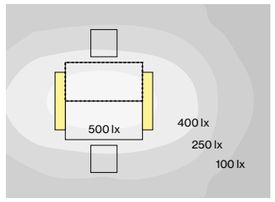
Light distribution



microprismatic
direct / indirect

LUMINOUS FLUX value calculated for
CRI ≥ 80, colour white, cover microprismatic

Technical data



DESO suspended, 39 W, 4000 K, direct / indirect

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 16
UGR axial	≤ 16

≥ 65° ≤ 3000 cd/m²

Highlight Towers Munich, DE –
lighting design by Lumen3 GbR

Ultra-slim office series

TASK

EN The ultra-slim TASK series fulfils all requirements of modern office lighting while being impressively flexible. Innovative technology and highly efficient LEDs meet minimalistic design. Thanks to its microprismatic cover, TASK provides bright and glare-minimised work light. The large product family includes ceiling, wall, floor, and table luminaires in a shared, sleek design language. The optional indirect light provides pleasant ceiling illumination. In addition, the ESSENTIAL sensor enables dynamic adjustment of the TASK S system and the floor luminaire to the ambient brightness and room activity. The SENSE variant also measures values such as temperature, air quality, humidity, and noise level. The SENSE sensor is IoT ready and enables the TASK free standing to transfer data via WLAN. For optimal room acoustics, the luminaires can be supplemented with highly effective acoustic elements with the same appearance.

ES La serie ultraesbelta TASK satisface todos los requisitos de la moderna iluminación de oficinas, además de ofrecer una impresionante flexibilidad. Una tecnologia innovadora y unos LED extremadamente eficientes se combinan con un diseño minimalista. Gracias a su difusor microprismático, TASK emite una luz con un deslumbramiento mínimo. Esta gran familia de productos incluye luminarias de techo, pared, pie y mesa en su característico diseño. TASK está disponible como luminaria individual, pudiendo ampliarse con otros componentes en un sistema mediante un mecanismo de clic. La luz indirecta opcional proporciona una iluminación de techo agradable. Además, el sensor ESSENTIAL permite adaptar dinámicamente el sistema TASK S y la luminaria de pie a la luminosidad del entorno y a la actividad de la sala. La variante SENSE también mide valores como la temperatura, la calidad y humedad del aire y el nivel de ruido. El sensor SENSE está preparado para el IoT y permite al TASK free standing transmitir datos vía WLAN. Para obtener una acústica ambiental óptima, los cuerpos luminosos pueden combinarse con elementos acústicos altamente eficaces de apariencia similar.

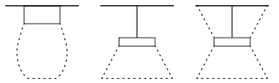
Types

300 450 600 900 luminaire	320 450 600 luminaire	1200 1500 luminaire	1200 1500 1800 2400 luminaire	600 900 1200 acoustic	1200 acoustic	600 900 1200 acoustic	1200 acoustic

Mountings

ceiling · suspended · wall · free standing · table

Light distributions

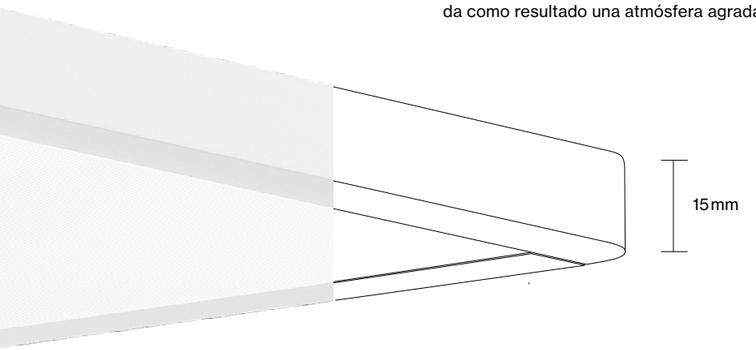


microprismatic (UGR ≤ 19) · direct · direct / indirect

Ultra-slim and versatile

EN TASK combines an ultra-slim design with innovative lighting technology. These include, in particular, an LGP (Light Guiding Prism), which directs the laterally coupled light from highly efficient LEDs upwards and downwards. It creates a pleasant room atmosphere through a balanced relationship between direct and indirect light.

ES TASK combina un diseño ultrafino con una tecnología de iluminación innovadora. A esta pertenece, entre otros elementos, un prisma LGP (Light Guiding Prism) encargado de guiar hacia arriba y hacia abajo la luz acoplada lateralmente procedente de LED ultraeficientes. Esto crea una relación equilibrada entre la luz directa y la indirecta, que da como resultado una atmósfera agradable.



One design – many options

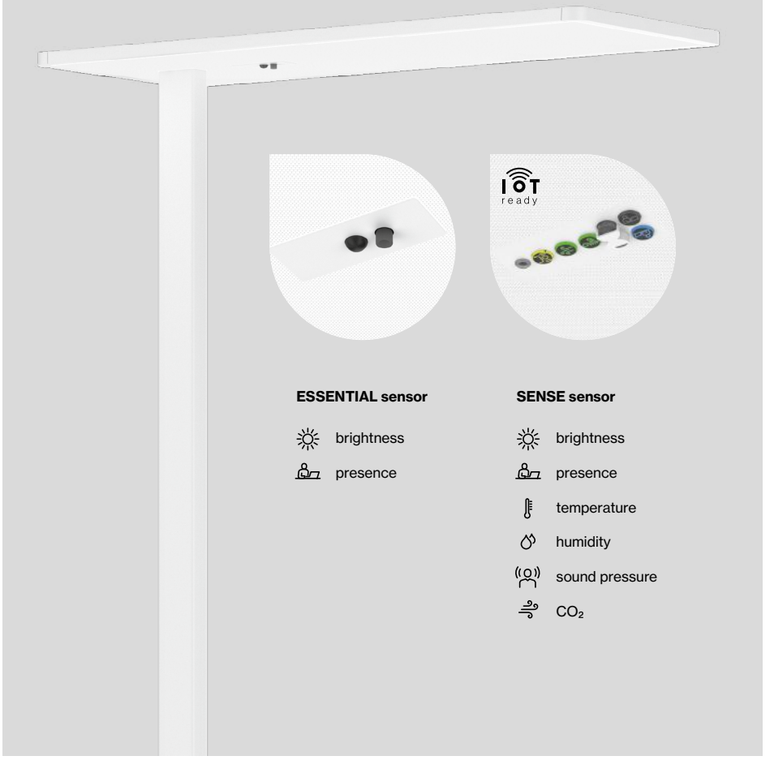
EN Thanks to a variety of shapes and mounting options, available individually but also as a system variant, TASK creates uniform lighting solutions for the most diverse projects. Pendant or surface-mounted luminaires for walls and ceilings can be supplemented by mobile floor and table luminaires. Flexible in use and uniform in design.

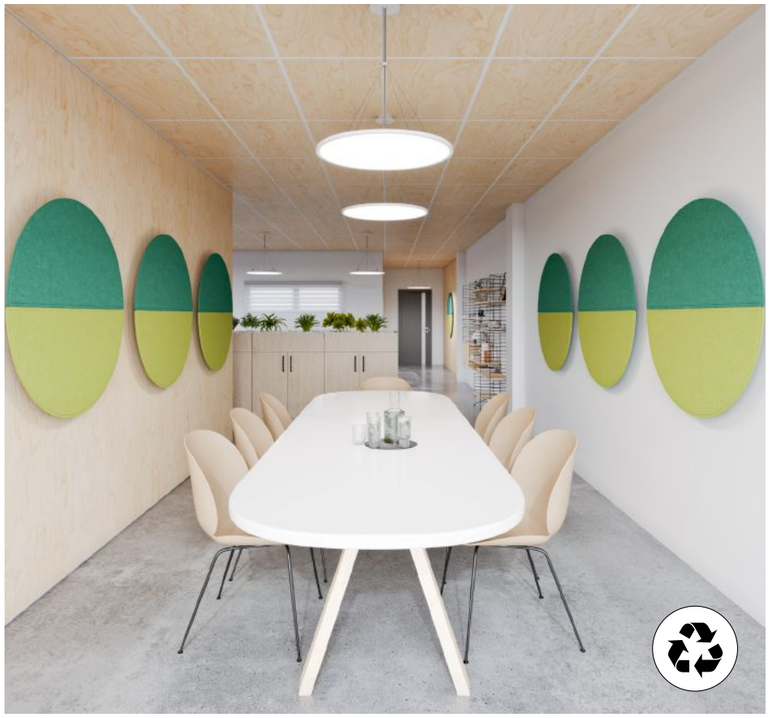
ES La luz es importante, pero no por sí sola. Una acústica ambiental adecuada también influye considerablemente en nuestra confortabilidad en el lugar de trabajo. Unos paneles acústicos en seis colores fabricados de un 60% de PET reciclado completan la serie TASK y reducen el ruido ambiental en la oficina.

Advanced sensor technology

EN The TASK S single luminaire and the TASK Free Standing adapt to daylight and room activity. Integrated motion sensors automatically dim the lighting while smart daylight sensors enable the light intensity to be adjusted to the ambient brightness. In addition, the SENSE version measures values such as temperature, air quality, humidity, and noise level. These data provide important insights into the conditions and use of rooms, and also support energy savings in the long term. The data from the sensors is transmitted via DALI. The SENSE sensor is IoT ready and enables the TASK free standing to transfer data via WLAN.

ES La luminaria TASK S individual y la TASK Free Standing se adaptan a la luz del día y a la actividad de la sala. Los sensores de movimiento integrados atenúan automáticamente la iluminación cuando la sala está vacía. Unos sensores Daylight inteligentes permiten adaptar la intensidad luminosa a la luminosidad del entorno. La variante SENSE también mide valores como la temperatura, la calidad y humedad del aire y el nivel de ruido. Estos datos no solo ofrecen información importante sobre las condiciones y el uso de las salas, sino también fomentan el ahorro energético de un modo duradero. Los datos de los sensores se transmiten a través de DALI. El sensor SENSE está preparado para el IoT y permite al TASK free standing transmitir datos vía WLAN.

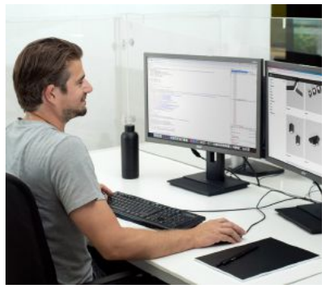




Pleasant room acoustics

EN Light is decisive but not solely. Pleasant room acoustics have a significant impact on job satisfaction. Acoustic panels in various colours and made of 60 %-recycled PET complement the TASK series and reduce background noise in the office. For concentrated, productive work.

ES Libertad de configuración gracias a conexiones enchufables: cada elemento de un sistema TASK S puede reordenarse, combinarse y conectarse eléctricamente sin necesidad de herramientas con un solo clic. Y, en caso de que se deba ampliar la oficina o rediseñar el espacio existente, el sistema de iluminación es capaz de adaptarse fácilmente a cualquier modificación.



Screen-work friendly

EN TASK guarantees standard-compliant illumination of workplaces with custom anti-glare prisms. TASK also focuses on brightness and reduces reflections. An ideal light source for double workstations in open-plan offices and also for single workstations in smaller offices.

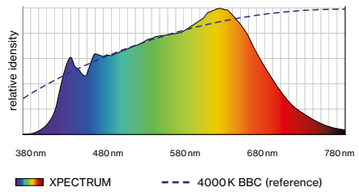
ES TASK garantiza una iluminación de puestos de trabajo adaptada a la normativa mediante el uso de prismas especiales antideslumbrantes. Pone el foco en la luminosidad y reduce los reflejos. Una fuente de luz ideal para puestos de trabajo dobles en oficinas de gran tamaño, pero también para puestos de trabajo individuales en oficinas pequeñas.

Full-spectrum LED

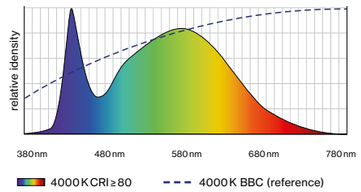
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES T_M 30-15 R_f = 98 and R_g = 101 further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices R_f = 98 y R_g = 101 según la norma IES TM-30-15– garantiza una mayor comodidad visual.

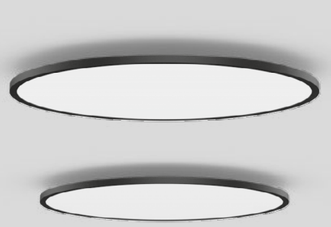
XPECTRUM LED



Commercially available LED 4000 K



back



reddot award 2019
winner

TASK round

surface

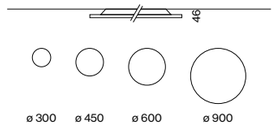
EN Round luminaire housing in aluminium; ultra low-profile design (only 15 mm); surface powder coated; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring; sound absorbing accessories available

ES Luminaria redonda de aluminio; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; sistema de montaje rápido sin herramientas; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión; disponible accesorio para la absorción del ruido

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 136 lm/W
L90 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)
IP 40

Types



Colours

standard xal.com/colours

Light distribution

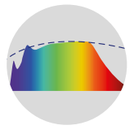
direct

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

easy mounting by
click-mechanism

acoustic
elements (p. 456)



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

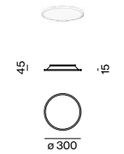
COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

CONTROL

Casambi

LUMINOUS FLUX value calculated for
CRI ≥ 90, colour white, cover microprismatic

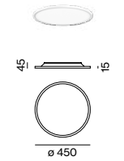


TASK 300 round surface

CRI ≥ 90 | UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.4 W	3000 K	1020 lm	059-0150 :: 3 ◪ P
	4000 K	1080 lm	

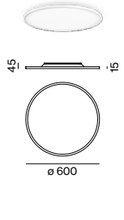


TASK 450 round surface

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	3000 K	1750 lm	059-0141 :: 3 ◪ P
	4000 K	1860 lm	
22.8 W	3000 K	2400 lm	059-0151 :: 3 ◪ P
	4000 K	2560 lm	

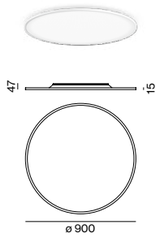


TASK 600 round surface

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30 W	3000 K	3470 lm	059-0142 :: 3 ◪ P
	4000 K	3690 lm	
40 W	3000 K	4350 lm	059-0152 :: 3 ◪ P
	4000 K	4630 lm	



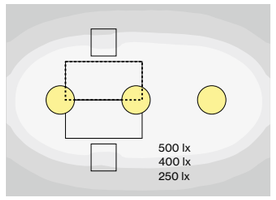
TASK 900 round surface

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
52 W	3000 K	6630 lm	059-0143 :: 3 ◪ K
	4000 K	7060 lm	

Technical data



TASK 600 round surface
30 W, 4000 K, direct

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

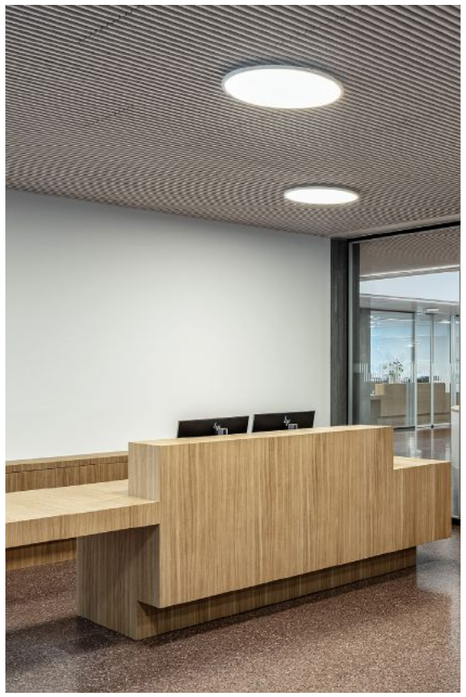
CALCULATION SURFACE

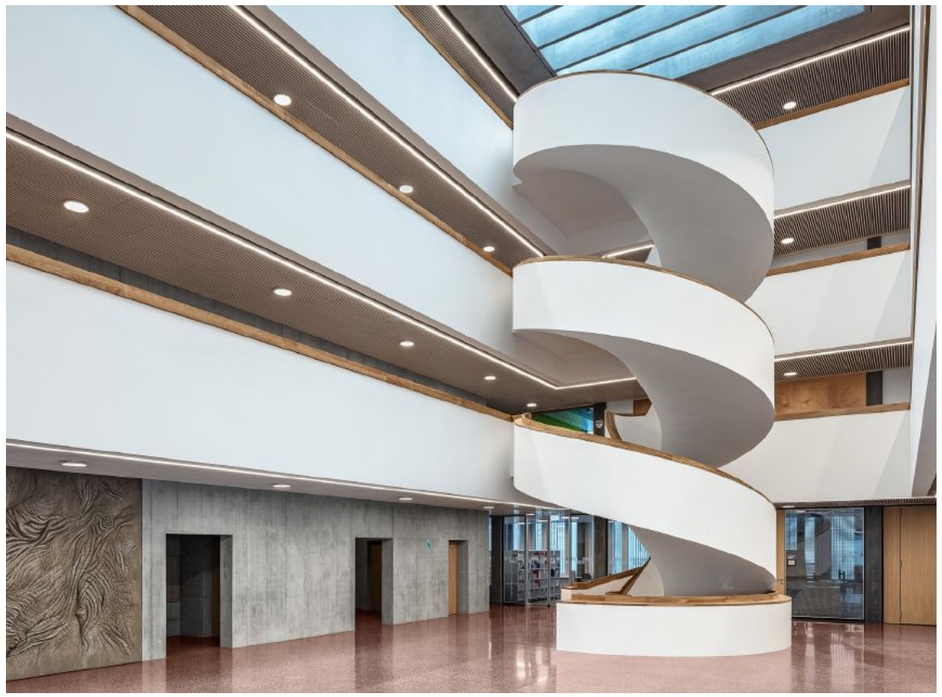
Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal ≤ 19
UGR axial ≤ 19
≥ 65° ≤ 3000 cd/m²

XUND Bildungszentrum Lucerne, CH –
by Metron AG with lighting design
by Bühlmann Engineering AG





Triplex Universitätsbibliothek und Ausleihe Heidelberg, DE – by ap88 Architekten Partnerschaft mbB with lighting design by LDE BELZNER HOLMES

TASK round

suspended

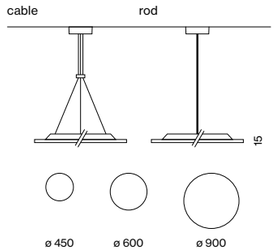
EN Round luminaire housing in aluminium; ultra low-profile design (only 15 mm); powder coated; suspended; with height adjustable rod suspension (chrome), feed in rod; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; canopy for through wiring; sound absorbing accessories available

ES Luminaria redonda de aluminio; perfil extra plano (sólo 15 mm); recubierto de polvo; suspendido; con suspensión acortable de tubo pendular (cromo), línea de alimentación en tubo pendular; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; opcional: proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino para cableado pasante; disponible accesorio para la absorción del ruido

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 137 lm/W
L90 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)
IP 40

Types



Colours

standard xal.com/colours

Light distributions

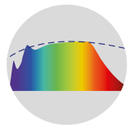
direct direct indirect

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

direct / indirect illumination

acoustic elements (p. 456)



CRI ≥ 98 XPECTRUM

Order options

SUSPENSION

cable 1500 mm	2
rod 1000 mm	4

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8
special colours* → p. 992	X

*canopy always in white

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

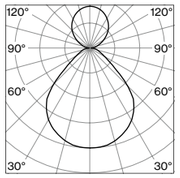
SUSPENSION

rod 2000 mm

CONTROL

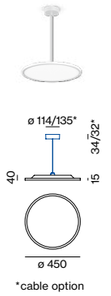
Casambi

Light distribution



microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic



*cable option

TASK 450 round suspended

CRI ≥90 | UGR ≤19 | cd/m² ≤3000 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

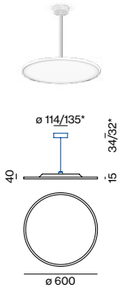
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16 W	3000 K	1750 lm	0 5 9 - 0 ○ 4 1 :: 3 ◪ P
	4000 K	1860 lm	

CRI ≥90 | UGR ≤19 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
38 W	3000 K	↧2710 / ↥1460 lm	0 5 9 - 0 ○ 6 1 :: 3 ◪ P
	4000 K	↧2880 / ↥1550 lm	



*cable option

TASK 600 round suspended

CRI ≥90 | UGR ≤19 | cd/m² ≤3000 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

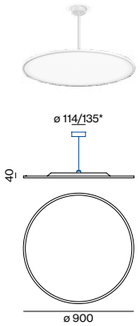
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30 W	3000 K	3470 lm	0 5 9 - 0 ○ 4 2 :: 3 ◪ P
	4000 K	3690 lm	

CRI ≥90 | UGR ≤19 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
45 W	3000 K	↧3470 / ↥1770 lm	0 5 9 - 0 ○ 6 2 :: 3 ◪ P
	4000 K	↧3690 / ↥1880 lm	



*cable option

TASK 900 round suspended

CRI ≥90 | UGR ≤19 | cd/m² ≤3000 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
52 W	3000 K	6630 lm	0 5 9 - 0 ○ 4 3 :: 3 ◪ K
	4000 K	7060 lm	

CRI ≥90 | UGR ≤19 | RG0 IEC 62471 | DALI 2 ADDR. | 220-240 V | X-PERT | X-PERT

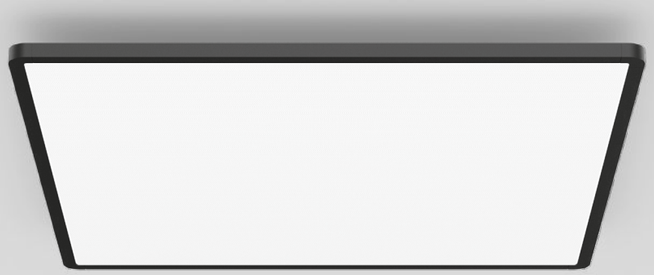
DIRECT / INDIRECT POWER

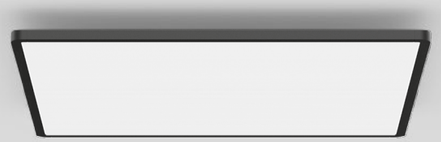
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
100 W	3000 K	↧8800 / ↥4110 lm	0 5 9 - 0 ○ 6 3 :: 3 ◪ K
	4000 K	↧9370 / ↥4370 lm	

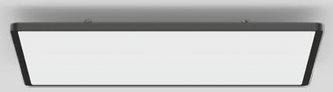
Office Gütersloh, DE –
by Haverkamp Interior Design

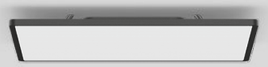
Microsoft Office
Brussels, BE –
by PROCOS Group

back









TASK square

surface

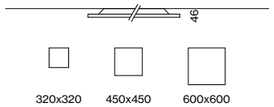
EN Square housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface powder coated; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring; sound absorbing accessories available

ES Cuerpo de luminaria cuadrado de aluminio con cantos redondeados; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; sistema de montaje rápido sin herramientas; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión; disponible accesorio para la absorción del ruido

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 137 lm/W
L90 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours → p. 992	X

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

COLOUR RENDERING INDEX

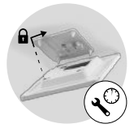
CRI ≥ 80
CRI ≥ 98 XPECTRUM

CONTROL

Casambi

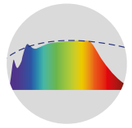
DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

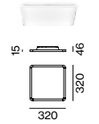


easy
mouting

acoustic
elements (p. 456)



CRI ≥ 98
XPECTRUM

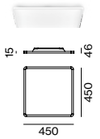


TASK 320 square surface

CRI ≥90 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11.8 W	3000 K	1230 lm	059-2110 ·· 3 ◪ K
	4000 K	1310 lm	

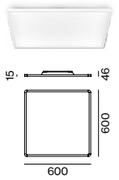


TASK 450 square surface

CRI ≥90 | UGR ≤ 19 | cd/m² ≤3000 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15 W	3000 K	1880 lm	059-2141 ·· 3 ◪ K
	4000 K	2000 lm	



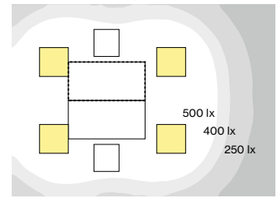
TASK 600 square surface

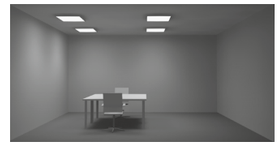
CRI ≥90 | UGR ≤ 19 | cd/m² ≤3000 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
27.3 W	3000 K	3510 lm	059-2142 ·· 3 ◪ K
	4000 K	3730 lm	

Technical data





TASK 600 square surface
27.3 W, 4000 K, direct

ROOM VALUES

Room dimensions	5.4×4×2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6×0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

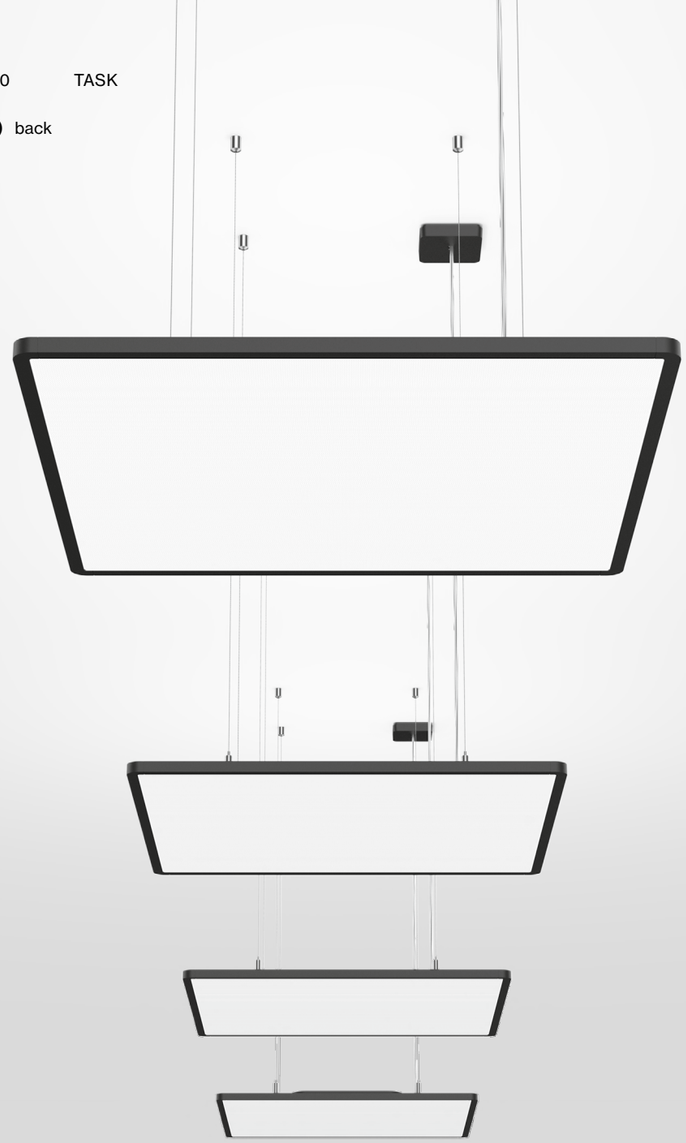
Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

≥ 65° ≤ 3000 cd/m²

LUMINOUS FLUX value calculated for
CRI ≥90, colour white, cover microprismatic

Art Invest headquarters Cologne, DE –
by Lepel & Lepel Architektur with
lighting design by Volker von Kardorff



TASK square

suspended

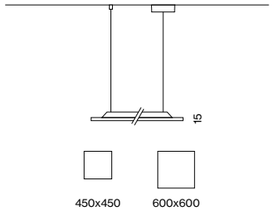
EN Square housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); powder coated; pendant fitting with cable suspension (4 cables); with integrated tool-less suspension height adjustment; incl. transparent feed; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-eff. LEDs – very good colour rendering; canopy for through wiring; sound absorbing accessories available

ES Cuerpo de luminaria cuadrado de aluminio con cantos redondeados; perfil extra plano (sólo 15 mm); recubierto de polvo; suspendido con cable (4 cables); regulación de la altura sin necesitar herramientas; incluido cable de alimentación transparente; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; opcional: proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino para cableado pasante; disponible accesorio para la absorción del ruido

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 137 lm/W
L90 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

Light distributions

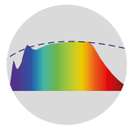
direct direct indirect

DiiA® standards 251, 252, 253

DIN EN 12464-1 UGR ≤ 19

flat design (15 mm)

acoustic elements (p. 456)



CRI ≥ 98 XPECTRUM

Order options

SUSPENSION
cable 1500 mm

COLOUR TEMPERATURE
3000 K 0
4000 K 1

CONTROL
DALI-2

MATERIAL COLOUR
○ pure white RAL 9010 7
● jet black RAL 9005 8
special colours* p. 992 X

*canopy always in white

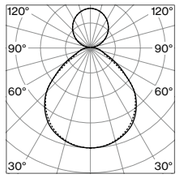
LIGHT OPTIC COVER
microprismatic (UGR ≤ 19)

Options on request

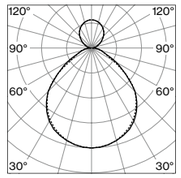
COLOUR RENDERING INDEX
CRI ≥ 80
CRI ≥ 98 XPECTRUM

CONTROL
Casambi

Light distributions

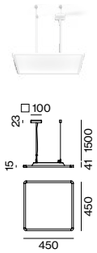


TASK 450 microprismatic direct / indirect power



TASK 600 microprismatic direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic



TASK 450 square suspended

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

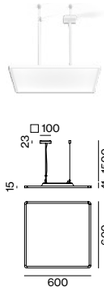
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15 W	3000 K	1880 lm	0 5 9 - 2 2 1 1 :: 3 ◪ K
	4000 K	2000 lm	

CRI ≥ 98 | UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
35 W	3000 K	↧ 2910 / ↥ 1470 lm	0 5 9 - 2 2 3 1 :: 3 ◪ K
	4000 K	↧ 3100 / ↥ 1570 lm	



TASK 600 square suspended

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

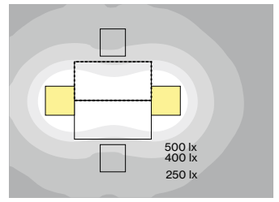
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
27.3 W	3000 K	3510 lm	0 5 9 - 2 2 1 2 :: 3 ◪ K
	4000 K	3730 lm	

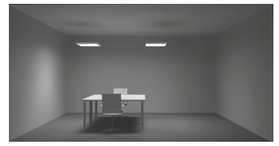
CRI ≥ 90 | UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
57 W	3000 K	↧ 5660 / ↥ 1530 lm	0 5 9 - 2 2 3 2 :: 3 ◪ K
	4000 K	↧ 6020 / ↥ 1620 lm	

Technical data





TASK 600 square suspended
57 W, 4000 K, direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE ·····

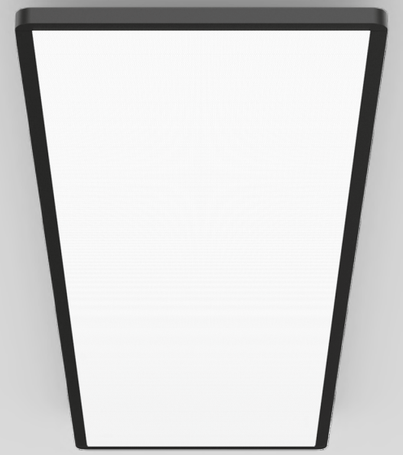
Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

XAL headquarters Graz, AT –
by INNOCAD Architektur ZT

back



TASK

ceiling

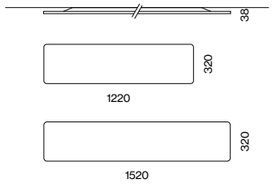
EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface powder coated; convenient quick mounting system without tools; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; luminaire with 2 cable openings and plug-in terminals for through wiring

ES Cuerpo de luminaria rectangular de aluminio con cantos redondeados; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; sistema de montaje rápido sin herramientas; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; luminaria con abertura de 2 orificios para integrar cableado y sencilla conexión

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 131 lm/W
L80 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1
tunable white 2700 – 6500 K*	

*DALI-2 DT8; CRI ≥ 80

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours ➔ p. 992	X

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

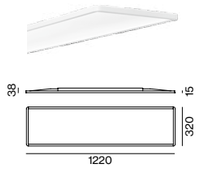
Options on request

COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

CONTROL

ESSENTIAL sensor (brightness & presence)

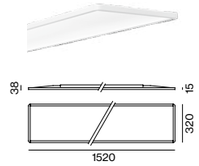


TASK 1200 ceiling

CRI ≥90	UGR ≤19	cd/m² ≤3000	RG0 IEC 62471	DALI 1 ADDR.	220-240V	X-PERT	X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
28.4 W	3000 K	3440 lm	059-2114 3 K
	4000 K	3660 lm	
29.3 W	2700 – 6500 K	↧↥ 3220 lm	059-2114D3 K



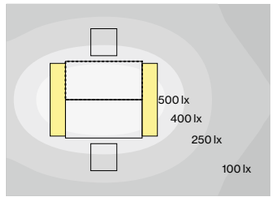
TASK 1500 ceiling

CRI ≥90	UGR ≤19	cd/m² ≤3000	RG0 IEC 62471	DALI 1 ADDR.	220-240V	X-PERT	X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
36 W	3000 K	4300 lm	059-2115 3 K
	4000 K	4570 lm	
37 W	2700 – 6500 K	↧↥ 4020 lm	059-2115D3 K

Technical data



TASK 1500 ceiling
36 W, 4000 K, direct

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

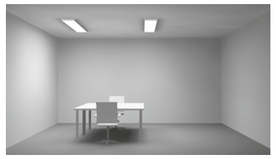
Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

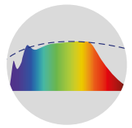
≥ 65° ≤ 3000 cd/m²



DiiA® standards 251, 252, 253

DIN EN 12464-1 UGR ≤ 19

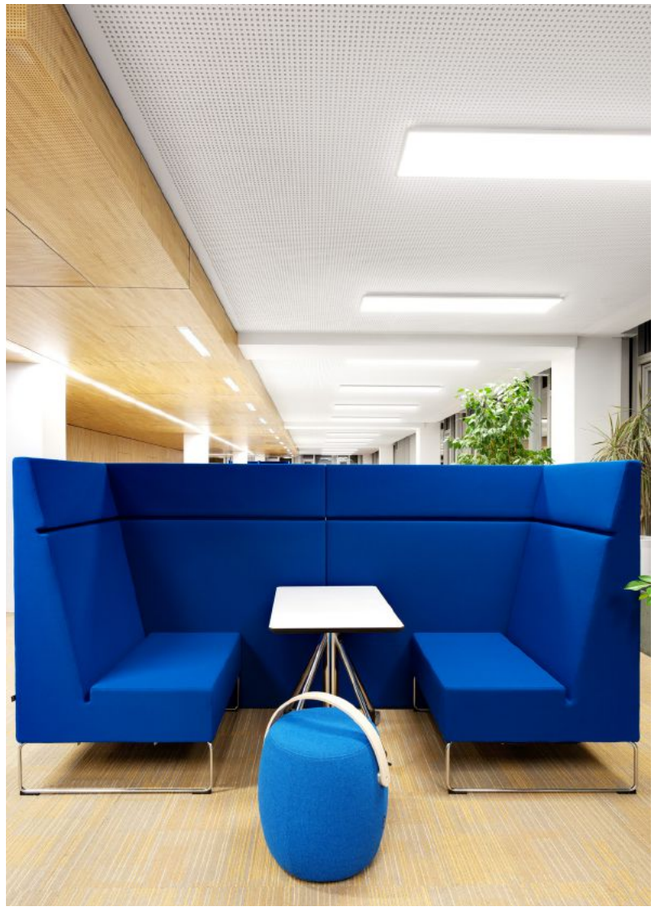
tunable white 2700 – 6500 K



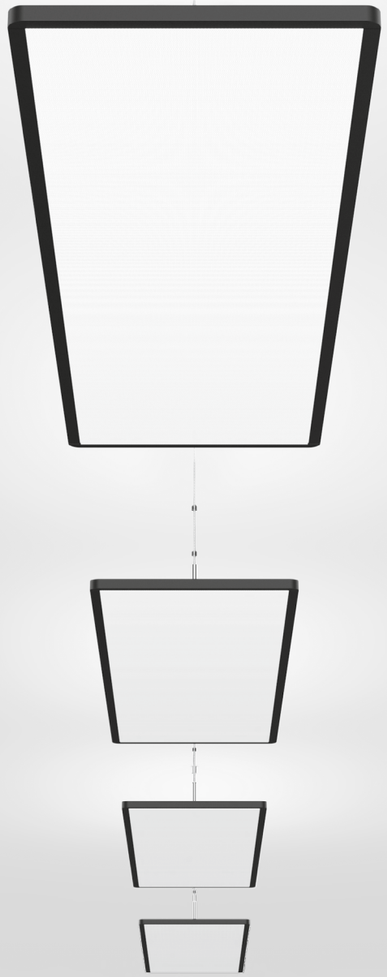
CRI ≥ 98 XPECTRUM

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic

Münchner Rückversicherung Munich, DE –
by Scholz - SorgerArchitekten Partnerschaft mbB
with lighting design by Lumen³ GbR



back



reddot award 2015
winner

DESIGN AWARD 2015

GOOD DESIGN

TASK

suspended

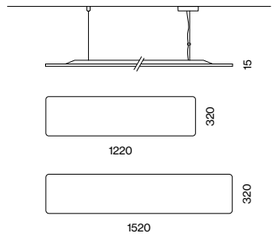
EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface powder coated; 1500 mm cable suspension, tool-less height adjustment; incl. transparent feed; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; canopy with 2 cable openings and plug-in terminal for through wiring

ES Cuerpo de luminaria rectangular de aluminio con cantos redondeados; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; suspens. cable de 1500 mm con altura regul. sin herram.; incluido cable de alimentación transparente; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino con abertura de 2 orificios para integrar el cableado y sencilla conexión

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 129 lm/W
L80 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)
IP 40

Types



Colours

standard xal.com/colours

Light distribution

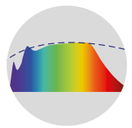
direct
indirect

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

direct / indirect
illumination

tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

SUSPENSION

cable 1500 mm

COLOUR TEMPERATURE

3000 K	0
4000 K	1
tunable white 2700 – 6500 K*	

*DALI-2 DT8; CRI ≥ 80

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8
special colours* ➔ p. 992	X

*canopy always in white

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

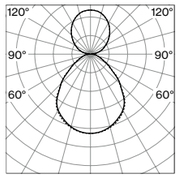
COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

CONTROL

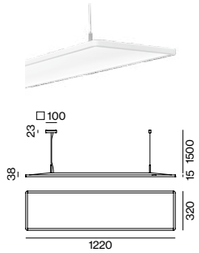
ESSENTIAL sensor
(brightness & presence)

Light distribution



microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for
CRI ≥ 90, colour white, cover microprismatic

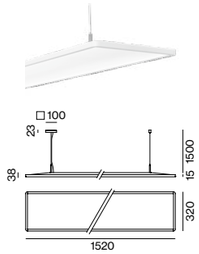


TASK 1200 suspended

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
50 W	3000 K	↧ 3890 / ↥ 2180 lm	0 5 9 - 2 2 2 4 :: 3 ◪ K
	4000 K	↧ 4140 / ↥ 2320 lm	
52 W	2700 – 6500 K	↧ 3620 / ↥ 2100 lm	0 5 9 - 2 2 2 4 D 3 ◪ K



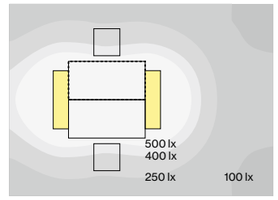
TASK 1500 suspended

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
63 W	3000 K	↧ 4860 / ↥ 2720 lm	0 5 9 - 2 2 2 5 :: 3 ◪ K
	4000 K	↧ 5170 / ↥ 2900 lm	
64 W	2700 – 6500 K	↧ 4530 / ↥ 2630 lm	0 5 9 - 2 2 2 5 D 3 ◪ K

Technical data



TASK 1200 suspended
50 W, 4000 K, direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

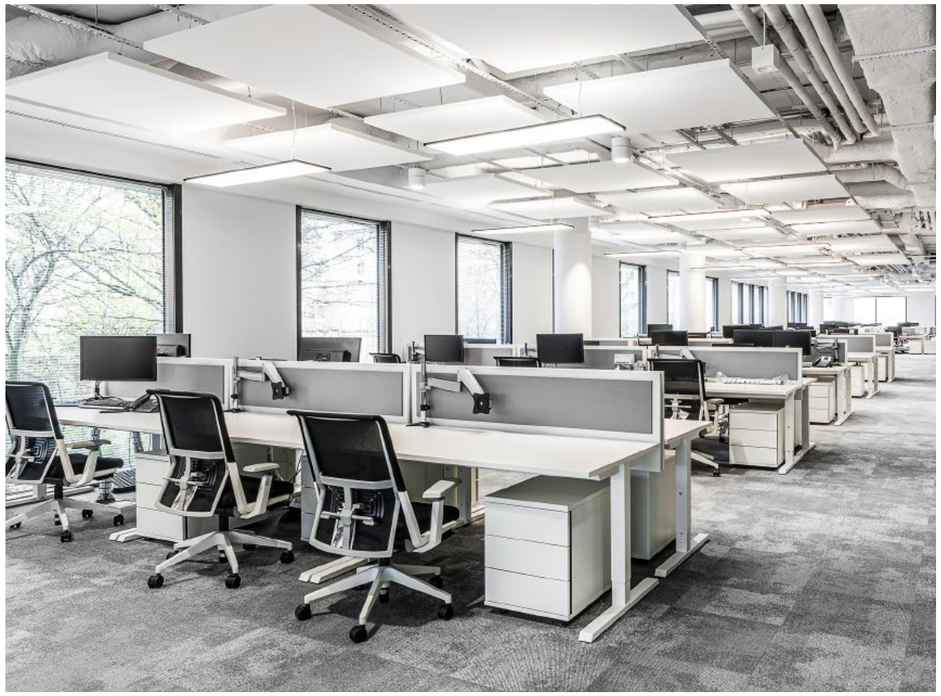
CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal ≤ 19
UGR axial ≤ 19
≥ 65° ≤ 3000 cd/m²

Takeda Office Lodz, PL –
by The Design Group with lighting design
by Plus Lighting



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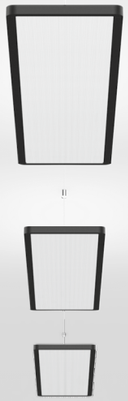


TASK S

suspended

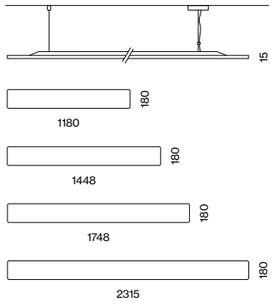
EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface powder coated; 1500 mm cable suspension, tool-less height adjustment; incl. transparent feed; direct or direct/indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed downwards or up and down by laser engraving; light control via highly reflective reflector material; optional: indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; canopy with 2 cable openings and plug-in terminal for through wiring

ES Cuerpo de luminaria rectangular de aluminio con cantos redondeados; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; suspens. cable de 1500 mm con altura regul. sin herram.; incluido cable de alimentación transparente; distribución de luz directa o directa/indirecta a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo o hacia arriba y hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; opcional: proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino con abertura de 2 orificios para integrar el cableado y sencilla conexión

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 126 lm/W
L95 @ 50 000 h
DALI-2
brightness & presence sensor
microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

Light distributions

direct indir. soft direct indir. power

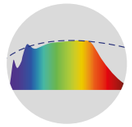
DiiA® standards 251, 252, 253

direct/indirect illumination

system solution (p. 812)

DIN EN 12464-1 UGR ≤ 19

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

SUSPENSION

cable 1500 mm	

COLOUR TEMPERATURE

3000 K	0
4000 K	1
tunable white 2700 – 6500 K*	

*DALI-2 DT8; CRI ≥ 80

3000 K + TW 2700 – 6500 K	
4000 K + TW 2700 – 6500 K	

DALI-2 DT8 (separately controllable)

CONTROL

DALI-2	3
ESSENTIAL sensor* (brightness & presence)	7

*version with sensor: length + 9 mm

MATERIAL COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours* ➔ p. 992	X

*canopy always in white

LIGHT OPTIC COVER

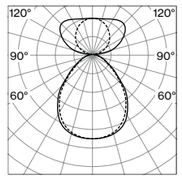
microprismatic (UGR ≤ 19)	

Order options

COLOUR RENDERING INDEX

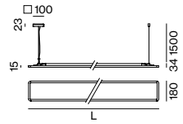
CRI ≥ 80	
CRI ≥ 98 XPECTRUM	

Light distribution



microprismatic
direct/indirect power

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic



TASK S suspended

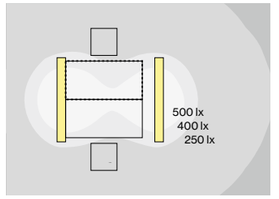
DIRECT/INDIRECT SOFT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
19.5 W	3000 K	↧ 1900 / ↥ 327 lm	1180	059-5254 K
	4000 K	↧ 2020 / ↥ 347 lm		
24.4 W	3000 K	↧ 2380 / ↥ 408 lm	1448	059-5255 K
	4000 K	↧ 2540 / ↥ 435 lm		
29.2 W	3000 K	↧ 2860 / ↥ 490 lm	1748	059-5256 K
	4000 K	↧ 3040 / ↥ 521 lm		
39 W	3000 K	↧ 3810 / ↥ 653 lm	2315	059-5258 K
	4000 K	↧ 4050 / ↥ 695 lm		

DIRECT/INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
29.6 W	3000 K	↧ 1890 / ↥ 1540 lm	1180	059-5264 K
	4000 K	↧ 2010 / ↥ 1640 lm		
28.6 W (2× DALI)	3000 K	↧ 1890 lm	1180	059-52D403 K
	2700 – 6500 K	↥ 1490 lm		
28.6 W (2× DALI)	4000 K	↧ 2010 lm	1180	059-52D413 K
	2700 – 6500 K	↥ 1490 lm		
36 W (2×)	2700 – 6500 K	↧↥ 4010 lm	1180	059-5264D K
37 W	3000 K	↧ 2360 / ↥ 1920 lm	1448	059-5265 K
	4000 K	↧ 2520 / ↥ 2050 lm		
36 W (2× DALI)	3000 K	↧ 2360 lm	1448	059-52D50 K
	2700 – 6500 K	↥ 1860 lm		
36 W (2× DALI)	4000 K	↧ 2520 lm	1448	059-52D51 K
	2700 – 6500 K	↥ 1860 lm		
44 W (2×)	2700 – 6500 K	↧↥ 5010 lm	1448	059-5265D K
44 W	3000 K	↧ 2840 / ↥ 2310 lm	1748	059-5266 K
	4000 K	↧ 3020 / ↥ 2460 lm		
43 W (2× DALI)	3000 K	↧ 2840 lm	1748	059-52D60 K
	2700 – 6500 K	↥ 2230 lm		
43 W (2× DALI)	4000 K	↧ 3020 lm	1748	059-52D61 K
	2700 – 6500 K	↥ 2230 lm		
53 W (2×)	2700 – 6500 K	↧↥ 6010 lm	1748	059-5266D K
59 W	3000 K	↧ 3780 / ↥ 3080 lm	2315	059-5268 K
	4000 K	↧ 4030 / ↥ 3270 lm		
57 W (2× DALI)	3000 K	↧ 3780 lm	2315	059-52D80 K
	2700 – 6500 K	↥ 2970 lm		
57 W (2× DALI)	4000 K	↧ 4030 lm	2315	059-52D81 K
	2700 – 6500 K	↥ 2970 lm		
71 W (2×)	2700 – 6500 K	↧↥ 8010 lm	2315	059-5268D K

Technical data



TASK S suspended, 1748 mm
44 W, 4000 K, direct/indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H	
UGR transversal	≤ 19
UGR axial	≤ 19

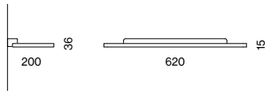
Dr. Schaer Burgstall, IT –
by monovolume architecture+
design with lighting design by
VON LUTZ - electrical and
lighting projects / Alexa von Lutz

back

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 16)

Type



Colours

Light distribution

direct
indirect

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

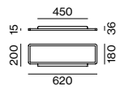
LIGHT OPTIC COVER

microprismatic (UGR ≤ 16)

Options on request

COLOUR RENDERING INDEX

CRI ≥ 80



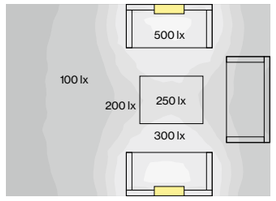
TASK wall

CRI ≥90 | UGR ≤16 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240V | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
46 W	3000 K	↧1850 / ↥3530 lm	0 5 9 - 2 0 3 2 :: 3 ◪ Z
	4000 K	↧1970 / ↥3760 lm	

Technical data



TASK wall
46 W, 4000 K, direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4.0 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE

Surface dimensions	Floor
Surface height	0 m

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

TASK

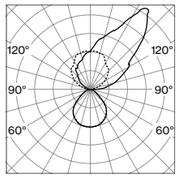
wall

EN Rectangular housing made of aluminium with rounded edges; ultra low-profile design (only 15 mm); surface powder coated; suitable for wall mounting; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; indirect component with special PCBs with asymetrical light distribution; for optimum ceiling illumination; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering

ES Cuerpo de luminaria rectangular de aluminio con cantos redondeados; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; apropiada para montaje pared; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; orientación luz por medio de un elemento altamente reflectante; proporción indirecta con pletinas propias con distribución de luz asimétrica; para una iluminación óptima del techo; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

asymmetrical ceiling
illumination

Light distribution



microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for
CRI ≥90, colour white, cover microprismatic

Lobby
Visualisation

back

reddot award 2015
winner

TASK

free standing

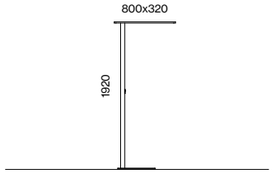
EN Free standing luminaire with rectangular luminaire head made of aluminium and rounded edges; ultra low-profile design (only 15 mm); rectangular downpipe; pedestal with recess for table base; surface powder coated; direct / indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed up and down by laser engraving; optional: indirect component with special PCBs for increased luminous flux; optional: indirect component with special, inclined PCBs for asymmetric radiation characteristic; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; switch installed in the downpipe; incl. connection cable (3 m) with safety plug

ES Luminaria de pie con cabezal de luminaria rectangular de aluminio y cantos redondeados; perfil extra plano (sólo 15 mm); tubo rectangular; pedestal para integrarse como base de mesa; superficie con recubrimiento de pintura en polvo; distribución de luz directa / indirecta que direcciona la luz en el interior de la luminaria mediante LGP (Light Guiding Prism); luz acoplada lateralmente mediante grabado láser orientada hacia arriba y hacia abajo; opcional: proporción indirecta con pletinas propias para un flujo luminoso aumentado; opcional: proporción indirecta con pletinas propias oblicuas para característica de emisión asimétrica; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; interruptor montado en el tubo; incluye 3 metros de cable de conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 129 lm/W
L90 @ 50 000 h
touch DIM on pole
brightness & presence sensor
microprismatic (UGR ≤ 19)

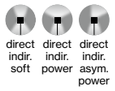
Type



Colours

standard xal.com/colours

Light distributions



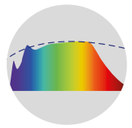
direct indir. soft | direct indir. power | direct indir. asym. power

suitable for double workstation

SENSE sensor on request

control by touch DIM on pole

tunable white 2700 – 6500 K

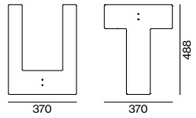


CRI ≥ 98 XPECTRUM

Order options

BASE PLATE

U-shape	4
T-shape	5



COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

touch DIM on pole	5
ESSENTIAL sensor (brightness & presence)	7

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	6
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

COLOUR TEMPERATURE

tunable white 2700 – 6500 K indir.

COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

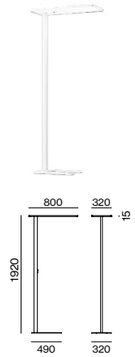
CONTROL

SENSE sensor (brightness, presence, temperature, sound pressure, humidity, CO_2)
cluster network DIM
dynamic daylight control (BPI)
Zigbee 3.0

MOUNTING

table system

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic



TASK free standing

CRI ≥ 90 | UGR ≤ 19 | RG 0 IEC 62471 | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT SOFT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
71 W	3000 K	↧4100 / ↥3350 lm	0 5 9 - 2 9 ⊔ 3 ⁘ ◪ Z
	4000 K	↧4370 / ↥3560 lm	

CRI ≥ 90 | UGR ≤ 13 | cd/m² ≤ 3000 | RG 0 IEC 62471 | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

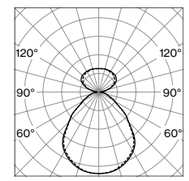
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
80 W	3000 K	↧2400 / ↥7330 lm	0 5 9 - 2 9 ⊔ 2 ⁘ ◪ Z
	4000 K	↧2550 / ↥7800 lm	

CRI ≥ 90 | UGR ≤ 10 | cd/m² ≤ 3000 | RG 0 IEC 62471 | 220-240V | X-PERT | X-PERT

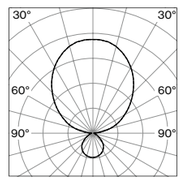
DIRECT / INDIRECT ASYMMETRIC POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
97 W	3000 K	↧1900 / ↥9300 lm	0 5 9 - 2 9 ⊔ 1 ⁘ ◪ Z
	4000 K	↧2030 / ↥9960 lm	

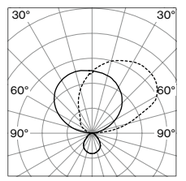
Light distributions



microprismatic direct / indirect soft



microprismatic direct / indirect power



microprismatic direct / indirect asym. power

Business-Quartier Sparkasse
Salzburg, AT – by OM/ARGE
Neutor, Schabelreiter Architektur

OMV Vienna, AT

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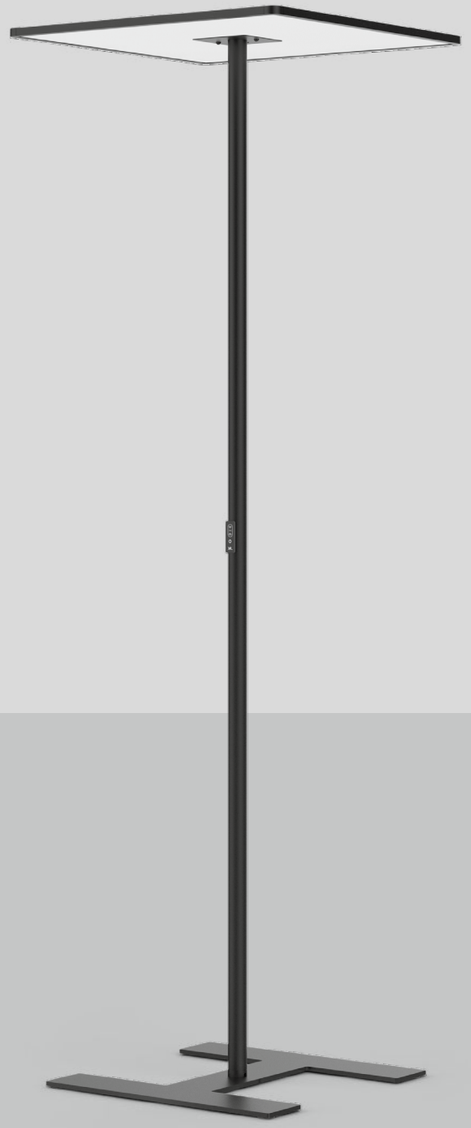


TASK square

free standing

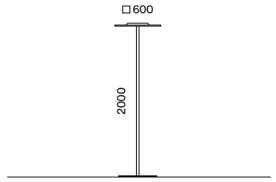
EN Free standing luminaire with square luminaire head made of aluminium and rounded edges; ultra low-profile design (only 15 mm); steel round downpipe; pedestal with recess for table base; surface powder coated; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; switch installed in the downpipe; incl. connection cable (3 m) with safety plug

ES Luminaria de pie con cabezal de luminaria cuadrado de aluminio y cantos redondeados; perfil extra plano (sólo 15 mm); Tubo de acero; pedestal para integrarse como base de mesa; superficie con recubrimiento de pintura en polvo; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; interruptor montado en el tubo; incluye 3 metros de cable de conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 143 lm/W
L90 @ 50 000 h
touch DIM on pole
brightness & presence sensor
microprismatic (UGR ≤ 19)

Type



Colours

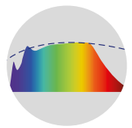
standard xal.com/colours

Light distribution

direct indirect

suitable for fourfold workstation

control by touch DIM on pole



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

touch DIM on pole	5
ESSENTIAL sensor (brightness & presence)	7

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	6
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

Options on request

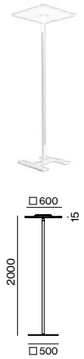
COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

CONTROL

dynamic daylight control

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic



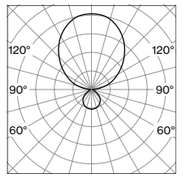
TASK square free standing

CRI ≥90 | UGR ≤19 | cd/m² ≤3000 | RG 0 IEC 62471 | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

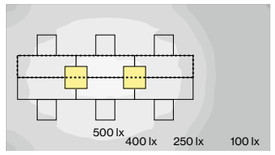
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
92 W	3000 K	↧2280 / ↥10000 lm	0 5 9 - 2 9 3 2 Z
	4000 K	↧2420 / ↥10700 lm	

Light distribution



microprismatic
direct / indirect power

Technical data



TASK square free standing
92 W, 4000 K, direct / indirect power

ROOM VALUES

Room dimensions	7.2 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	4.8 × 0.6 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx

GLARE EVALUATION

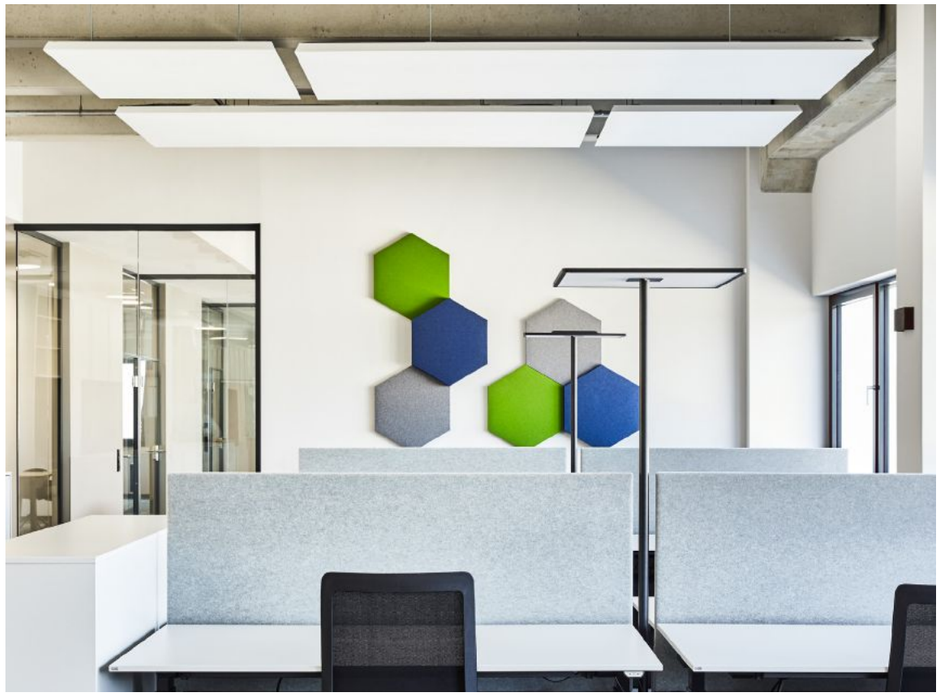
Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

65° ≤ 3000 cd/m²

Office MyHammer Berlin, DE –
by designfunktion Gesellschaft für
moderne Einrichtung Berlin mbH

Fricke Verwaltung Heeslingen, DE –
lighting design by LUV Interior Hamburg



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TASK

table

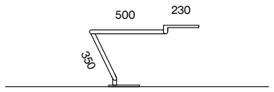
EN Desk lamp in puristic design with high functionality; lamp head 360° rotatable and +/- 15° tiltable; surface powder coated; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; completely homogeneous illumination; energy-efficient LEDs with very good colour rendering; continuously adjustable dimming via optical sensor (10-100 % analog); integrated USB charging socket for charging of a smart device; version with presence detector

ES Lámpara de escritorio de alta funcionalidad; cabezal de lámpara giratorio en 360º y abatible en +/- 15º; superficie con recubrimiento de pintura en polvo; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; atenuación continua sin etapas a través de sensor óptico (regulación analógica del 10 al 100 %); toma de carga USB integrada para la carga de un dispositivo inteligente; versión con detector de presencia

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 92 lm/W
L90 @ 50 000 h
DIM via optical sensor (10 – 100 %)
presence sensor
opal

Type



Colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

opal

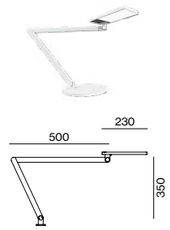
Options on request

COLOUR RENDERING INDEX

CRI ≥ 80

MOUNTING

table clamp, wall fastening



TASK table

	CRI ≥90	RG0 IEC 62471	220-240V	DIM 10-100%	MOVE sensor	USB connector		X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	3000 K	950 lm	059-2811 7 O
	4000 K	1010 lm	

Accessories

BASE PLATE

TYPE	Ø·H (mm)	ORDER CODE
base plate	ø220·13	059-289111

TABLE CLAMP for hole ø68 mm, 10 – 30 mm range

TYPE	Ø·H (mm)	ORDER CODE
table clamp	ø75·77–88	059-289211

360° rotatable,
±15° tiltable

presence sensor

USB charging socket

LUMINOUS FLUX value calculated for CRI ≥90, colour white, cover opal

WKO Vienna, AT –
by Architekturconsult
with lighting design by Hailight
Lichtplanung, Andreas Haidegger

back

TASK

acoustic elements

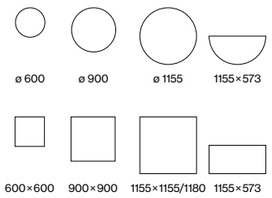
EN Acoustic element made of high-quality, self-supporting, recycled PET felt with sound absorbing properties; different versions: choice of round, square, half round or rectangular design; high-quality visual and tactile surface; direct sound is absorbed by the front-mounted fleece, sound reflected from the ceiling/wall by an additional, rear-mounted fleece; this creates high acoustic performance; choice of surface mounted and pendant versions with cable suspension; tool-less suspension height adjustment of the acoustic element

ES Elemento acústico de fieltro PET reciclado y autoportante de calidad superior con propiedades de absorción del sonido; diferentes variantes: forma opcionalmente redonda, cuadrada, semicircular o rectangular; superficie de gran calidad óptica y táctil; absorción del ruido directo por el vellón delantero, así como absorción del ruido reflejado por el techo/pared mediante un vellón adicional trasero; con ello gran rendimiento acústico; opcionalmente como variante superpuesta o colgada con cable; ajuste de altura sin herramientas en elemento acústico

Quickinfo

PET felt
♻ from recycled material
up to absorption class A
🔥 available as B-s1, d0

Types



Colours

standard

xal.com/acoustic-colours

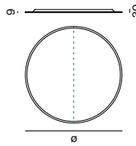
Order options

MOUNTING

surface	1
cable suspension 1500 mm	2

MATERIAL COLOUR

white	W
marble grey	D
felt grey	G
black	L
special colours → p. 992	X

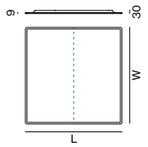


half round version

TASK ACOUSTIC round

ACOUSTIC ELEMENT

TYPE	Ø·H (mm)	ORDER CODE
600 round	600·30	059-579-34
900 round	900·30	059-579-35
1200 round	1155·30	059-579-36
1200 half round	1155·573·30	059-579-46



half square version

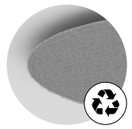
TASK ACOUSTIC square

ACOUSTIC ELEMENT

TYPE	L·W·H (mm)	ORDER CODE
600 square	600·600·30	059-579-14
900 square	900·900·30	059-579-15
1200 square	1155·1155·30	059-579-16
1200 square wide*	1155·1180·30	059-579-66
1200 half square	1155·573·30	059-579-26

*for combination with TASK linear system & TASK S suspended

single installation



recycled material

Meeting room
Visualisation

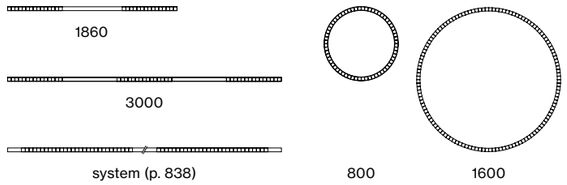
Slim and smart office light

BETO

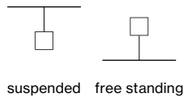
EN Extremely slim and powerful – BETO combines technical excellence with subtle, minimalist design. The BETO product family is available as free-standing luminaires, or a suspended version. All versions have custom reflectors for the best screen-appropriate working light; as a free-standing luminaire, ideally suited for single or double workstations, and in a matching suspended version for double or quadruple workstations. Circle and square luminaires complete the series. Free-standing and suspended versions have an indirect light component for ceiling illumination. The colour rendering value of up to CRI ≥ 98 crafts a pleasant atmosphere. BETO comes in 3000 K or 4000 K light colours, or as a Tunable White option. The luminaire can be fitted with a presence and brightness sensor or a SENSE sensor which measures temperature, air quality, humidity, and noise levels. This allows the lighting to be adapted to the activities in the office while reducing energy costs.

ES Extremadamente esbelta y potente, la familia BETO combina la excelencia tecnológica con un diseño minimalista. BETO está disponible como lámpara de pie y en una variante suspendida. Todos sus modelos cuentan con unos reflectores especiales que proporcionan una luz óptima de trabajo, apta para la visualización de pantallas. Como luminaria de pie, es perfecta para puestos de trabajo individuales o dobles y, en su versión suspendida a juego con la anterior, es idónea para espacios de trabajo destinados a dos o cuatro personas. Todas las versiones ofrecen una proporción de luz indirecta para la iluminación del techo. El índice de reproducción cromática de hasta CRI ≥ 98 crea además una atmósfera ambiental agradable. BETO está disponible en temperaturas de color de 3000 K o 4000 K y con la opción Tunable White. Además, la luminaria puede equiparse con un sensor de presencia y luminosidad o con un sensor SENSE que también mide la temperatura, la calidad y humedad del aire y el nivel de ruido. Esto permite adaptar la iluminación a la actividad desarrollada en la oficina, reduciendo a la vez el coste energético.

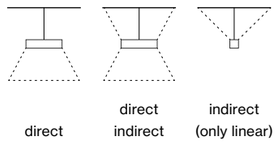
Types



Mountings



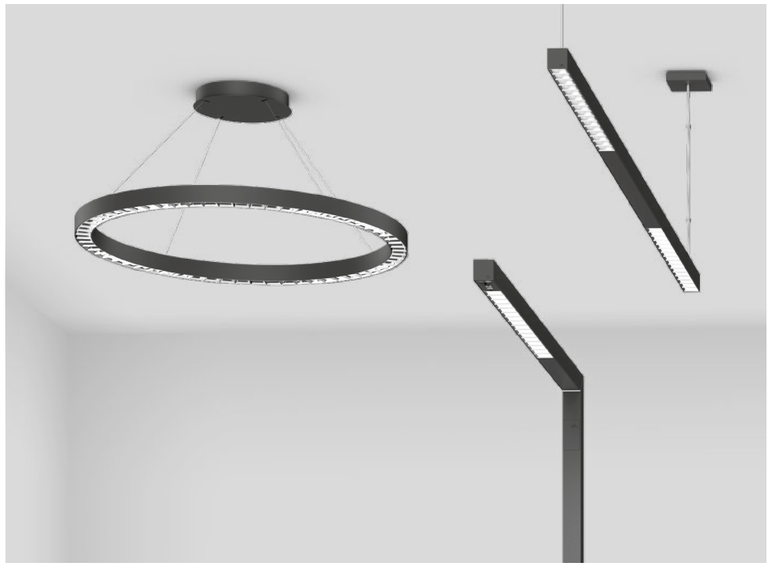
Light distributions

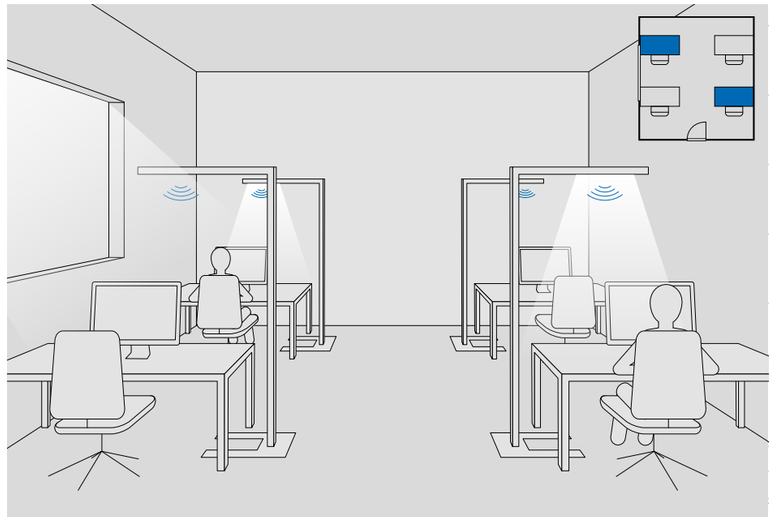


Variety

EN The BETO office luminaire series' elegant appearance combines successful room design with the best workplace lighting. As a free-standing luminaire, as a suspended luminaire, or as a system version – BETO offers a multifunctional lighting solution for a homogeneous appearance.

ES El look elegante de la serie de luminarias para oficina BETO combina un eficaz diseño de interiores con la mejor luz para puestos de trabajo. Ya sea como luminaria de pie o suspendida o como variante modular, BETO es una solución de iluminación polivalente que facilita un aspecto homogéneo.

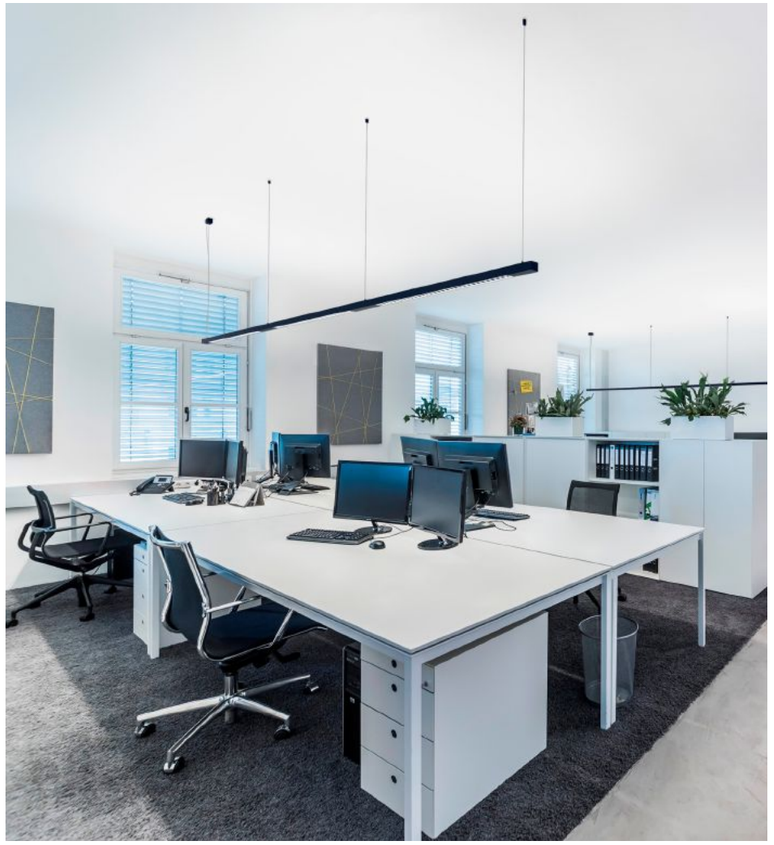




Advanced sensor technology

EN A presence sensor controls the light at the workplace depending on the presence of an individual. In addition, a brightness sensor adjusts the light intensity to the ambient brightness. The SENSE version also measures values such as temperature, air quality, humidity, and noise level. These data provide important insights into the conditions and use of rooms and support energy savings in the long term. The sensor data is transmitted via DALI. The SENSE sensor is IoT ready and enables data transmission via WLAN.

ES Un sensor de presencia regula la iluminación del puesto de trabajo en función de la presencia de una persona, mientras que un sensor de luminosidad adapta la intensidad de la luz a la luminosidad del entorno. La variante SENSE también mide valores como la temperatura, la calidad y humedad del aire y el nivel de ruido. Estos datos no solo ofrecen información importante sobre las condiciones y el uso de las salas, sino también fomentan el ahorro energético de un modo duradero. Los datos de los sensores se transmiten a través de DALI. El sensor SENSE está preparado para IoT y permite la transmisión de datos a través de WLAN.

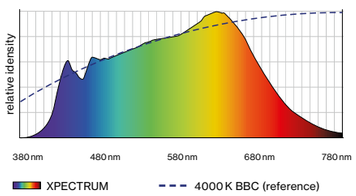


Work-friendly light

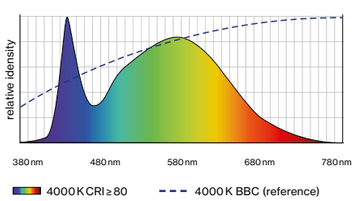
EN As an office luminaire, BETO guarantees illumination that is compliant with workplace standards (up to UGR ≤ 13). Custom glare-free reflectors and the selected use of blind covers direct the light precisely to the work surface and reduce reflections. The direct / indirect version comes with special lens technology that distributes the indirect light component homogeneously and broadly into the room.

ES Como luminaria de oficina, BETO ofrece una iluminación de puestos de trabajo adaptada a la normativa (hasta UGR ≤ 13). Unos reflectores especiales exentos de deslumbramiento y el empleo selectivo de cubiertas opacas dirigen la luz con precisión a la superficie de trabajo y reducen los reflejos. En la variante directa/indirecta, una tecnología de lentes especial distribuye una proporción de luz indirecta con un patrón de irradiación muy amplio de manera homogénea en la sala.

XPECTRUM LED



Commercially available LED 4000 K

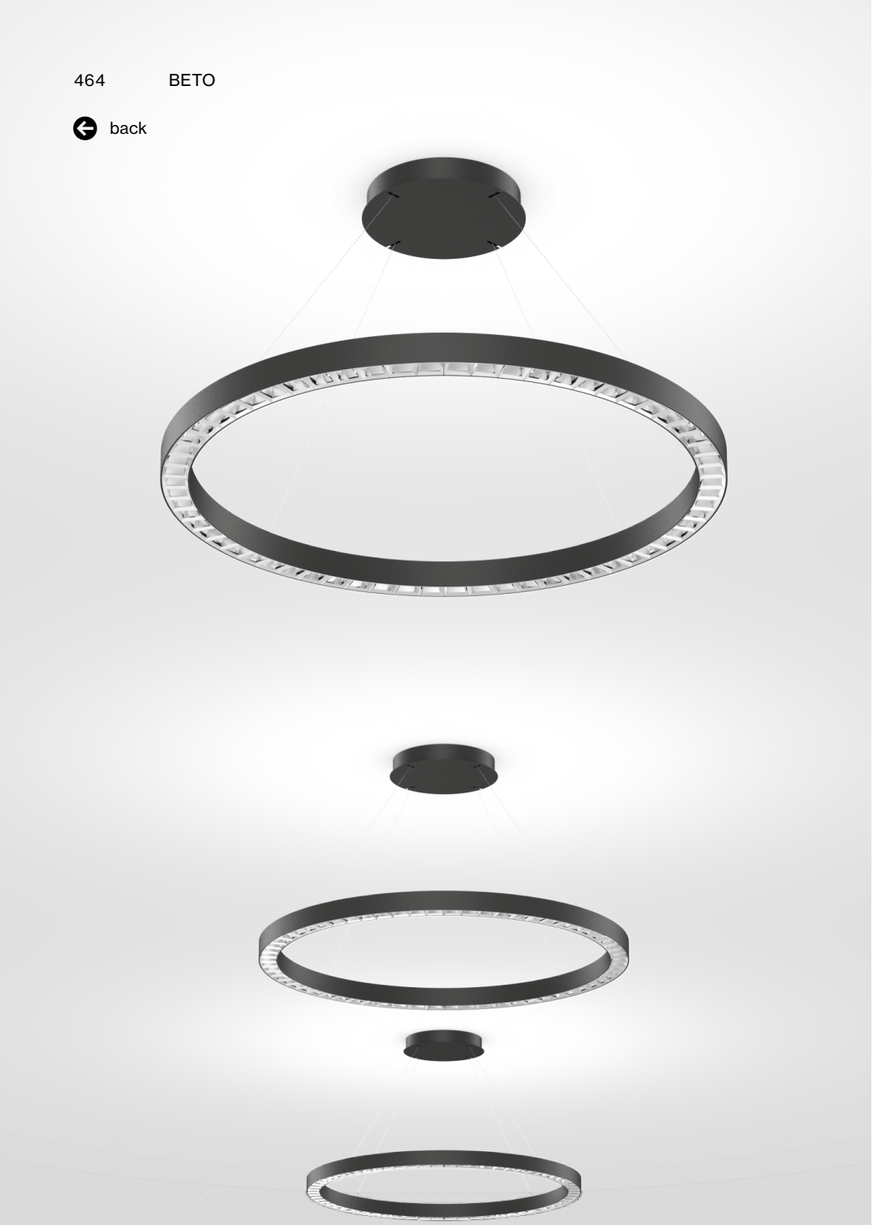


Full-spectrum LED

EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 $R_f = 98$ and $R_g = 101$ further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices $R_f = 98$ y $R_g = 101$ según la norma IES TM-30-15– garantiza una mayor comodidad visual.

back



BETO circle

suspended

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; extremely slim design (only 42 x 42 mm); surface powder coated; pendant fitting with cable suspension; height adjustment without tools; with transparent feeder cable; electronic operating unit installed in the canopy; extruded profile for improved thermal management; high-gloss reflector with faceted design; direct or direct / indirect light distribution; indirect light component with integrated PC boards and high-quality lens system for maximum, homogeneous ceiling illumination; energy-efficient LEDs with very good colour rendering

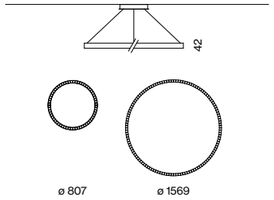
ES Luminaria con forma de anillo fabricada en aluminio con soldadura de alta calidad; forma extremadamente esbelta (solo 42 x 42 mm); superficie con recubrimiento de pintura en polvo; suspendido con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; driver instalado en el baldaquino; perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; característica de emisión directa o directa / indirecta; componente de luz indirecta con pletinas propias y una elegante apariencia de lente para una claridad de techo máxima y homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 145 lm/W
L90 @ 50 000 h
DALI-2
reflector (UGR ≤ 19)

Types

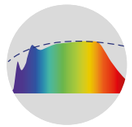
suspended



Colours

Light distributions

DIN EN 12464-1
UGR ≤ 19



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	D

*DALI-2 DT8

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 19)

Options on request

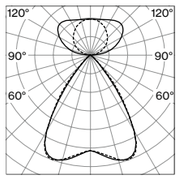
COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

CONTROL

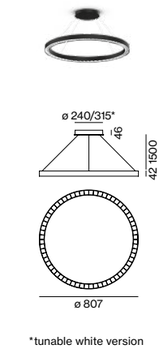
Casambi

Light distribution



reflector (UGR ≤ 19)
direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome



*tunable white version

BETO circle 800 suspended

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

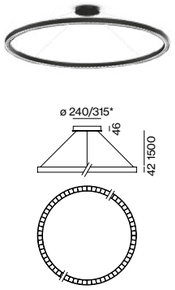
DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
52 W	3000 K	6720 lm	0 7 4 - 7 4 0 3 ⁘ 3 ◪ R
	4000 K	7080 lm	

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
97 W	3000 K	↧ 6690 / ↥ 6400 lm	0 7 4 - 7 4 4 3 ⁘ 3 ◪ R
	4000 K	↧ 7080 / ↥ 6780 lm	



*tunable white and direct / indirect power version

BETO circle 1600 suspended

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
98 W	3000 K	13400 lm	0 7 4 - 7 4 0 4 ⁘ 3 ◪ R
	4000 K	14200 lm	

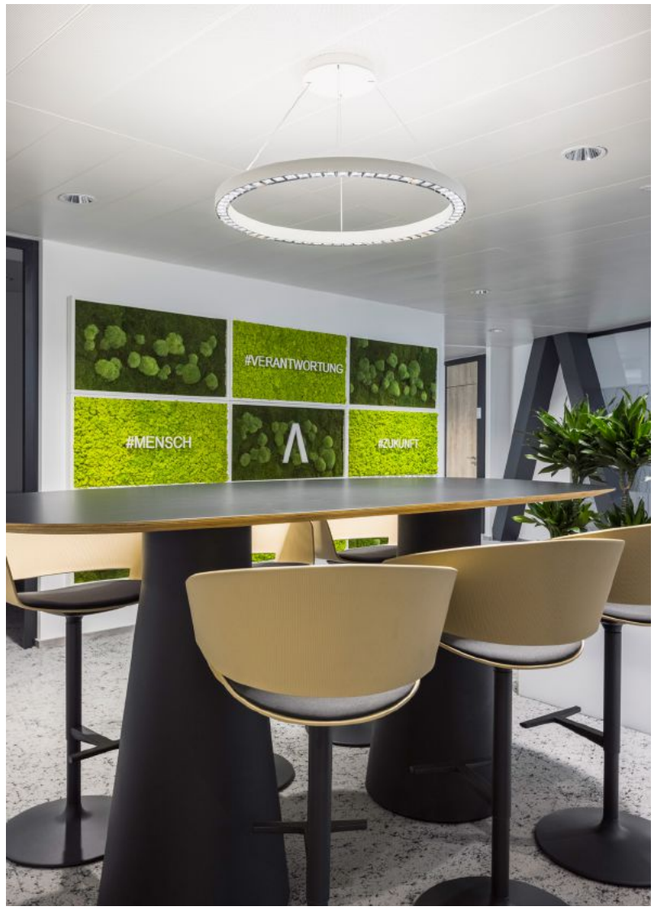
UGR ≤ 19 | cd/m² ≤ 1500 | DALI 2 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
190 W	3000 K	↧ 13400 / ↥ 12800 lm	0 7 4 - 7 4 4 4 ⁘ 3 ◪ R
	4000 K	↧ 14200 / ↥ 13600 lm	

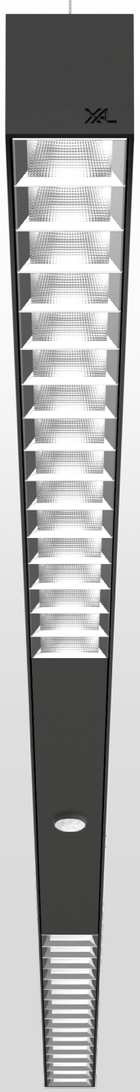
tunable white on request

ALLPLAN Österreich GmbH
Graz, AT



Office OSTA
Harelbeke, BE

back



BETO

suspended

EN Luminaire housing from extruded aluminium profile, angular design; extremely slim design (only 42 x 42 mm); no visible screws; surface powder coated; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; extruded profile for improved thermal management; high-gloss reflector with faceted design; direct / indirect light distribution; indirect light component with integrated PC boards and high-quality lens system for maximum, homogeneous ceiling illumination, optionally separately controllable; energy-efficient LEDs with very good colour rendering

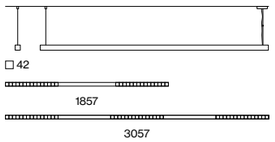
ES Cuerpo de perfil de aluminio con diseño angular; forma extremadamente esbelta (solo 42 x 42 mm); sin tornillos visibles; superficie con recubrimiento de pintura en polvo; suspendido con cable; regulación de la altura sin necesitar herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; característica de emisión directa / indirecta; componente de luz indirecta con pletinas propias y una óptica de lente de alta calidad para una claridad de techo máxima y homogénea, opcionalmente dotada de control independiente; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 16 / 65° ≤ 1500 cd/m²
up to 142 lm/W
L90 @ 50 000 h
DALI-2, DALI sensor
reflector (UGR ≤ 16)

Types

BETO suspended

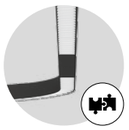


Colours

Light distributions

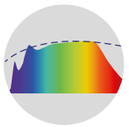
DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19



system
solution (p. 838)

glare-free direct
and 170° indirect
illumination



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

3000 K + TW 2700 – 6500 K*	
4000 K + TW 2700 – 6500 K*	

*DALI-2 DT8 (separately controllable)

CONTROL

DALI-2	3
DALI-2 D/I separately control.*	4
DALI sensor	7

*not for tunable white 1857 mm;
not for indirect power

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 16)

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

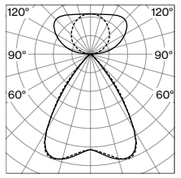
CONTROL

Casambi

TUNABLE WHITE

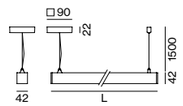
direct light static 3000 K or
4000 K and indirect light
tunable 2700 – 6500 K

Light distribution



reflector (UGR ≤ 16)
direct / indirect power

LUMINOUS FLUX value calculated for
CRI ≥ 80, colour white, reflector chrome

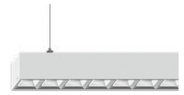


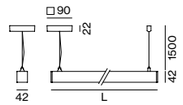
BETO suspended

UGR ≤ 16 | cd/m² ≤1500 | DALI 1 ADDR. | 220–240 V | X-PERT | X-PERT

INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
63 W	3000 K	↑ 7680 lm	3457	0 7 4 - 6 2 N 9 :: ◇ ◪ R
	4000 K	↑ 8120 lm		
60 W	2700 – 6500 K	↑ 7020 lm	3457	0 7 4 - 6 2 N 9 D ◇ ◪ R

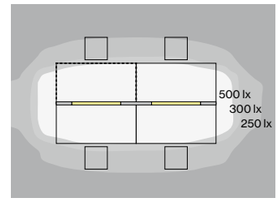




DIRECT / INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
55 W	3000 K	↧ 3350 / ↑ 3580 lm	1857	0 7 4 - 6 2 4 6 :: ◇ ◪ R
	4000 K	↧ 3540 / ↑ 3790 lm		
54 W	3000 K	↧ 3350 lm	1857	0 7 4 - 6 2 D 6 5 4 ◪ R
(2 × DALI)	2700 – 6500 K	↑ 3120 lm		
54 W	4000 K	↧ 3540 lm	1857	0 7 4 - 6 2 D 6 6 4 ◪ R
(2 × DALI)	2700 – 6500 K	↑ 3120 lm		
56 W (2×)	2700 – 6500 K	↧↑ 7030 lm	1857	0 7 4 - 6 2 4 6 D ◇ ◪ R
91 W	3000 K	↧ 5020 / ↑ 7160 lm	3057	0 7 4 - 6 2 4 9 :: ◇ ◪ R
	4000 K	↧ 5310 / ↑ 7580 lm		
90 W	3000 K	↧ 5020 lm	3057	0 7 4 - 6 2 D 9 5 4 ◪ R
(2 × DALI)	2700 – 6500 K	↑ 6240 lm		
90 W	4000 K	↧ 5310 lm	3057	0 7 4 - 6 2 D 9 6 4 ◪ R
(2 × DALI)	2700 – 6500 K	↑ 6240 lm		
93 W (2×)	2700 – 6500 K	↧↑ 12250 lm	3057	0 7 4 - 6 2 4 9 D ◇ ◪ R

Technical data



BETO suspended, 91 W, 4000 K
direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19
65° < 1500 cd/m²	

Creative Lab Barcelona, ES –
lighting design by MMAS Lighting

Granitlab Coworking St. Martin im Mühlkreis, AT –
by GHT-Plan GmbH with lighting design
by GHT-Plan GmbH, AREA C.I. Design GmbH

back

reddot winner 2020

BETO

free standing

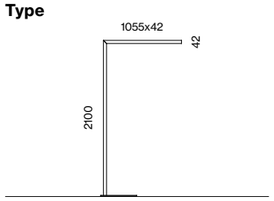
EN Free standing luminaire from extruded aluminium profile in angular design; extremely slim design (only 42 x 42 mm); rectangular downpipe; pedestal with recess for table base; surface powder coated; direct / indirect light distribution; direct light component with high-gloss reflector + faceted design and asymmetric radiation characteristic; indirect light component with integrated PC boards and high-quality lens system for maximum, homogeneous ceiling illumination; energy-efficient LEDs with very good colour rendering; switch installed in the downpipe; presence sensor detection range ø 4.5 m on the floor (variant brightness & presence sensor); incl. connection cable (3 m) with safety plug

ES Lámpara de pie de perfil de aluminio extrusionado en versión angulosa; forma extremadamente esbelta (solo 42 x 42 mm); tubo cuadrado; pedestal para integrarse como base de mesa; superficie con recubrimiento de pintura en polvo; característica de emisión directa / indirecta; proporción de luz directa con reflector de alto brillo + óptica facetada y proyección asimétrica; componente de luz indirecta con pletinas propias y una elegante apariencia de lente para una claridad de techo máxima y homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; interruptor montado en el tubo; zona de detección de sensor de presencia ø 4,5 m en el suelo (variante brightness & presence sensor); incluye 3 metros de cable de conexión

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 127 lm/W
L90 @ 50 000 h
touch DIM
brightness & presence sensor
reflector (UGR ≤ 13)

Type



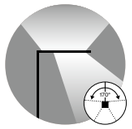
Colours

standard xal.com/colours

Light distributions

direct indir. soft | direct indir. power

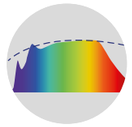
lighting control by touch DIM on pole



asymmetric illumination

SENSE sensor on request

tunable white 2700 – 6500 K

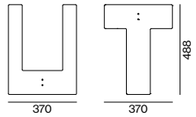


CRI ≥ 98 XPECTRUM

Order options

BASE PLATE

U-shape	4
T-shape	5



COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

touch DIM on pole	1
ESSENTIAL sensor (brightness & presence)	7

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

reflector (UGR ≤ 13)

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

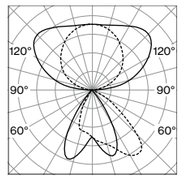
COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

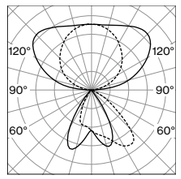
CONTROL

SENSE sensor (brightness, presence, temperature, sound pressure, humidity, CO_2)
cluster network DIM
dynamic daylight control (BPI)
Zigbee 3.0

Light distributions

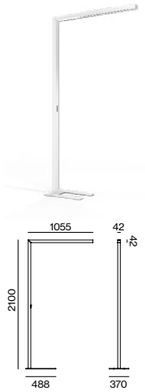


reflector (UGR ≤ 13) direct / indirect



reflector (UGR ≤ 13) direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome



BETO free standing

UGR ≤ 13 | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT SOFT

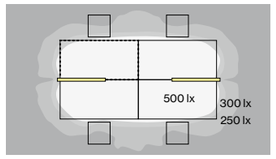
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
59 W	3000 K	↧1850 / ↥5240 lm	0 7 4 - 6 9 4 ⊔ ⁘ ◈ ◪ R
	4000 K	↧1950 / ↥5550 lm	

UGR ≤ 13 | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
76 W	3000 K	↧2090 / ↥6920 lm	0 7 4 - 6 9 5 ⊔ ⁘ ◈ ◪ R
	4000 K	↧2210 / ↥7330 lm	

Technical data



BETO free standing, 76 W, 4000 K direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification	X=4H | Y=8H | S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19

Tribünen der Trabrennbahn
Vienna, AT

Tribünen der Trabrennbahn
Vienna, AT

ALLPAN Österreich GmbH
Graz, AT

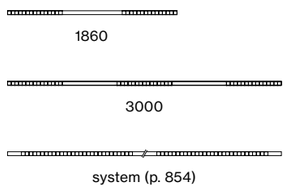
The art of round efficiency

SETA

EN The SETA luminaire was developed specifically for office environments. Its sleek design and powerful illumination are impressive. Special reflectors provide the ideal screen work light. The integrated indirect light component creates homogeneous ceiling illumination; the colour rendering value of up to CRI ≥ 98 ensures a pleasant room and work atmosphere. SETA can be used as a pendant luminaire for double and quadruple workstations, and can optionally be equipped with a presence and brightness sensor. SETA is the optimum for minimalist design, excellent technology, and low energy costs. The luminaire comes in light colours 3000 K, 4000 K, or Tunable White.

ES Creada especialmente para entornos de oficina, la luminaria SETA cautiva por su diseño sencillo, una gama de colores individual y una potente iluminación. Sus reflectores especiales garantizan una luz de trabajo perfecta para el uso de pantallas de visualización. La proporción de luz indirecta integrada ofrece una iluminación homogénea del techo, y el índice de reproducción cromática de hasta IRC ≥ 98 crea una atmósfera interior y de trabajo agradable. SETA puede emplearse como luminaria suspendida en puestos de trabajo de dos o cuatro personas y equiparse opcionalmente con un sensor de presencia y luminosidad. SETA representa el máximo de diseño minimalista, una excelente tecnología y costes energéticos reducidos. La luminaria está disponible en temperaturas de color de 3000 K y 4000 K o como opción Tunable White.

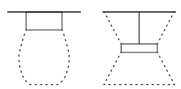
Types



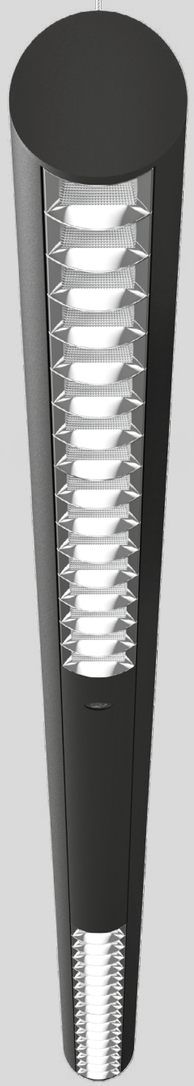
Mounting

suspended

Light distributions



back



SETA

suspended

EN Luminaire housing from extruded aluminium profile, round design; extremely slim design (only ø61mm); no visible screws; surface powder coated; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; extruded profile for improved thermal management; high-gloss reflector with faceted design; direct/indirect light distribution; indirect light component with integrated PC boards and high-quality lens system for maximum, homogeneous ceiling illumination, optionally separately controllable; energy-efficient LEDs with very good colour rendering

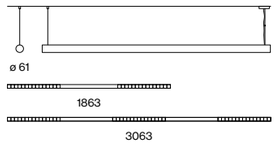
ES Cuerpo de perfil de aluminio con diseño redondo; forma extremadamente esbelta (solo ø61mm); sin tornillos visibles; superficie con recubrimiento de pintura en polvo; suspendido con cable; regulación de la altura sin necesitar herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; característica de emisión directa/indirecta; componente de luz indirecta con pletinas propias y una óptica de lente de alta calidad para una claridad de techo máxima y homogénea, opcionalmente dotada de control independiente; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 16 / 65° ≤ 1500 cd/m²
L 1860 up to ↧ 3540/↥ 3790 lm
L 3000 up to ↧ 5310/↥ 7580 lm
up to 142 lm/W
L90 @ 50 000 h
DALI-2, DALI sensor
reflector (UGR ≤ 16)

Types

SETA suspended



Colours

Light distribution

direct
indirect

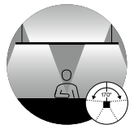
Data Monitoring

DiiA® standards
251, 252, 253

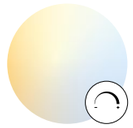
special end cap & reflector design

DIN EN 12464-1
UGR ≤ 19

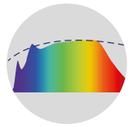
system solution (p. 854)



glare-free direct and 170° indirect illumination



tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

3000 K + TW 2700 – 6500 K*	
4000 K + TW 2700 – 6500 K*	

*DALI-2 DT8 (separately controllable)

CONTROL

DALI-2	3
DALI-2 D/I separately control.*	4
DALI sensor	7

*not for tunable white 1857 mm

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 16)

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

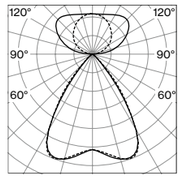
TUNABLE WHITE

direct light static 3000 K
or 4000 K and indirect light
tunable 2700 – 6500 K

MATERIAL COLOUR

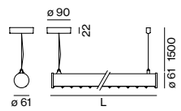
grey

Light distribution



reflector (UGR ≤ 16)
direct/indirect power

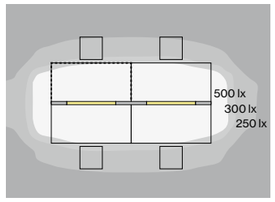
LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome



SETA suspended

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
55 W	3000 K	↧ 3350/↥ 3580 lm	1863	0 7 4 - 5 2 4 6 R
	4000 K	↧ 3540/↥ 3790 lm		
54 W	3000 K	↧ 3350 lm	1863	0 7 4 - 5 2 D 6 5 4 R
(2 × DALI)	2700 – 6500 K	↥ 3120 lm		
54 W	4000 K	↧ 3540 lm	1863	0 7 4 - 5 2 D 6 6 4 R
(2 × DALI)	2700 – 6500 K	↥ 3120 lm		
56 W (2×)	2700 – 6500 K	↧↥ 7030 lm	1863	0 7 4 - 5 2 4 6 D R
91 W	3000 K	↧ 5020/↥ 7160 lm	3063	0 7 4 - 5 2 4 9 R
	4000 K	↧ 5310/↥ 7580 lm		
90 W	3000 K	↧ 5020 lm	3063	0 7 4 - 5 2 D 9 5 4 R
(2 × DALI)	2700 – 6500 K	↥ 6240 lm		
90 W	4000 K	↧ 5310 lm	3063	0 7 4 - 5 2 D 9 6 4 R
(2 × DALI)	2700 – 6500 K	↥ 6240 lm		
93 W (2×)	2700 – 6500 K	↧↥ 12250 lm	3063	0 7 4 - 5 2 4 9 D R

Technical data



SETA suspended, 91 W, 4000 K
direct/indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_o)	> 0.6

GLARE EVALUATION

Table Classification	X=4H | Y=8H | S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19
65°	< 1500 cd/m²

Office
Visualisation

Quality along the line

LENO

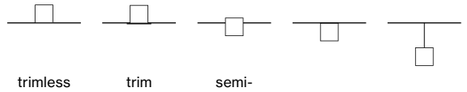
EN The extremely flat LENO profile luminaire is surprisingly versatile. It is available as a recessed, semi-recessed or surface-mounted version for wall or ceiling mounting, in a suspended version. LENO and its microprismatic cover create ideal work light. The version with an opal cover is best suited for homogeneous room lighting. The variant with asymmetrical beam distribution illuminates walls homogeneously. LENO Jut-Out adds further ceiling illumination by employing discreet lateral radiation. By simply fixing the insets magnetically, assembly is quick and flexible.

ES La luminaria de perfiles LENO ultraplana sorprende por su versatilidad. Está disponible en versiones empotradas, semiempotradas o de superficie para el montaje en pared o techo, en versión suspendida y también en una variante especial empotrable para falsos techos de Armstrong, y como luminaria individual o de conjunto. LENO ofrece la mejor luz de trabajo con su difusor microprismático, mientras que la variante con difusor opal es perfecta para una iluminación ambiental uniforme. La versión con proyección asimétrica ilumina las paredes de forma homogénea. LENO Jut-Out proporciona una iluminación adicional del techo gracias a su elegante proyección lateral. El montaje es rápido y flexible, debido a que los elementos se fijan magnéticamente con total facilidad.

Type

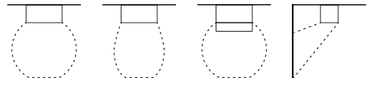
90

Mountings



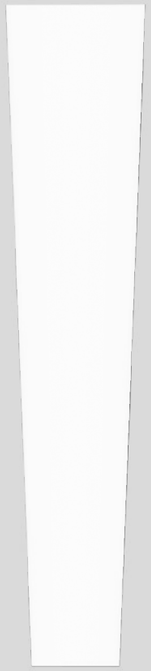
trimless recessed | trim recessed | semi-recessed | surface | suspended

Light distributions



opal | microprismatic (UGR ≤ 19) | jut-out | wallwasher

back



GOOD DESIGN

LENO

recessed with trim / trimless

EN Low profile recessed channel; suitable for trimless installation in 12.5 mm plasterboard ceilings, or with trim; wall or ceiling mounting; powder coated; special edge design with grooves for better adhesion of filler (trimless); easy mounting without need to cut the substructure; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; optional asym. light distribution; energy-eff. LEDs – very good colour rendering; external converter for ceiling insertion

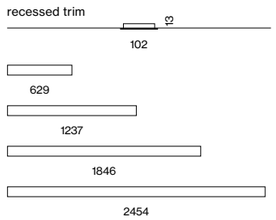
ES Canal para montaje empotrado extremadamente plano; apropiado para montaje sin borde en techos de escayola de 12,5 mm, o con marco; montaje en techo y paredes; recubierto de polvo; formación de bordes especial con aletas para mejor adherencia de la masilla (trimless); montaje sencillo sin cortar la construcción inferior; elemento de luz asegurado contra caídas de perfil de aluminio extrusionado que se puede introducir en el canal sin herramientas por medio de un soporte magnético; fuente de luz insertada en un lateral que es guiada y reflectada a través de unos prismas y reflector de alta calidad; cubierta de PMMA iluminada homogéneamente, satinada (enrasada o sobresaliente) o micro-prismática; opcional distribución asimétrica; LED energét. efic. – excelente reprod. crom.; convertidor externo para inserción en el techo

Quickinfo

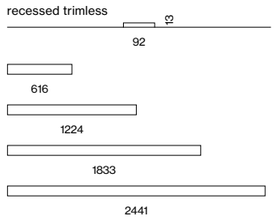
3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out, asymmetric wallwasher

Types

recessed trim



recessed trimless

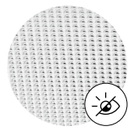


Colour

Light distributions

DiiA® standards 251, 252, 253

system solution (p. 862)



microprismatic UGR ≤ 19

quick installation

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016

LIGHT OPTIC COVER

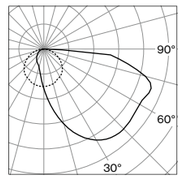
opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J
asymmetric	

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

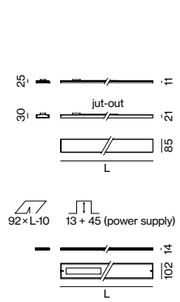
Light distribution



asymmetric

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -5 %, jut-out -4 %

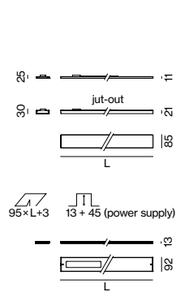
LENO trim



LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10.8 W	3000 K	1230 lm	629	051-8412::37□
	4000 K	1300 lm		
19.1 W	3000 K	2450 lm	1237	051-8414::37□
	4000 K	2600 lm		
28.6 W	3000 K	3680 lm	1846	051-8416::37□
	4000 K	3890 lm		
38 W	3000 K	4900 lm	2454	051-8418::37□
	4000 K	5190 lm		
15.6 W asym.	3000 K	1570 lm	616	051-8412::37A
	4000 K	1660 lm		
31 W asym.	3000 K	3140 lm	1237	051-8414::37A
	4000 K	3330 lm		
47 W asym.	3000 K	4710 lm	1846	051-8416::37A
	4000 K	4990 lm		
62 W asym.	3000 K	6280 lm	2454	051-8418::37A
	4000 K	6650 lm		

LENO trimless



LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10.8 W	3000 K	1230 lm	616	051-8312::37□
	4000 K	1300 lm		
19.1 W	3000 K	2450 lm	1224	051-8314::37□
	4000 K	2600 lm		
28.6 W	3000 K	3680 lm	1833	051-8316::37□
	4000 K	3890 lm		
38 W	3000 K	4900 lm	2441	051-8318::37□
	4000 K	5190 lm		
15.6 W asym.	3000 K	1570 lm	616	051-8312::37A
	4000 K	1660 lm		
31 W asym.	3000 K	3140 lm	1224	051-8314::37A
	4000 K	3330 lm		
47 W asym.	3000 K	4710 lm	1833	051-8316::37A
	4000 K	4990 lm		
62 W asym.	3000 K	6280 lm	2441	051-8318::37A
	4000 K	6650 lm		

Accessories

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

Technical data

see page 497

Vaucluse House Sydney, AU –
by EST Lighting

back

GOOD DESIGN

LENO

semi-recessed

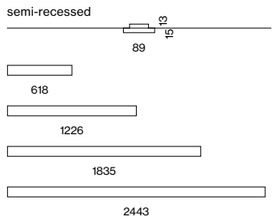
EN Low profile recessed mounted luminaire, 15 mm visible height; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; surface powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering

ES Lámpara empotrable extremadamente plana con altura visible de 15 mm; apropiado para el montaje en la pared y en el techo; apropiada para el montaje en hormigón alisado u hormigón visto, en construcciones de placas de yeso y en paredes o techos enlucidos; superficie con recubrimiento de pintura en polvo; elemento de luz asegurado contra caídas de perfil de aluminio extrusionado que se puede introducir en el canal sin herramientas por medio de un soporte magnético; fuente de luz insertada en un lateral que es guiada y reflectada a través de unos prismas y reflector de alta calidad; cubierta de PMMA iluminada homogéneamente, satinada (enrasada o sobresaliente) o micro-prismática; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out

Types



Colours

Light distributions

direct
direct 3-sided

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

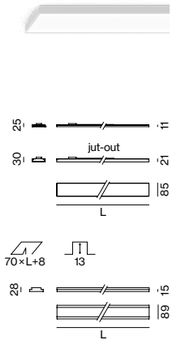
LIGHT OPTIC COVER

opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90



LENO semi-recessed

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP20 IP40 | X-PERT

LUMINAIRE

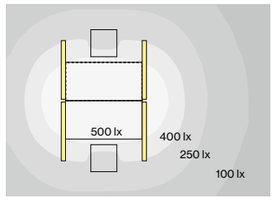
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10.8 W	3000 K	1230 lm	618	051-8512 :: 3
	4000 K	1300 lm		
19.1 W	3000 K	2450 lm	1226	051-8514 :: 3
	4000 K	2600 lm		
28.6 W	3000 K	3680 lm	1835	051-8516 :: 3
	4000 K	3890 lm		
38 W	3000 K	4900 lm	2443	051-8518 :: 3
	4000 K	5190 lm		

Accessories

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

Technical data



LENO semi-recessed, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

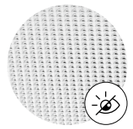
GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

DiiA® standards 251, 252, 253

system solution (p. 870)



microprismatic UGR ≤ 19

quick installation

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -5 %, jut-out -4 %

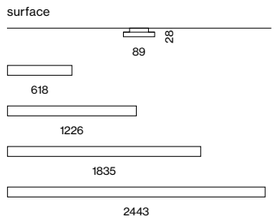
Maunulan työväenopisto
Helsinki, FI –
by KS2 Architects

back

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out

Types



Colours

Light distributions

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

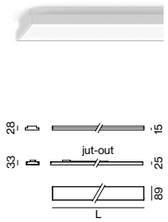
LIGHT OPTIC COVER

opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90



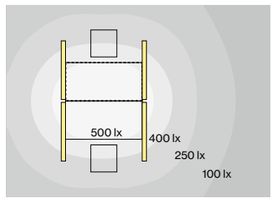
LENO surface

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT

LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10.8 W	3000 K	1230 lm	618	0 5 1 - 9 1 1 2 ⁘ 3 ◪ ◘
	4000 K	1300 lm		
19.1 W	3000 K	2450 lm	1226	0 5 1 - 9 1 1 4 ⁘ 3 ◪ ◘
	4000 K	2600 lm		
28.6 W	3000 K	3680 lm	1835	0 5 1 - 9 1 1 6 ⁘ 3 ◪ ◘
	4000 K	3890 lm		
38 W	3000 K	4900 lm	2443	0 5 1 - 9 1 1 8 ⁘ 3 ◪ ◘
	4000 K	5190 lm		

Technical data



LENO surface, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification	X=4H | Y=8H | S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19

GERMAN DESIGN AWARD WINNER 2019 | GOOD DESIGN

LENO

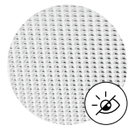
surface

EN Low profile surface mounted luminaire, 28 mm total height; suitable for wall or ceiling mounting; surface powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering

ES Lámpara extraplana de superficie con 28 mm de altura total; para montaje en pared/techo; superficie con recubrimiento de pintura en polvo; elemento de luz anticaídas de perfil de aluminio extruido insertable en el canal sin herramienta con un soporte magnético; luz acoplada lateralmente por cuerpo LGP (Light Guiding Prism) y reflector de alta eficiencia con direcc. hacia abajo; difusor de iluminación homogénea, satinado (a ras o sobresaliente) o microprismático de metacrilato; LEDs de alta eficiencia con muy buena reproducción cromática

DiiA® standards 251, 252, 253

system solution (p. 874)



microprismatic UGR ≤ 19

quick installation

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -5 %, jut-out -4 %

Private Residence
Hausmannstätten, AT –
by DI Thomas Schwed

GERMAN DESIGN AWARD WINNER 2019

GOOD DESIGN

LENO

suspended

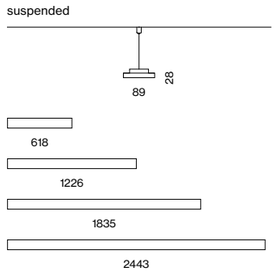
EN Low profile suspended luminaire, 28 mm total height; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; surface powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering

ES Lámpara suspendida extraplana con 28 mm de altura total; suspensión por cable; altura regulable sin herramienta; con cable de alimentación transparente; superficie con recubrimiento de pintura en polvo; elemento de luz anticaídas de perfil de aluminio extruido insertable en el canal sin herramienta con un soporte magnético; luz acoplada lateralmente por cuerpo LGP (Light Guiding Prism) y reflector de alta eficiencia con direcc. hacia abajo; difusor de iluminación homogénea, satinado (a ras o sobresaliente) o microprismático de metacrilato; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out

Types



Colours

Light distributions

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

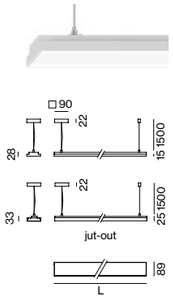
LIGHT OPTIC COVER

opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90



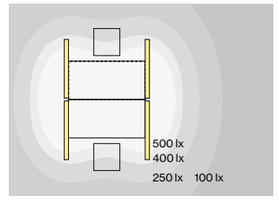
LENO suspended

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT

LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10.8 W	3000 K	1230 lm	618	0 5 1 - 9 2 1 2 :: 3
	4000 K	1300 lm		
19.1 W	3000 K	2450 lm	1226	0 5 1 - 9 2 1 4 :: 3
	4000 K	2600 lm		
28.6 W	3000 K	3680 lm	1835	0 5 1 - 9 2 1 6 :: 3
	4000 K	3890 lm		
38 W	3000 K	4900 lm	2443	0 5 1 - 9 2 1 8 :: 3
	4000 K	5190 lm		

Technical data



LENO suspended, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

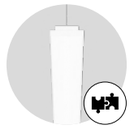
CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_o)	> 0.6

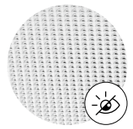
GLARE EVALUATION

Table Classification	X=4H | Y=8H | S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19

DiiA® standards 251, 252, 253



system solution (p. 876)

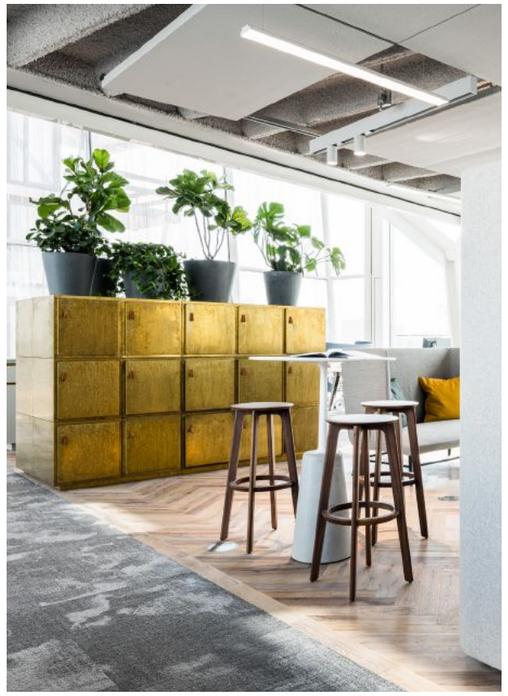


microprismatic UGR ≤ 19

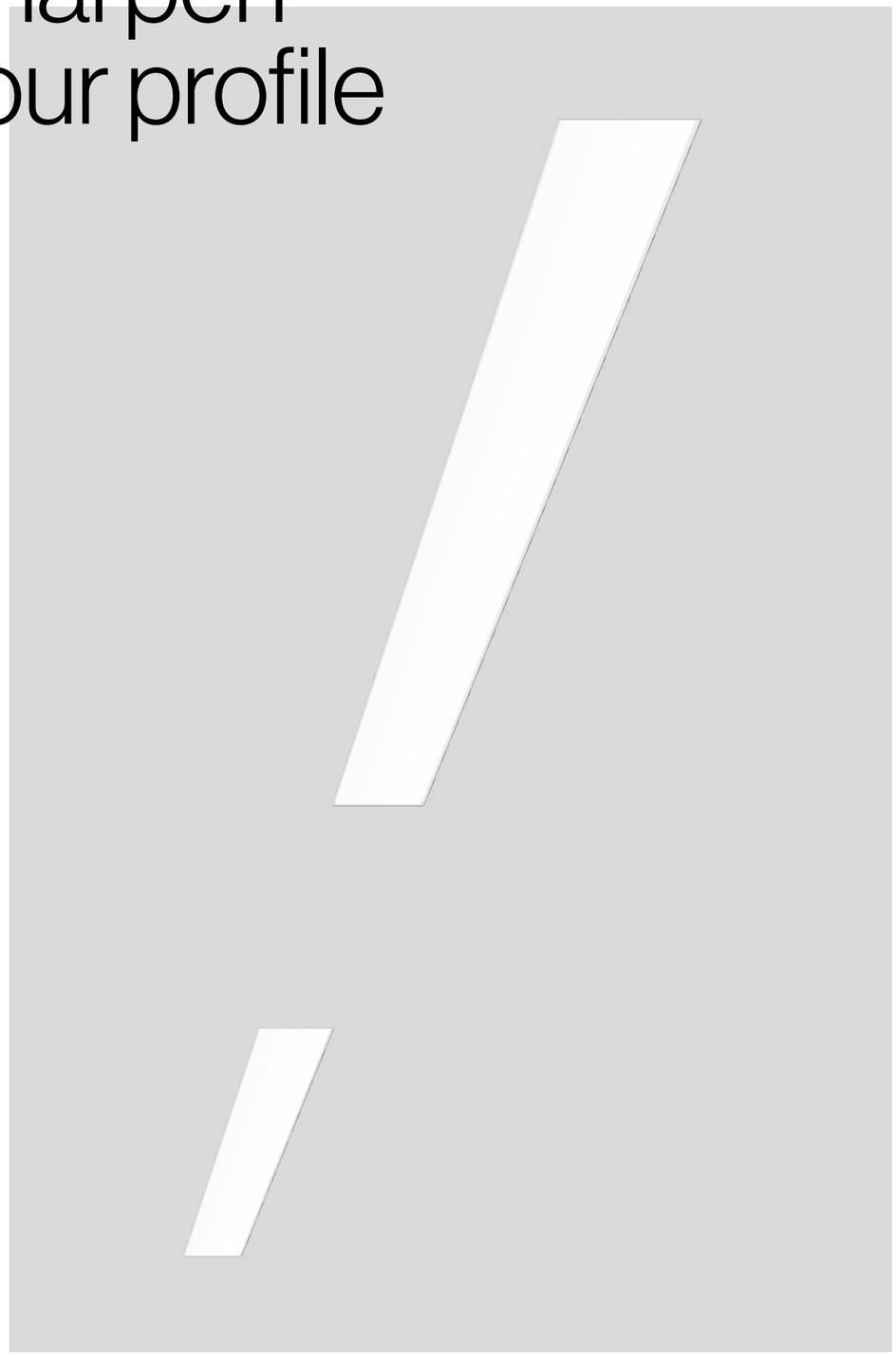
quick installation

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -5 %, jut-out -4 %

Amvest headquarters Amsterdam, NL –
by Firm Architects with lighting design
by Maichel Kusters



Sharpen your profile



MINIMAL

EN Minimalism par excellence: If you like straightforward design, then MINIMAL is perfect for you. Aimed at interiors, the recessed profile luminaire can be seamlessly integrated into all rooms and interiors with style. The single luminaire is trimless, available in different lengths, and varies the desired room effect with the light colours 3000 K, 4000 K, or Tunable White. Homogenous room illumination is achieved with the opal cover. For standard-compliant workplace lighting, the microprismatic cover version is the best choice.

ES El minimalismo en su máxima expresión: si le gustan los diseños rectilíneos, MINIMAL es perfecta para usted. Esta luminaria de perfil empotrable está concebida sobre todo para interiores y es capaz de integrarse perfectamente en cualquier estancia y en cualquier diseño interior. La luminaria individual no tiene bordes, está disponible en distintas longitudes y permite la obtención de diferentes ambientes con temperaturas de color de 3000 K, 4000 K o Tunable White. El difusor opal garantiza un alumbrado homogéneo del interior, y la variante con cubierta microprismática permite obtener una iluminación de puestos de trabajo adaptada a la normativa.

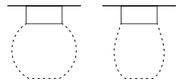
Types

60 100

Mounting

trimless
recessed

Light distributions



opal microprismatic
(UGR ≤ 19)

back

MINIMAL 60

recessed trimless

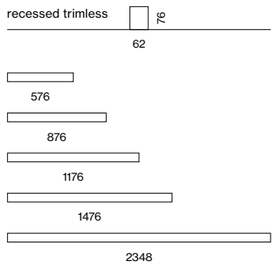
EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; apropiada para montaje sin marco en techos de yeso; con diseño especial en los bordes para facilitar una mejor fijación del producto ; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colour

Light distributions

microp. opal

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G

*UGR ≤ 19 only with mid lumen

Options on request

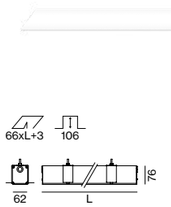
COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8



MINIMAL 60 trimless

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB

MID LUMEN

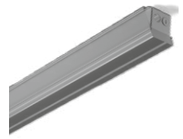
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	902 lm	576	052-32L2 :: 17 □
	4000 K	955 lm		
13 W	3000 K	1350 lm	876	052-32L3 :: 17 □
	4000 K	1430 lm		
15.3 W	3000 K	1800 lm	1176	052-32L4 :: 17 □
	4000 K	1910 lm		
19.2 W	3000 K	2250 lm	1476	052-32L5 :: 17 □
	4000 K	2390 lm		
31 W	3000 K	3610 lm	2348	052-32L8 :: 17 □
	4000 K	3820 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1490 lm	576	052-32M2 :: ⇕ 7 □
	4000 K	1580 lm		
20.6 W	3000 K	2240 lm	876	052-32M3 :: ⇕ 7 □
	4000 K	2370 lm		
27.5 W	3000 K	2980 lm	1176	052-32M4 :: ⇕ 7 □
	4000 K	3160 lm		
34 W	3000 K	3730 lm	1476	052-32M5 :: ⇕ 7 □
	4000 K	3950 lm		
55 W	3000 K	5970 lm	2348	052-32M8 :: ⇕ 7 □
	4000 K	6320 lm		

Mounting accessories

CONCRETE INSTALLATION HOUSING



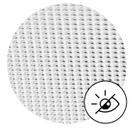
L (mm)	W-H (mm)	ORDER CODE
635	75-88	036-04066
935	75-88	036-04096
1235	75-88	036-04126
1535	75-88	036-04156
2407	75-88	036-04236

no use for wall installation (only on request)

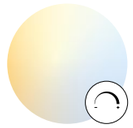
Data Monitoring

DiiA® standards 251, 252, 253

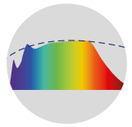
system solution (p. 880)



microprismatic UGR ≤ 19



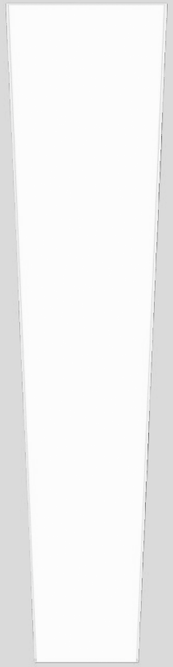
tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

back



MINIMAL 100

recessed trimless

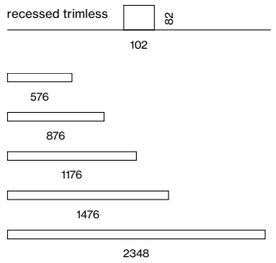
EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; apropiada para montaje sin marco en techos de yeso; con diseño especial en los bordes para facilitar una mejor fijación del producto ; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 7070 lm
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



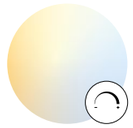
Colour

Light distributions

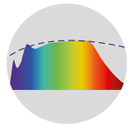
DiiA® standards
251, 252, 253

system
solution (p. 882)

DIN EN 12464-1
UGR ≤ 19



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)	G

Options on request

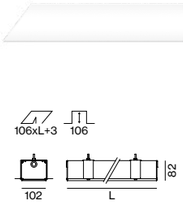
COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8



MINIMAL 100 trimless

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | CB

MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	1010 lm	576	052-33L2 :: 17 □
	4000 K	1070 lm		
13 W	3000 K	1520 lm	876	052-33L3 :: 17 □
	4000 K	1600 lm		
15.3 W	3000 K	2020 lm	1176	052-33L4 :: 17 □
	4000 K	2140 lm		
19.2 W	3000 K	2530 lm	1476	052-33L5 :: 17 □
	4000 K	2670 lm		
31 W	3000 K	4040 lm	2348	052-33L8 :: 17 □
	4000 K	4280 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1670 lm	576	052-33M2 :: ≑ 7 □
	4000 K	1770 lm		
20.6 W	3000 K	2510 lm	876	052-33M3 :: ≑ 7 □
	4000 K	2650 lm		
27.5 W	3000 K	3340 lm	1176	052-33M4 :: ≑ 7 □
	4000 K	3540 lm		
34 W	3000 K	4180 lm	1476	052-33M5 :: ≑ 7 □
	4000 K	4420 lm		
55 W	3000 K	6680 lm	2348	052-33M8 :: ≑ 7 □
	4000 K	7070 lm		

Mounting accessories

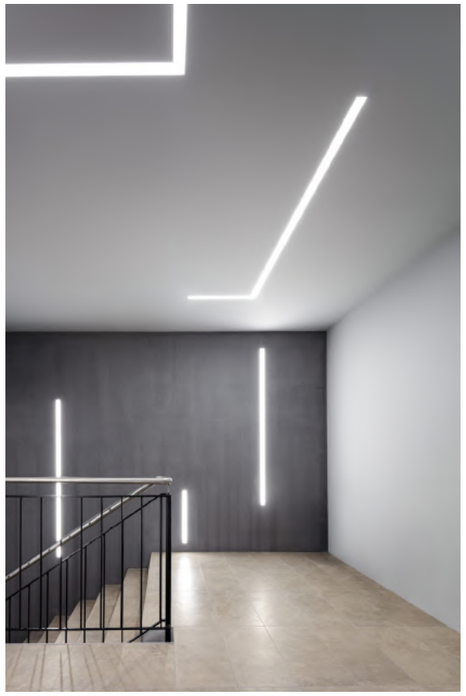
CONCRETE INSTALLATION HOUSING

L (mm)	W·H (mm)	ORDER CODE
635	116·94	036-05066
935	116·94	036-05096
1235	116·94	036-05126
1535	116·94	036-05156
2407	116·94	036-05236

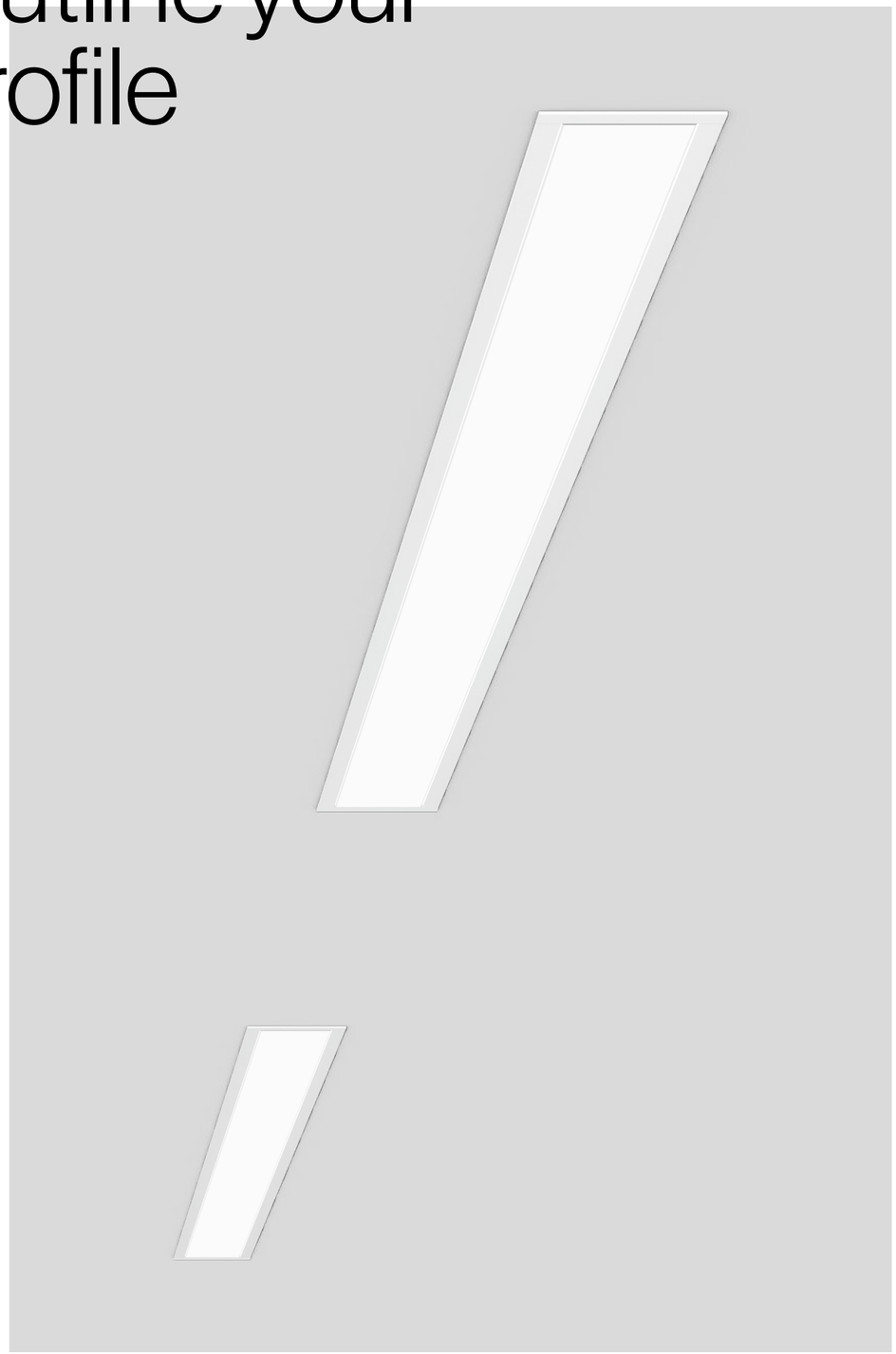
no use for wall installation (only on request)

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10 %

Strozzigasse 10
Vienna, AT –
by Bernd Besenlehner



Outline your profile



FRAME

EN FRAME makes flexible workplace lighting easy. The microprismatic cover ensures optimum glare control and thus standard-compliant illumination of the work areas. With a total of five lengths and three widths, this profile luminaire is versatile. Depending on the colour rendering requirement, the single luminaire is available up to CRI ≥ 98 or in the light colours 3000 K, 4000 K, or Tunable White. FRAME's opal cover version delivers optimal and uniform room illumination.

ES Con FRAME es muy sencillo lograr una iluminación flexible de puestos de trabajo. El difusor microprismático garantiza una óptima prevención del deslumbramiento y, con ello, un alumbrado de zonas de trabajo adaptado a la normativa. Con un total de cinco longitudes y tres anchuras, esta luminaria de perfil es extremadamente versátil. Según los requisitos de reproducción cromática, la luminaria individual está disponible con un índice de hasta IRC ≥ 98 y en temperaturas de color de 3000 K, 4000 K o Tunable White. En la variante con difusor opal, FRAME garantiza una iluminación interior óptima y homogénea.

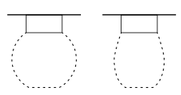
Types

40 60 100

Mounting

with trim
recessed

Light distributions



opal microprismatic
(UGR ≤ 19)

back

FRAME 40

recessed with trim

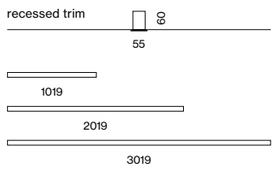
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile can be pre-mounted; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; perfil de luminaria premontable; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 102 lm/W
L90 @ 50 000 h
DALI-2
opal

Types



Colours

Light distribution

opal

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

traffic white RAL 9016	7
white aluminium RAL 9006	G

LIGHT OPTIC COVER

opal high performance

Options on request

COLOUR RENDERING INDEX

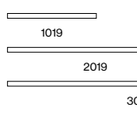
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

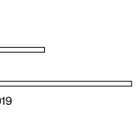
tunable white 2700 – 6500 K
DALI-2 DT8

LIGHT OPTIC COVER

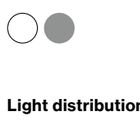
microprismatic



DiiA® standards 251, 252, 253

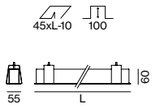


system solution (p. 890)



tunable white 2700 – 6500 K

CRI ≥ 98 XPECTRUM



FRAME 40 trim

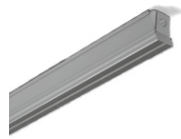
MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15.3 W	3000 K	1480 lm	1019	042-7112 ∷ 3 ◪ H
	4000 K	1560 lm		
30.5 W	3000 K	2950 lm	2019	042-7114 ∷ 3 ◪ H
	4000 K	3120 lm		
46 W	3000 K	4420 lm	3019	042-7116 ∷ 3 ◪ H
	4000 K	4680 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
22.9 W	3000 K	2210 lm	1019	042-7122 ∷ 3 ◪ H
	4000 K	2340 lm		
46 W	3000 K	4420 lm	2019	042-7124 ∷ 3 ◪ H
	4000 K	4680 lm		
69 W	3000 K	6630 lm	3019	042-7126 ∷ 3 ◪ H
	4000 K	7020 lm		

Mounting accessories



CONCRETE INSTALLATION HOUSING

L (mm)	W·H (mm)	ORDER CODE
1038	57·87	042-7195210
2038	57·87	042-7195410
3038	57·87	042-7195610

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

back

FRAME 60

recessed with trim

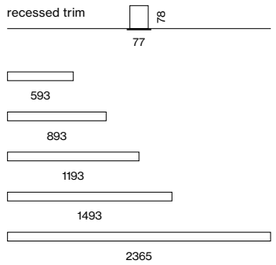
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



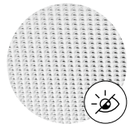
Colours

Light distributions

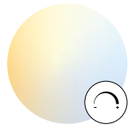
microp. opal

DiiA® standards
251, 252, 253

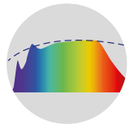
system
solution (p. 892)



microprismatic
UGR ≤ 19



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● white aluminium RAL 9006	G

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G

*UGR ≤ 19 only with mid lumen

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

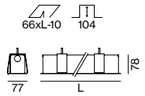
COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8

INDIVIDUAL MATERIAL COLOUR

please contact factory



FRAME 60 trim

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB

MID LUMEN

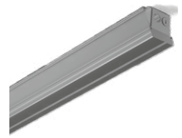
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	902 lm	593	052-47L2 :: 1
	4000 K	955 lm		
13 W	3000 K	1350 lm	893	052-47L3 :: 1
	4000 K	1430 lm		
15.3 W	3000 K	1800 lm	1193	052-47L4 :: 1
	4000 K	1910 lm		
19.2 W	3000 K	2250 lm	1493	052-47L5 :: 1
	4000 K	2390 lm		
31 W	3000 K	3610 lm	2365	052-47L8 :: 1
	4000 K	3820 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1490 lm	593	052-47M2 :: ⇕
	4000 K	1580 lm		
20.6 W	3000 K	2240 lm	893	052-47M3 :: ⇕
	4000 K	2370 lm		
27.5 W	3000 K	2980 lm	1193	052-47M4 :: ⇕
	4000 K	3160 lm		
34 W	3000 K	3730 lm	1493	052-47M5 :: ⇕
	4000 K	3950 lm		
55 W	3000 K	5970 lm	2365	052-47M8 :: ⇕
	4000 K	6320 lm		

Mounting accessories

CONCRETE INSTALLATION HOUSING

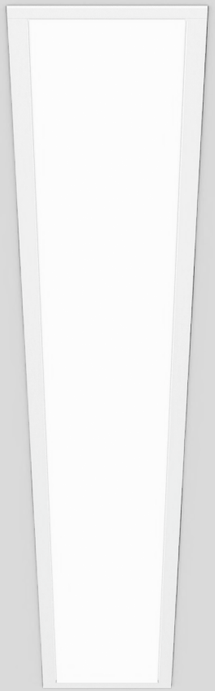


L (mm)	W-H (mm)	ORDER CODE
635	75·88	035-04066
935	75·88	035-04096
1235	75·88	035-04126
1535	75·88	035-04156
2407	75·88	035-04236

no use for wall installation (only on request)

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

back



FRAME 100

recessed with trim

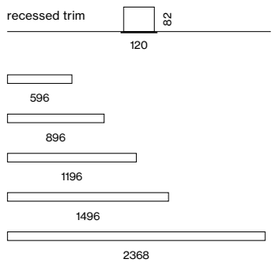
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 7070 lm
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colours

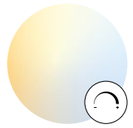
Light distributions

microp. opal

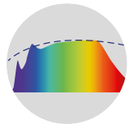
DiiA® standards
251, 252, 253

system solution (p. 898)

DIN EN 12464-1
UGR ≤ 19



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● white aluminium RAL 9006	G

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)	G

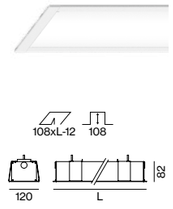
Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8



FRAME 100 trim

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | CB

MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	1010 lm	596	052-43L2 ⁘ 1 ◪ ◘
	4000 K	1070 lm		
13 W	3000 K	1520 lm	896	052-43L3 ⁘ 1 ◪ ◘
	4000 K	1600 lm		
15.3 W	3000 K	2020 lm	1196	052-43L4 ⁘ 1 ◪ ◘
	4000 K	2140 lm		
19.2 W	3000 K	2530 lm	1496	052-43L5 ⁘ 1 ◪ ◘
	4000 K	2670 lm		
31 W	3000 K	4040 lm	2368	052-43L8 ⁘ 1 ◪ ◘
	4000 K	4280 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1670 lm	596	052-43M2 ⁘ ⇕ ◪ ◘
	4000 K	1770 lm		
20.6 W	3000 K	2510 lm	896	052-43M3 ⁘ ⇕ ◪ ◘
	4000 K	2650 lm		
27.5 W	3000 K	3340 lm	1196	052-43M4 ⁘ ⇕ ◪ ◘
	4000 K	3540 lm		
34 W	3000 K	4180 lm	1496	052-43M5 ⁘ ⇕ ◪ ◘
	4000 K	4420 lm		
55 W	3000 K	6680 lm	2368	052-43M8 ⁘ ⇕ ◪ ◘
	4000 K	7070 lm		

Mounting accessories

CONCRETE INSTALLATION HOUSING

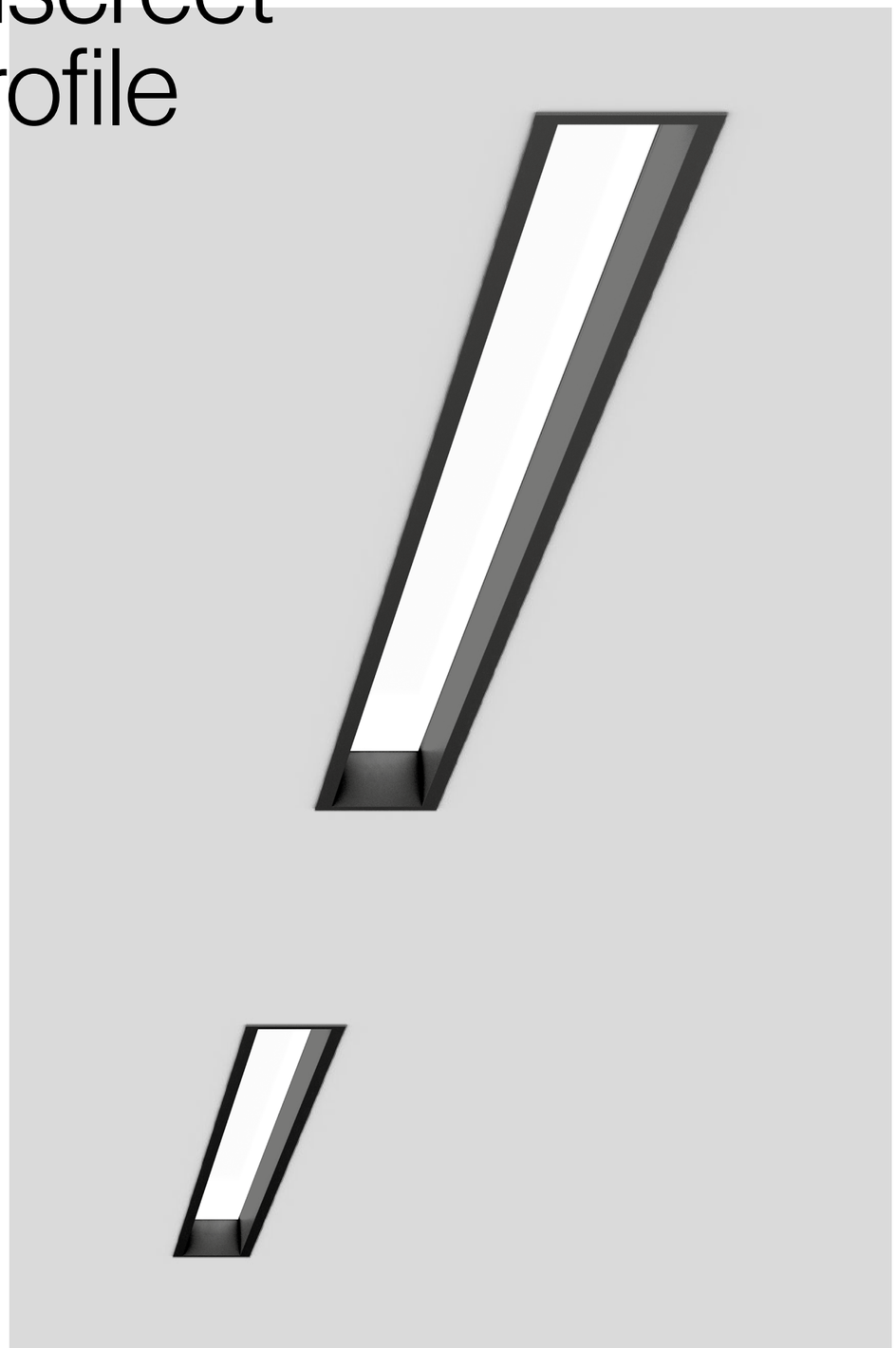
L (mm)	W·H (mm)	ORDER CODE
635	116·94	035-05066
935	116·94	035-05096
1235	116·94	035-05126
1535	116·94	035-05156
2407	116·94	035-05236

no use for wall installation (only on request)

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10 %

Geriatrics Simmering, AT –
by Josef Weichenberger architects +
Partner including lighting design

Discreet profile



CANYON

EN The perfect first impression: The CANYON luminaire and its simplicity create a calm ambience in the entrance area. CANYON also crafts a calm ceiling appearance in recreation rooms, corridors, or at the workplace thanks to the recessed luminaire level. The profile luminaire with a trim can be used universally as it comes in different lengths and with different covers, such as microprismatic or opal. The CANYON single luminaire's colour rendering reaches up to CRI ≥ 90 with a total of three possible light colours: 3000 K, 4000 K, and Tunable White.

ES La perfecta primera impresión: la luminaria CANYON garantiza un ambiente sosegado en la zona de entrada gracias a su simplicidad. En salas de descanso, pasillos o en el propio puesto de trabajo, CANYON también permite obtener un patrón de techo semiempotrado gracias al rebaje del nivel de las luminarias. La luminaria de perfil con borde admite un uso universal debido a sus distintas longitudes y a sus diferentes difusores, tales como el microprismático o la cubierta opal. La reproducción cromática de la luminaria individual CANYON alcanza un índice de hasta IRC ≥ 90 con un total de tres temperaturas de color posibles: 3000 K, 4000 K y Tunable White.

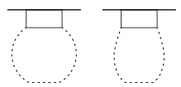
Type

60

Mounting

trim
recessed

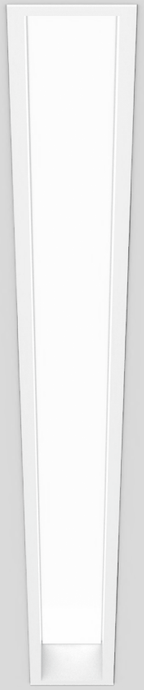
Light distributions



opal

microprismatic
(UGR ≤ 19)

back



CANYON 60

recessed offset with trim

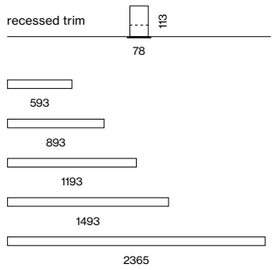
EN Luminaire housing made of extruded aluminium; uncluttered ceiling look through recessed lighting level; recessed luminaire with trim; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; vista de techo con luminaria empotrada; luminaria empotrable con marco; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 105 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic

Types



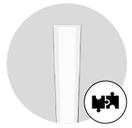
Colours

Light distributions

microp. opal

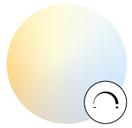
DiiA® standards
251, 252, 253

ball-impact-resistant



system solution (p. 904)

glare control UGR ≤ 19



tunable white 2700 – 6500 K

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

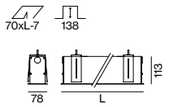
LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90

COLOUR TEMPERATURE
tunable white 2700 – 6500 K
DALI-2 DT8



offset 35 mm

CANYON 60 trim offset

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · CB

MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	760 lm	593	0 5 2 - 5 2 L 2 :: 1
	4000 K	804 lm		
13 W	3000 K	1140 lm	893	0 5 2 - 5 2 L 3 :: 1
	4000 K	1210 lm		
15.3 W	3000 K	1520 lm	1193	0 5 2 - 5 2 L 4 :: 1
	4000 K	1610 lm		
19.2 W	3000 K	1900 lm	1493	0 5 2 - 5 2 L 5 :: 1
	4000 K	2010 lm		
31 W	3000 K	3040 lm	2365	0 5 2 - 5 2 L 8 :: 1
	4000 K	3220 lm		

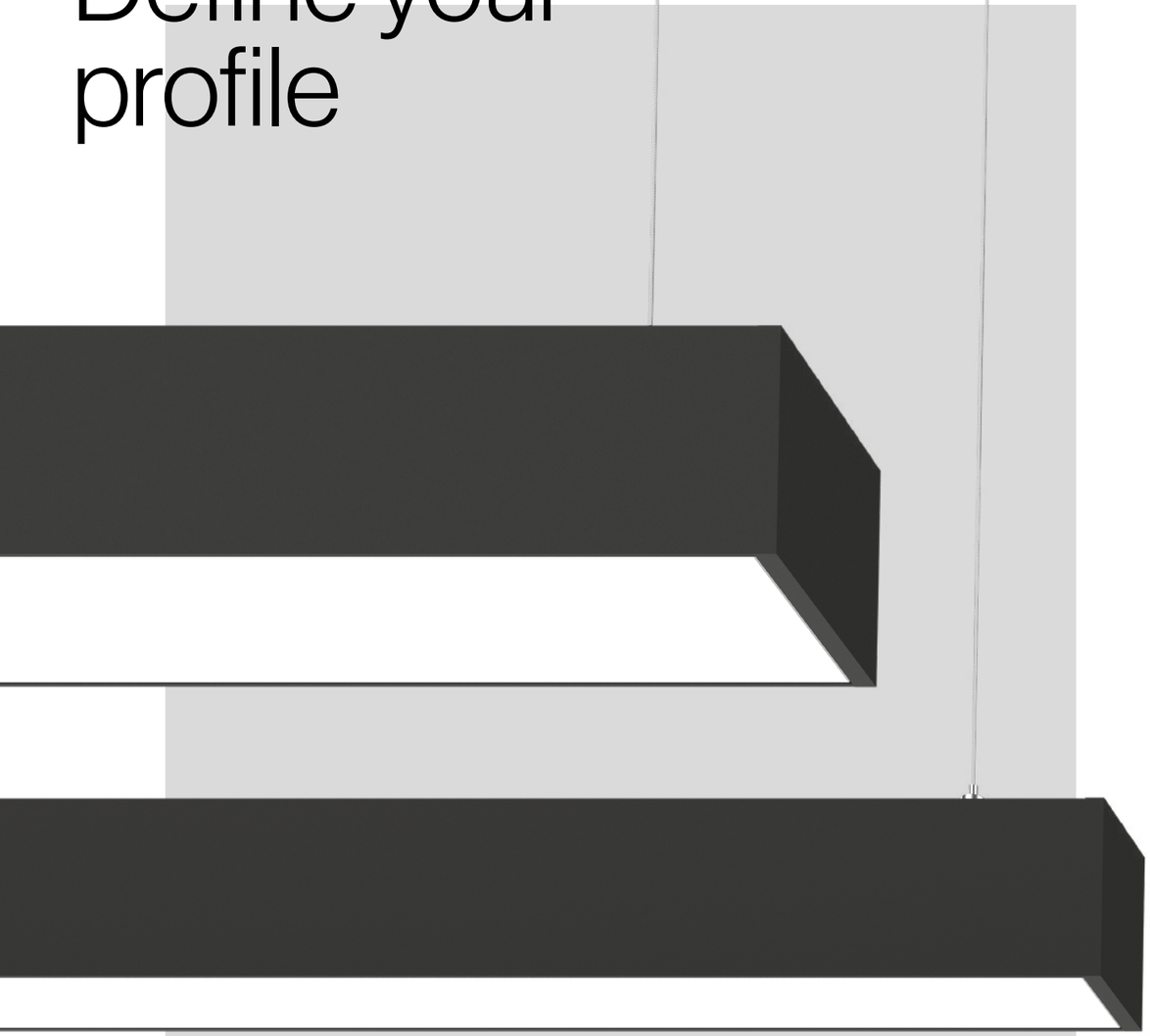
HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1260 lm	593	0 5 2 - 5 2 M 2 ::
	4000 K	1330 lm		
20.6 W	3000 K	1880 lm	893	0 5 2 - 5 2 M 3 ::
	4000 K	2000 lm		
27.5 W	3000 K	2510 lm	1193	0 5 2 - 5 2 M 4 ::
	4000 K	2660 lm		
34 W	3000 K	3140 lm	1493	0 5 2 - 5 2 M 5 ::
	4000 K	3300 lm		
55 W	3000 K	5030 lm	2365	0 5 2 - 5 2 M 8 ::
	4000 K	5320 lm		

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -9 %

Business-Quartier Sparkasse
Salzburg, AT – by OM/ARGE Neutor,
Schabelreiter Architektur

Define your profile



MINO

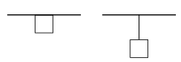
EN The MINO single luminaire's character is multifaceted. It can be mounted on walls and ceilings as a surface-mounted version, but is also available as a suspended version. The variety continues in its optical details; in white, grey, and black, the luminaire can be selected with a colour rendering of up to CRI ≥ 98 XPECTRUM and in the light colours 3000 K, 4000 K, or Tunable White. MINO optionally also comes with a microprismatic cover for ideal work light or with an opal cover for homogeneous room illumination.

ES La luminaria individual MINO se caracteriza por su gran versatilidad. Como variante de superficie puede instalarse en paredes y techos, estando también disponible como modelo de suspensión. Esta variedad continúa en los detalles visuales: la luminaria puede elegirse en los colores blanco, gris y negro con una reproducción cromática de hasta IRC ≥ 98 XPECTRUM y temperaturas de color de 3000 K, 4000 K o Tunable White. Como complemento, MINO puede suministrarse con un difusor microprismático para una perfecta luz de trabajo o con una cubierta opal para una iluminación interior homogénea.

Types

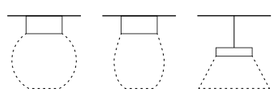
40 60 100

Mountings



surface suspended

Light distributions



opal microprismatic (UGR ≤ 19) direct

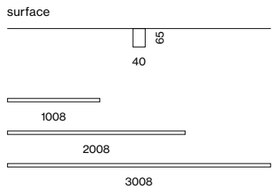
back

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 102 lm/W
L90 @ 50 000 h
DALI-2
opal

Types

surface



Colours

Light distribution

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance

Options on request

COLOUR RENDERING INDEX

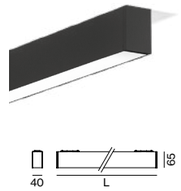
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

LIGHT OPTIC COVER

microprismatic



MINO 40 surface

CRI ≥ 90 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V

MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15.3 W	3000 K	1480 lm	1008	0 4 2 - 1 1 1 2 :: 3 ◪ H
	4000 K	1560 lm		
30.5 W	3000 K	2950 lm	2008	0 4 2 - 1 1 1 4 :: 3 ◪ H
	4000 K	3120 lm		
46 W	3000 K	4420 lm	3008	0 4 2 - 1 1 1 6 :: 3 ◪ H
	4000 K	4680 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
22.9 W	3000 K	2210 lm	1008	0 4 2 - 1 1 2 2 :: 3 ◪ H
	4000 K	2340 lm		
46 W	3000 K	4420 lm	2008	0 4 2 - 1 1 2 4 :: 3 ◪ H
	4000 K	4680 lm		
69 W	3000 K	6630 lm	3008	0 4 2 - 1 1 2 6 :: 3 ◪ H
	4000 K	7020 lm		

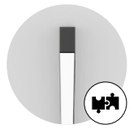
MINO 40

surface

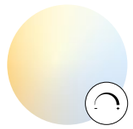
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile can be pre-mounted; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; perfil de luminaria premontable; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

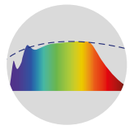
DiiA® standards
251, 252, 253



system
solution (p. 912)



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

LUMINOUS FLUX value calculated for
CRI ≥ 90, colour white, cover opal

back

MINO 40

suspended

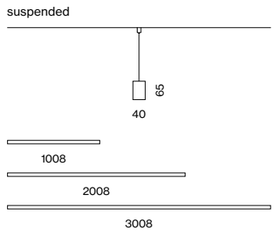
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile can be pre-mounted; remaining luminaire components mounted without tools; pendant fitting with cable suspension; height adjustment without tools; incl. transparent feed; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; perfil de luminaria premontable; resto de componentes luminosos montables sin herramienta; suspendido con cable; altura regulable sin herramientas; incluido cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 102 lm/W
L90 @ 50 000 h
DALI-2
opal

Types



Colours

Light distribution

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance

Options on request

COLOUR RENDERING INDEX

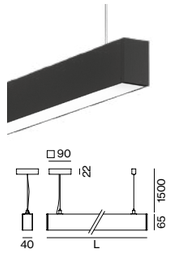
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

LIGHT OPTIC COVER

microprismatic



MINO 40 suspended

CRI ≥ 90 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V

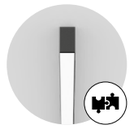
MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15.3 W	3000 K	1480 lm	1008	0 4 2 - 1 2 1 2 :: 3 ◪ H
	4000 K	1560 lm		
30.5 W	3000 K	2950 lm	2008	0 4 2 - 1 2 1 4 :: 3 ◪ H
	4000 K	3120 lm		
46 W	3000 K	4420 lm	3008	0 4 2 - 1 2 1 6 :: 3 ◪ H
	4000 K	4680 lm		

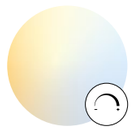
HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
22.9 W	3000 K	2210 lm	1008	0 4 2 - 1 2 2 2 :: 3 ◪ H
	4000 K	2340 lm		
46 W	3000 K	4420 lm	2008	0 4 2 - 1 2 2 4 :: 3 ◪ H
	4000 K	4680 lm		
69 W	3000 K	6630 lm	3008	0 4 2 - 1 2 2 6 :: 3 ◪ H
	4000 K	7030 lm		

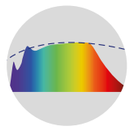
DiiA® standards
251, 252, 253



system
solution (p. 912)



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

Sparkasse Lienz, AT –
by DI Matthias Viehhauser

MME
Zug, CH –
by Büronauten AG

Sparkasse, Bank
Nuremberg, DE –
by baum-kappler architekten

back

MINO 60

surface

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

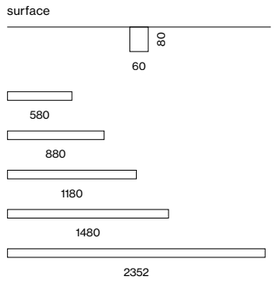
ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types

surface



Colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G

*UGR ≤ 19 only with mid lumen

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

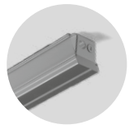
COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

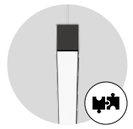
INDIVIDUAL MATERIAL COLOUR

MINO 60 ceiling system

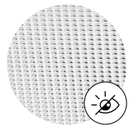
DiiA® standards 251, 252, 253



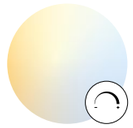
concrete install. housing (p. 946)



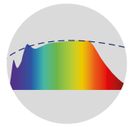
system solution (p. 914)



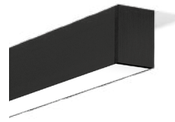
microprismatic UGR ≤ 19



tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM



MINO 60 surface

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB

MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	902 lm	580	0 4 6 - 4 1 L 2 :: 1
	4000 K	955 lm		
13 W	3000 K	1350 lm	880	0 4 6 - 4 1 L 3 :: 1
	4000 K	1430 lm		
15.3 W	3000 K	1800 lm	1180	0 4 6 - 4 1 L 4 :: 1
	4000 K	1910 lm		
19.2 W	3000 K	2250 lm	1480	0 4 6 - 4 1 L 5 :: 1
	4000 K	2390 lm		
31 W	3000 K	3610 lm	2352	0 4 6 - 4 1 L 8 :: 1
	4000 K	3820 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1490 lm	580	0 4 6 - 4 1 M 2 ::
	4000 K	1580 lm		
20.6 W	3000 K	2240 lm	880	0 4 6 - 4 1 M 3 ::
	4000 K	2370 lm		
27.5 W	3000 K	2980 lm	1180	0 4 6 - 4 1 M 4 ::
	4000 K	3160 lm		
34 W	3000 K	3730 lm	1480	0 4 6 - 4 1 M 5 ::
	4000 K	3950 lm		
55 W	3000 K	5970 lm	2352	0 4 6 - 4 1 M 8 ::
	4000 K	6320 lm		

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -13 %, microprism. G -15 %

Aros Forsikring-Mutual Insurance
Viby J, DK – lighting design by
anker & co

back

MINO 60

suspended

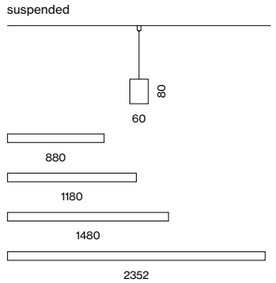
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; suspendido con cable; regulación de la altura sin necesitar herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

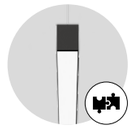
Types



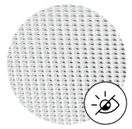
Colours

Light distribution

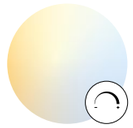
DiiA® standards
251, 252, 253



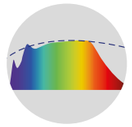
system
solution (p. 914)



microprismatic
UGR ≤ 19



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G

*UGR ≤ 19 only with mid lumen

Options on request

COLOUR RENDERING INDEX

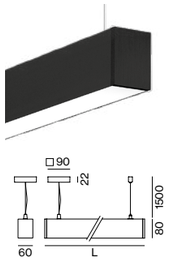
CRI ≥ 90
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

INDIVIDUAL MATERIAL COLOUR

MINO 60 suspended system



MINO 60 suspended

UGR ≤ 19 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB

MID LUMEN

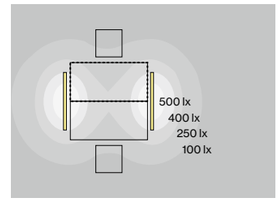
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000 K	1350 lm	880	0 4 6 - 4 2 L 3 :: 1
	4000 K	1430 lm		
15.3 W	3000 K	1800 lm	1180	0 4 6 - 4 2 L 4 :: 1
	4000 K	1910 lm		
19.2 W	3000 K	2250 lm	1480	0 4 6 - 4 2 L 5 :: 1
	4000 K	2390 lm		
31 W	3000 K	3610 lm	2352	0 4 6 - 4 2 L 8 :: 1
	4000 K	3820 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20.6 W	3000 K	2240 lm	880	0 4 6 - 4 2 M 3 ::
	4000 K	2370 lm		
27.5 W	3000 K	2980 lm	1180	0 4 6 - 4 2 M 4 ::
	4000 K	3160 lm		
34 W	3000 K	3730 lm	1480	0 4 6 - 4 2 M 5 ::
	4000 K	3950 lm		
55 W	3000 K	5970 lm	2352	0 4 6 - 4 2 M 8 ::
	4000 K	6320 lm		

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -13 %, microprism. G -15 %

Technical data



MINO 60 suspended, 15.3 W, 4000 K, direct

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

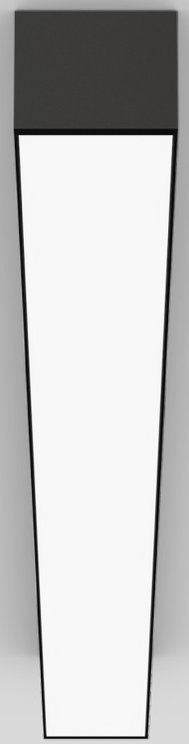
Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification	X=4H | Y=8H | S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19

HeidelbergCement AG Heidelberg, DE –
by Albert Speer + Partner Architekten with
lighting design by Hailight Lichtplanung,
Andreas Haidegger

back



MINO 100

surface

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

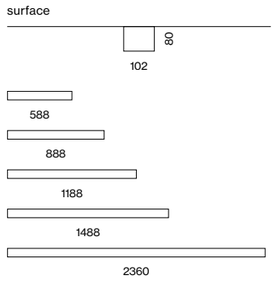
ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 7070 lm
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types

surface

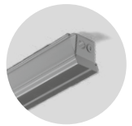


Colours

Light distribution

direct

DiiA® standards
251, 252, 253

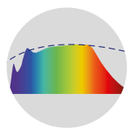


concrete install. housing (p. 946)

system solution (p. 928)

DIN EN 12464-1
UGR ≤ 19

tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)	G

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

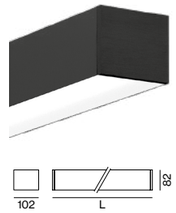
COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8

INDIVIDUAL MATERIAL COLOUR

MINO 100 ceiling system



MINO 100 surface

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | CB

MID LUMEN

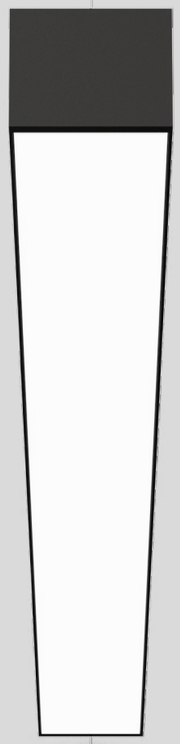
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.7 W	3000 K	1010 lm	588	0 5 6 - 4 1 L 2 :: 1
	4000 K	1070 lm		
13 W	3000 K	1520 lm	888	0 5 6 - 4 1 L 3 :: 1
	4000 K	1600 lm		
15.3 W	3000 K	2020 lm	1188	0 5 6 - 4 1 L 4 :: 1
	4000 K	2140 lm		
19.2 W	3000 K	2530 lm	1488	0 5 6 - 4 1 L 5 :: 1
	4000 K	2670 lm		
31 W	3000 K	4040 lm	2360	0 5 6 - 4 1 L 8 :: 1
	4000 K	4280 lm		

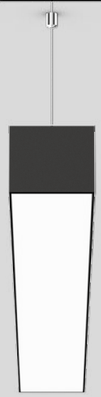
HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1670 lm	588	0 5 6 - 4 1 M 2 ::
	4000 K	1770 lm		
20.6 W	3000 K	2510 lm	888	0 5 6 - 4 1 M 3 ::
	4000 K	2650 lm		
27.5 W	3000 K	3340 lm	1188	0 5 6 - 4 1 M 4 ::
	4000 K	3540 lm		
34 W	3000 K	4180 lm	1488	0 5 6 - 4 1 M 5 ::
	4000 K	4420 lm		
55 W	3000 K	6680 lm	2360	0 5 6 - 4 1 M 8 ::
	4000 K	7070 lm		

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10 %

back





MINO 100

suspended

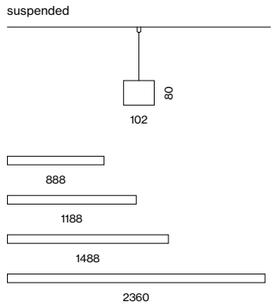
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; suspendido con cable; regulación de la altura sin necesitar herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types

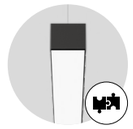


Colours

Light distribution

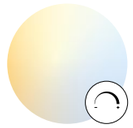
direct

DiiA® standards
251, 252, 253

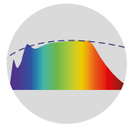


system
solution (p. 928)

DIN EN 12464-1
UGR ≤ 19



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)	G

Options on request

COLOUR RENDERING INDEX

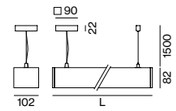
CRI ≥ 90
CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K
DALI-2 DT8

INDIVIDUAL MATERIAL COLOUR

MINO 100 suspended system



MINO 100 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | CB

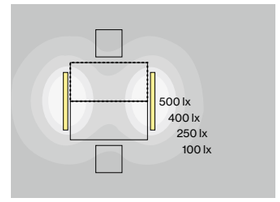
MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000 K	1520 lm	888	0 5 6 - 4 2 L 3 :: 1
	4000 K	1600 lm		
15.3 W	3000 K	2020 lm	1188	0 5 6 - 4 2 L 4 :: 1
	4000 K	2140 lm		
19.2 W	3000 K	2530 lm	1488	0 5 6 - 4 2 L 5 :: 1
	4000 K	2670 lm		
31 W	3000 K	4040 lm	2360	0 5 6 - 4 2 L 8 :: 1
	4000 K	4280 lm		

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20.6 W	3000 K	2510 lm	888	0 5 6 - 4 2 M 3 ::
	4000 K	2650 lm		
27.5 W	3000 K	3340 lm	1188	0 5 6 - 4 2 M 4 ::
	4000 K	3540 lm		
34 W	3000 K	4180 lm	1488	0 5 6 - 4 2 M 5 ::
	4000 K	4420 lm		
55 W	3000 K	6680 lm	2360	0 5 6 - 4 2 M 8 ::
	4000 K	7070 lm		

Technical data



MINO 100 suspended, 15.3 W, 4000 K, direct

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

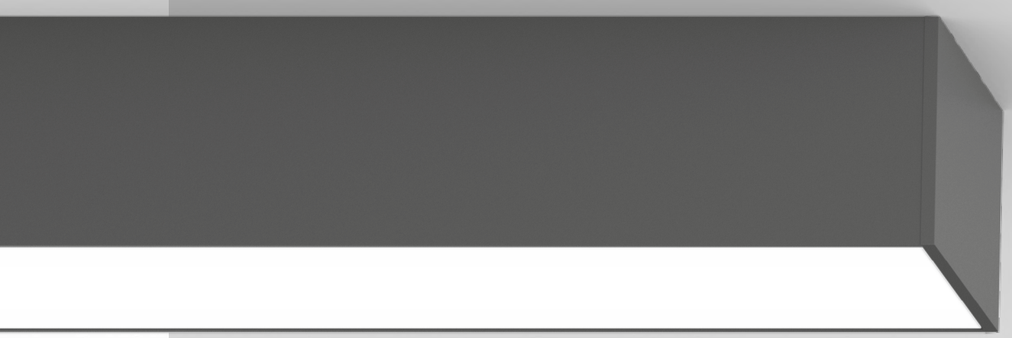
Surface dimensions	1.6 × 0.8 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H
UGR transversal ≤ 19
UGR axial ≤ 19
≥ 65° ≤ 3000 cd/m²

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10 %

Outside with profile



BASO IP54

EN BASO IP54 is a powerful profile luminaire that has been specially adapted to demanding environmental conditions: from public outdoor areas to wet rooms. It has increased dust and insect protection (IP54). BASO IP54 is available as a single luminaire or as a system variant. It is easy to install and suitable for recessed or surface fitting as well as for wall or ceiling mounting. An opal cover delivers homogeneous basic illumination. The luminaire has a colour rendering of up to CRI ≥ 98 XPECTRUM and can be selected with a dark grey or white housing and in two light colours (3000 K and 4000 K).

ES BASO IP54 es una potente luminaria de perfil que se ha adaptado especialmente a las exigentes condiciones ambientales: pudiendo utilizarse en zonas exteriores públicas o salas con alto grado de humedad entre otras muchas posibilidades. Además, está dotada de una elevada protección contra polvo e insectos (IP54). BASO IP54 está disponible como luminaria individual y como sistema, es fácil de montar y es apta tanto para la colocación empotrada o en superficie como para el montaje en pared o techo. Su difusor opal garantiza un alumbrado general homogéneo. Además, la luminaria ofrece una excelente reproducción cromática con de hasta CRI ≥ 98 XPECTRUM y puede elegirse en dos temperaturas de color (3000 K y 4000 K) y con carcasa blanca o en color gris oscuro.

Type

60

Mountings

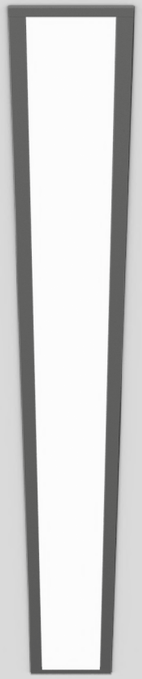
trim
recessed

surface

Light distribution

opal

back



BASO 60 IP54

recessed with trim

EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; suitable for ceiling thickness of 8-20 mm; surface powder coated; suitable for wall or ceiling mounting; luminaire profile (end caps come pre-assembled) can be pre-mounted; remaining luminaire components mounted without tools; closed light insert made of PMMA, consisting of converter unit and circuit board unit; light inset with screwed-on, thus maintenance-friendly, transparent end cap in PMMA; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; IP67 socket connector system for easy and sealed electrical connection

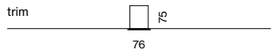
ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; apropiada para grosores de techo entre 8-20 mm; superficie con recubrimiento de pintura en polvo; apropiada para montaje en techo y paredes; perfil de luminaria (tapa terminal premontada de fábrica) premontable; resto de componentes luminosos montables sin herramienta; elemento de luz cerrado de PMMA, compuesto de convertidor y pletina; elemento de luz con tapa terminal transparente de metacrilato atornillada y de fácil mantenimiento; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; conector con casquillo IP67 para realizar una conexión eléctrica estanca

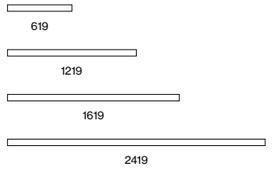
Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
DALI-2
opal, IP54

Types

trim



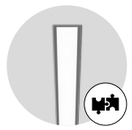


Colours

Light distribution

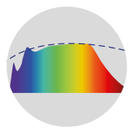
direct

quick installation



system solution (p. 936)

dust & splash water protection (IP54)



CRI ≥ 98 XPECTRUM

Order options

IP RATING
IP54

COLOUR TEMPERATURE
3000 K 5
4000 K 6

CONTROL
DALI-2

MATERIAL COLOUR
○ traffic white RAL 9016 7
● umbra grey RAL 7022 D

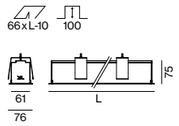
LIGHT OPTIC COVER
opal high performance

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90
CRI ≥ 98 XPECTRUM

BASO 60 trim

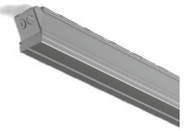
RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP54 | X-PERT | X-PERT



IP54 LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11.2 W	3000 K	1320 lm	619	845-35223 H
	4000 K	1400 lm		
22.4 W	3000 K	2640 lm	1219	845-35243 H
	4000 K	2790 lm		
29.9 W	3000 K	3530 lm	1619	845-35253 H
	4000 K	3720 lm		
45 W	3000 K	5290 lm	2419	845-35283 H
	4000 K	5590 lm		

Mounting accessories



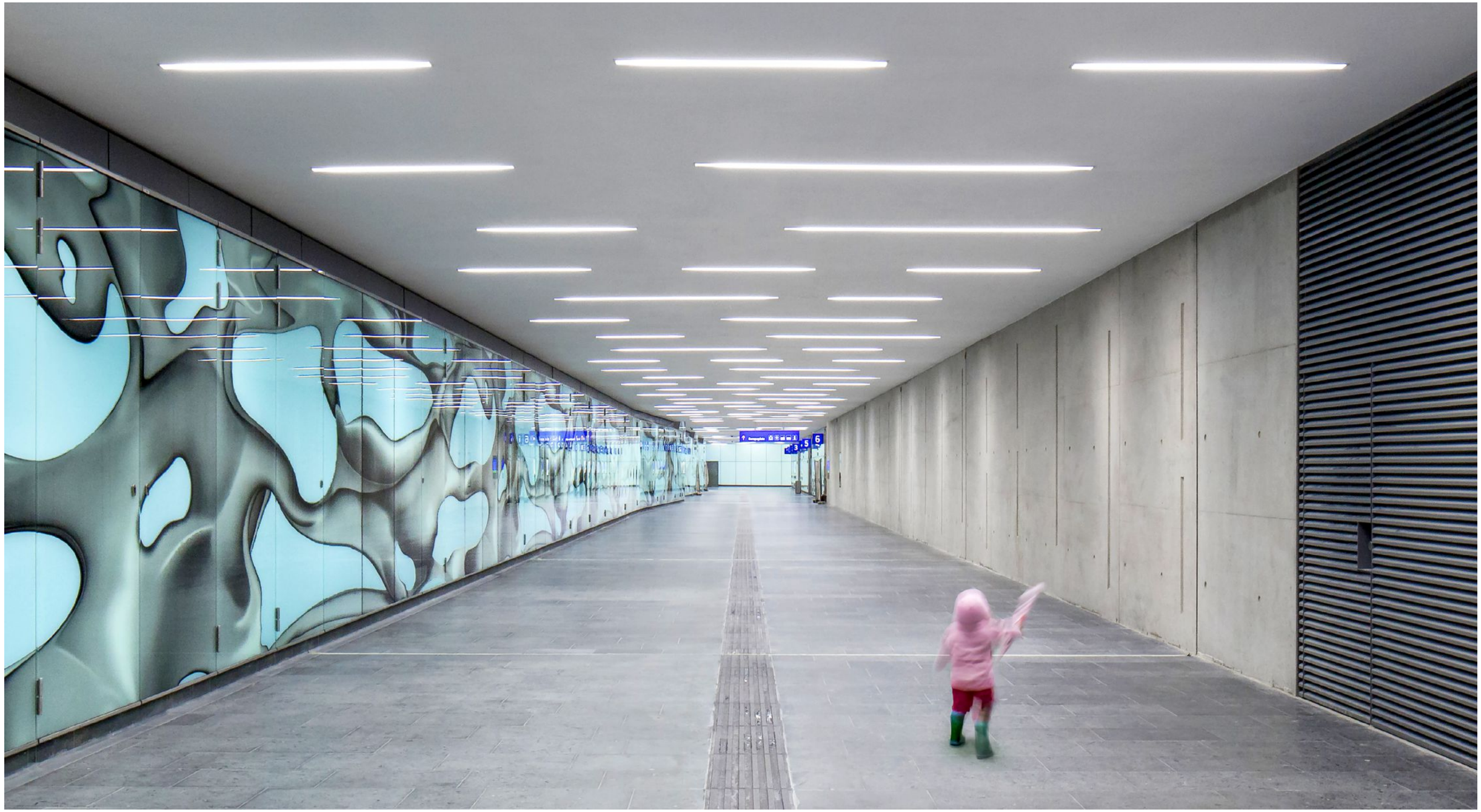
CONCRETE INSTALLATION HOUSING

L-W-H (mm)	ORDER CODE
662·75·88	045-35920 10
1262·75·88	045-35940 10
1662·75·88	045-35950 10
2462·75·88	045-35980 10

LUMINOUS FLUX value alculated for CRI ≥ 80, colour white, cover opal

Private Residence Plane House
Skiathos, GR – by K-Studio

ÖBB passage Graz, AT –
by skyline architekten ZT gmbh with lighting design
by ESC engineering Service & Consulting kg



back

BASO 60 IP54

surface

EN Luminaire housing from extruded aluminium profile, angular design; light-tight end caps in aluminium, no visible screws; surface powder coated; suitable for wall or ceiling mounting; luminaire profile (end caps come pre-assembled) can be pre-mounted; remaining luminaire components mounted without tools; closed light insert made of PMMA, consisting of converter unit and circuit board unit; light inset with screwed-on, thus maintenance-friendly, transparent end cap in PMMA; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; IP67 socket connector system for easy and sealed electrical connection

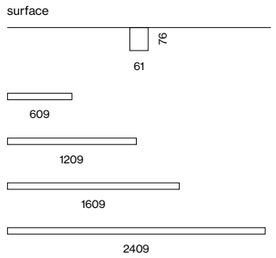
ES Cuerpo de perfil de aluminio con diseño angular; tapa terminal de aluminio con cierre estanco, ningún tornillo visible; superficie con recubrimiento de pintura en polvo; apropiada para montaje en techo y paredes; perfil de luminaria (tapa terminal premontada de fábrica) premontable; resto de componentes luminosos montables sin herramienta; elemento de luz cerrado de PMMA, compuesto de convertidor y pletina; elemento de luz con tapa terminal transparente de metacrilato atornillada y de fácil mantenimiento; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; conector con casquillo IP67 para realizar una conexión eléctrica estanca

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 125 lm/W
L90 @ 50 000 h
DALI-2
opal, IP54

Types

surface



Colours

Light distribution

direct

Order options

IP RATING
IP54

COLOUR TEMPERATURE
3000 K 5
4000 K 6

CONTROL
DALI-2

MATERIAL COLOUR
○ traffic white RAL 9016 7
● umbra grey RAL 7022 D

LIGHT OPTIC COVER
opal high performance

Options on request

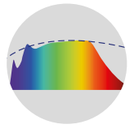
COLOUR RENDERING INDEX
CRI ≥ 90
CRI ≥ 98 XPECTRUM

MOUNTING
concrete installation housing

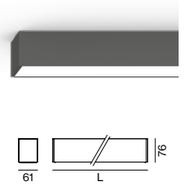
quick installation

system solution (p. 940)

dust & splash water protection (IP54)



CRI ≥ 98 XPECTRUM



BASO 60 surface

RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | IP54 | X-PERT | X-PERT

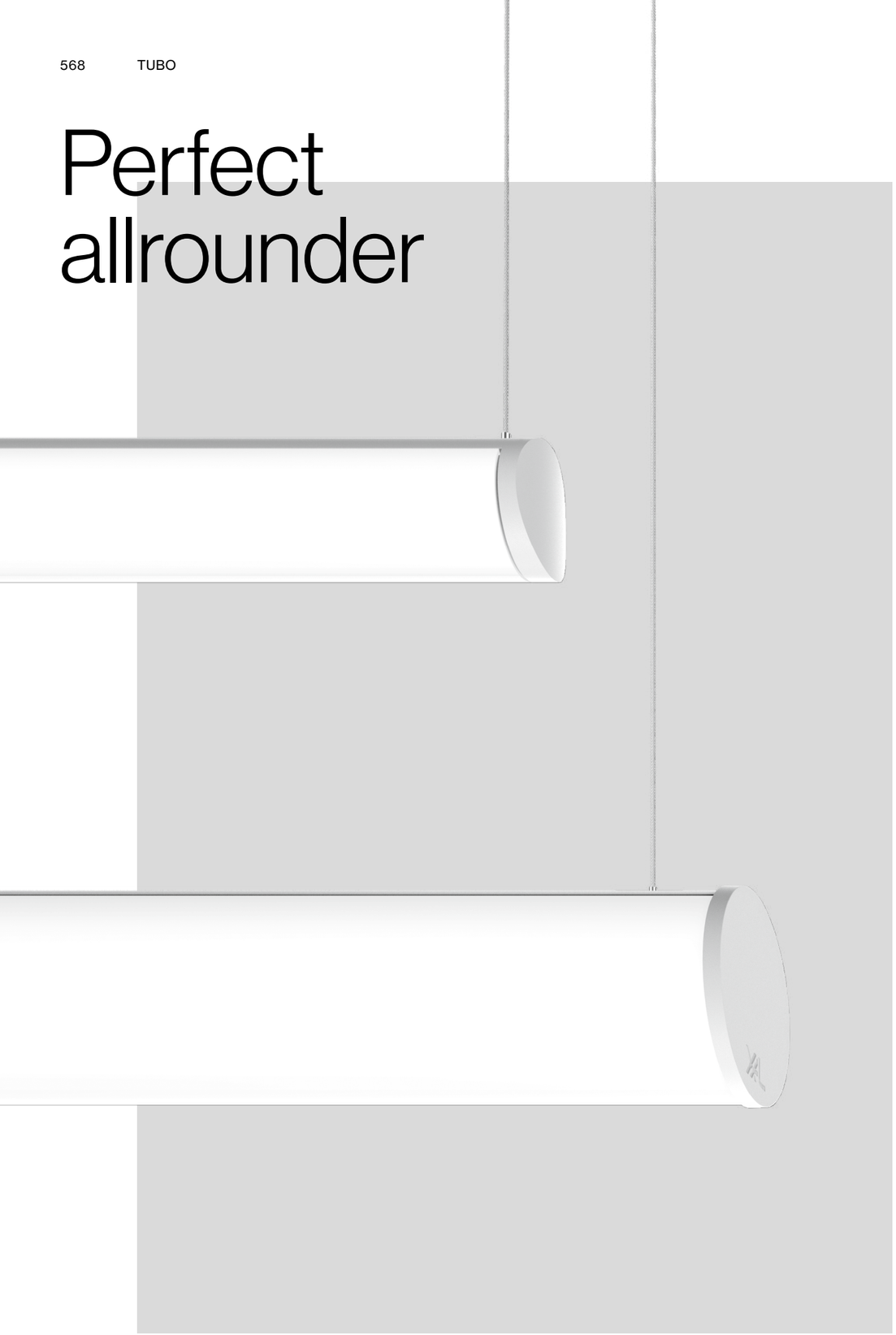
IP54 LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
11.2 W	3000 K	1320 lm	609	8 4 5 - 4 1 2 2 ⁘ 3 ◪ H
	4000 K	1400 lm		
22.4 W	3000 K	2640 lm	1209	8 4 5 - 4 1 2 4 ⁘ 3 ◪ H
	4000 K	2790 lm		
29.9 W	3000 K	3530 lm	1609	8 4 5 - 4 1 2 5 ⁘ 3 ◪ H
	4000 K	3720 lm		
45 W	3000 K	5290 lm	2409	8 4 5 - 4 1 2 8 ⁘ 3 ◪ H
	4000 K	5590 lm		

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

University Research Institute
Ulm, DE – by bizer architekten

Perfect allrounder

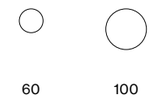


TUBO

EN TUBO places no limits on creativity. Thanks to the height-adjustable cable suspension, the luminaire is particularly popular combined with other TUBO single luminaires for fancy patterns or creative arrangements. Maximum design freedom goes hand in hand with a pleasant room ambiance, as TUBO‘s characteristic beam angle of up to 340° provides gentle ceiling illumination. TUBO can be used as a pendant luminaire, or as a surface-mounted version for walls and ceilings. Especially in entrance areas, corridors, and public spaces, the luminaire with light colours 3000 K or 4000 K and opal cover provides homogeneous ambient lighting.

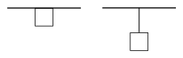
ES Con TUBO es posible dar rienda suelta a la creatividad. Gracias a su suspensión de cable dotada de regulación de altura, la luminaria puede combinarse a la perfección con otras luminarias individuales TUBO para crear sistemas únicos o configuraciones creativas. Esa máxima libertad de diseño va acompañada de la obtención de una atmósfera interior agradable, ya que el ángulo de proyección de hasta 340° característico de TUBO genera una suave iluminación del techo. TUBO puede utilizarse no solo como luminaria de suspensión, sino también en una variante de superficie para el montaje en paredes y techos. Sobre todo en áreas de entrada, pasillos y zonas públicas, esta luminaria garantiza un alumbrado general homogéneo con temperaturas de color de 3000 K o 4000 K y difusor opal.

Types



60 100

Mountings



surface suspended

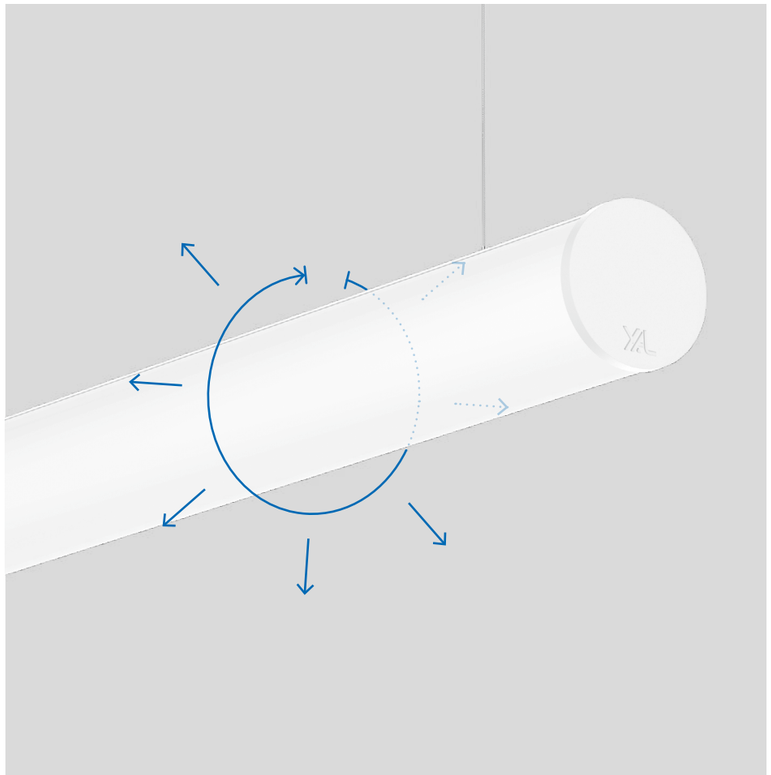
Light distribution

opal

340° light distribution

EN With its 340° beam pattern and opal cover, TUBO delivers homogeneous illumination as well as slight ceiling brightening. This makes the luminaire perfect for places where a pleasant ambient lighting is desired, such as reception areas, corridors, or foyers.

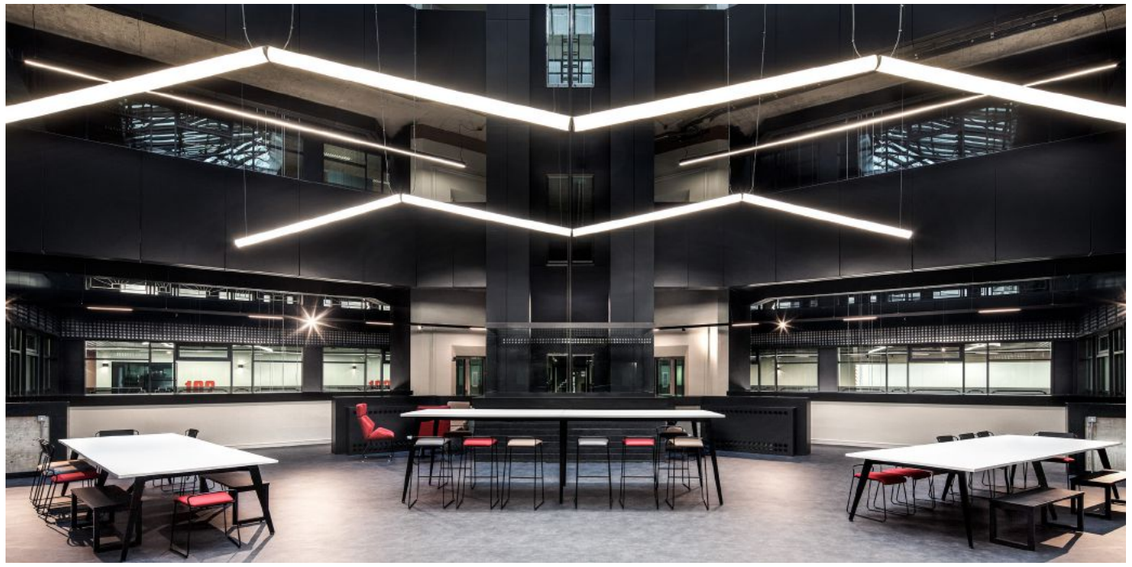
ES Con su ángulo de proyección de 340° y su difusor opal, TUBO ofrece un alumbrado homogéneo unido a una iluminación ligera del techo. Por eso, esta luminaria es perfecta para lugares en los que se desea contar con una iluminación general agradable, como zonas de recepción, pasillos y vestíbulos.



Mounting options

EN TUBO is available in both surface-mounted and pendant versions. It is suitable for mounting on ceilings and walls and supports a room's interior design.

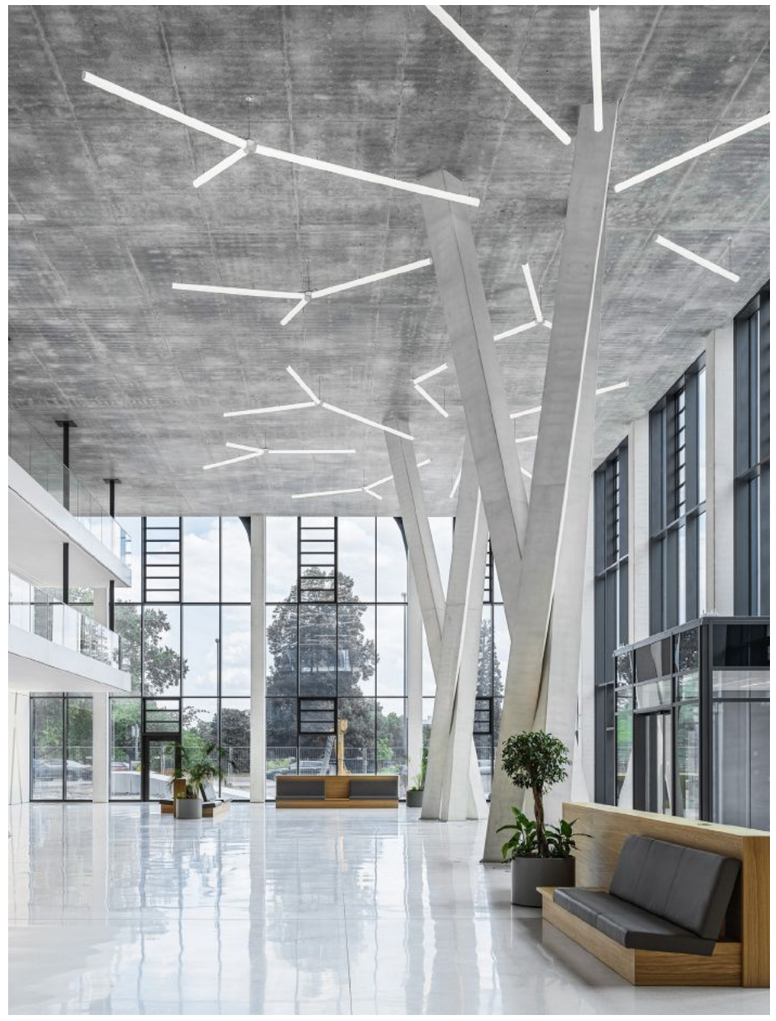
ES TUBO está disponible en una variante de superficie y en una variante suspendida. Es adecuada para el montaje en el techo o en la pared y realza el diseño arquitectónico interior de una sala.



Bespoke arrangements

EN Mounting the pendant luminaire is highly flexible. The height-adjustable cable suspension with a joint allows TUBO to be suspended horizontally, or at an angle at different heights. The luminaire thus offers enormous creative freedom in designing bespoke patterns and unusual light formations.

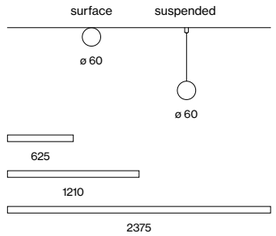
ES El montaje de la luminaria de suspensión admite múltiples posibilidades. Una suspensión por cable articulada con regulación de altura hace que TUBO pueda suspenderse no solo en horizontal, sino también de forma oblicua a diferentes alturas. Con ello, la luminaria ofrece una gran libertad creativa para el diseño de patrones de luz individuales y configuraciones luminosas originales.



Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 114 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal

Types



Colour

Light distributions

direct 340°
direct 340°

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

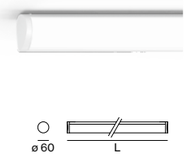
non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010

LIGHT OPTIC COVER

opal

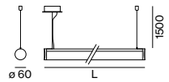


TUBO 60 surface

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
16.5 W	3000 K	1780 lm	625	058-3112 ⁘ ⇕ 7O
	4000 K	1880 lm		
33 W	3000 K	3560 lm	1210	058-3114 ⁘ ⇕ 7O
	4000 K	3760 lm		
66 W	3000 K	7110 lm	2375	058-3118 ⁘ ⇕ 7O
	4000 K	7530 lm		



TUBO 60 suspended

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
16.5 W	3000 K	1780 lm	625	058-3212 ⁘ ⇕ 7O
	4000 K	1880 lm		
33 W	3000 K	3560 lm	1210	058-3214 ⁘ ⇕ 7O
	4000 K	3760 lm		
66 W	3000 K	7110 lm	2375	058-3218 ⁘ ⇕ 7O
	4000 K	7530 lm		

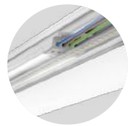
DESIGN AWARD 2022

TUBO 60

surface / suspended

EN Supporting profile in extruded aluminium; end cap in aluminium; surface powder coated; suitable for wall or ceiling mounting (TUBO 60 surface); surface mounted or suspended luminaire with cable suspension; height adjustment without tools; with transparent feeder cable; light control via high-quality lens system for maximum, homogeneous illumination; completely homogeneously illuminated, cylindrical HPO (High Performance Opal) cover; energy-efficient LEDs with very good colour rendering

ES Perfil soporte fabricado en aluminio; tapas finales de aluminio; superficie con recubrimiento de pintura en polvo; apropiada para montaje en techo y paredes (TUBO 60 surface); lámpara superpuesta o lámpara colgante con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; direccionam. de luz con óptica de lente alta calid. para alumbr. techo máx. y homog.; difusor HPO (High Performance Opal) de alumbrado totalmente homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

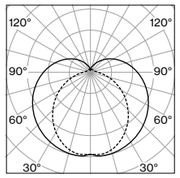


driver integrated

system solution (p. 952)

uniform illumination

Light distribution



opal
direct

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

Heidelberg Cement AG Heidelberg, DE –
by Albert Speer + Partner Architekten with lighting
design by Hailight Lichtplanung, Andreas Haidegger

TUBO 100

surface / suspended

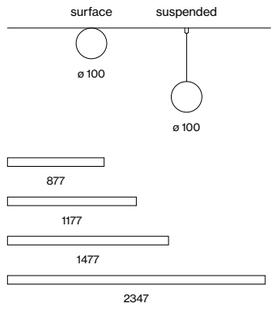
EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; powder coated; suitable for wall or ceiling mounting (TUBO 100 surface); surface mounted or suspended luminaire with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; luminaire profile for mounting available in advance; remaining components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-eff. LEDs – very good colour rendering

ES Perfil soporte fabricado en aluminio; tapas finales de aluminio sin tornillos visibles; recubierto de polvo; apropiada para montaje en techo y paredes (TUBO 100 surface); lámpara superpuesta o lámpara colgante con cable; altura regulable sin herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; cubierta cilíndrica de PMMA satinada para iluminación homogénea; con 340° de emisión e iluminación de techo; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 138 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal

Types



Colour

Light distributions

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010

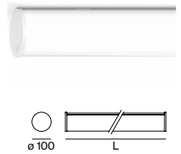
LIGHT OPTIC COVER

opal

Options on request

CONTROL

Casambi

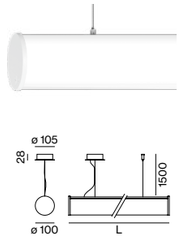


TUBO 100 surface

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240V · CB · X-PERT · X-PERT

LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27.5 W	3000 K	3580 lm	877	058-11333 ⁘ ⇕ 7O
	4000 K	3790 lm		
37 W	3000 K	4770 lm	1177	058-11334 ⁘ ⇕ 7O
	4000 K	5050 lm		
46 W	3000 K	5960 lm	1477	058-11335 ⁘ ⇕ 7O
	4000 K	6310 lm		
73 W	3000 K	9540 lm	2347	058-11338 ⁘ ⇕ 7O
	4000 K	10100 lm		



TUBO 100 suspended

RG 0 IEC 62471 · DALI 1 ADDR. · 220-240V · CB · X-PERT · X-PERT

LUMINAIRE

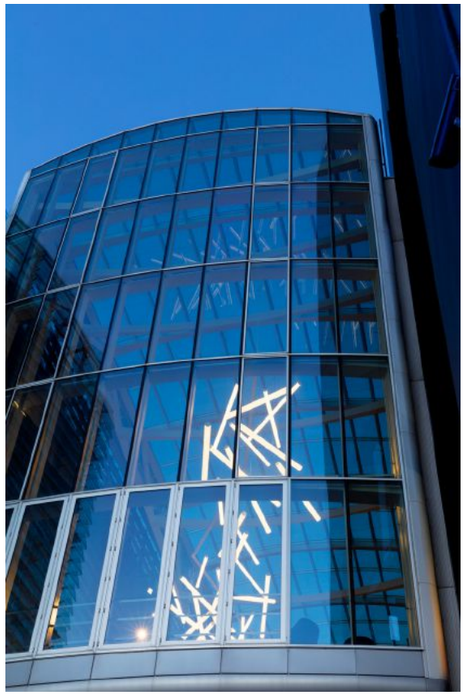
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27.5 W	3000 K	3580 lm	877	058-12333 ⁘ ⇕ 7O
	4000 K	3790 lm		
37 W	3000 K	4770 lm	1177	058-12334 ⁘ ⇕ 7O
	4000 K	5050 lm		
46 W	3000 K	5960 lm	1477	058-12335 ⁘ ⇕ 7O
	4000 K	6310 lm		
73 W	3000 K	9540 lm	2347	058-12338 ⁘ ⇕ 7O
	4000 K	10100 lm		

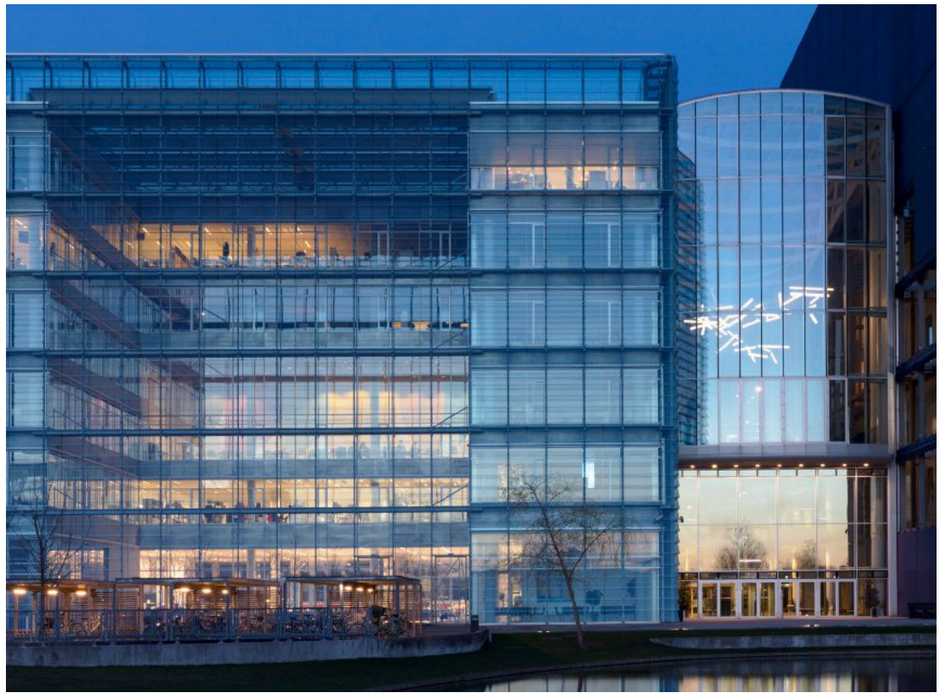
system solution (p. 954)

uniform illumination

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

DR Byen
Copenhagen, DK –
by Vilhelm Lauritzen Arkitekter
with lighting design by Willerup&Heinsvig





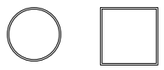
Create light sculptures

INO

EN A classic in lighting design, redefined. Create exciting, multidimensional light sculptures by combining different INO shapes. INO's lighting characteristics are extraordinary. Light is emitted upwards and downwards through a sole exit surface, surrounding the luminaire like an aura. The circular and square luminaires are mounted horizontally or vertically. INO is available in white, black, and grey, as well as in numerous custom colours. All versions come in the light colours 2700 K, 3000 K, 4000 K, or Tunable White.

ES Todo un clásico en la planificación luminotécnica, ahora redefinido. La combinación de formas geométricas distintas permite crear magníficas esculturas de luz multidimensionales. INO destaca por su modo de proyección: la luz es proyectada hacia arriba y hacia abajo a través de una sola superficie de salida hacia el interior, rodeando la luminaria a modo de aura. Las luminarias cuadradas o circulares pueden montarse en horizontal o en vertical según las preferencias. INO está disponible en blanco, negro, gris y oro, además de otros colores especiales. Todos los modelos pueden suministrarse con temperaturas de color de 2700 K, 3000 K, 4000 K o Tunable White.

Types



700
900
1200
1500

750
1000
1250
1500

Mounting

suspended

Light distributions

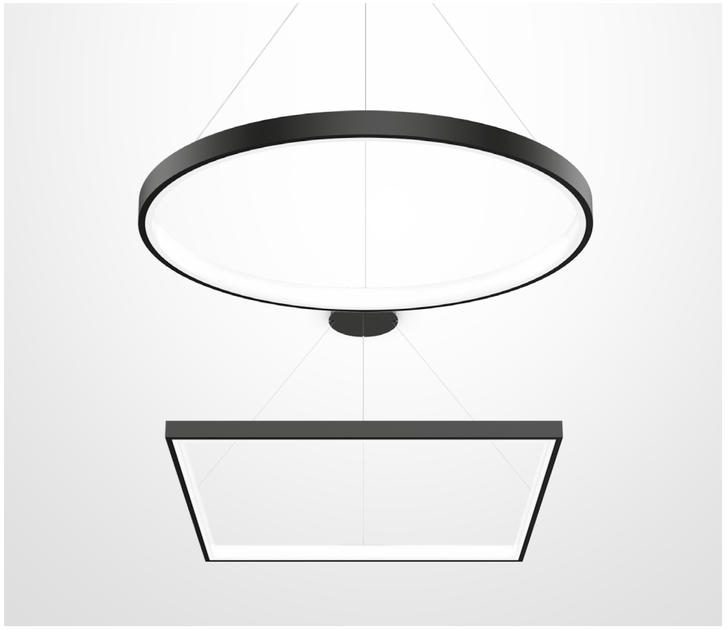
opal

direct
indirect

Light distribution

EN INO's beam characteristics make it unique. It boasts a three-dimensional light-emitting surface that sends light upwards, downwards, and inwards, surrounding the luminaire with an aura. This high-quality luminaire's surroundings are illuminated evenly, while the inside of the ring stays visible even from a distance.

ES INO destaca por su modo de proyección. Una superficie de salida tridimensional hace que la luz se proyecte hacia arriba, hacia abajo y hacia el interior y rodee la luminaria a modo de aura. Su luz de alta calidad ilumina el entorno uniformemente a la vez que mantiene visible la parte interior del anillo.



Geometric variety

EN Discover even more INO design options through different sizes and shapes. The luminaire is available in square and circular versions. Up to four different sizes provide even more creative freedom.

ES Descubra otras posibilidades de diseño con INO utilizando distintos tamaños y formas. La luminaria está disponible como variante cuadrada o circular. Sus cuatro tamaños distintos generan aún más posibilidades de combinación creativas.

Colour variety

EN INO comes in the standard white, grey, or black. Other colours are available, unlocking maximum design freedom for your project. Find out more about our palette at: xal.com/colours

ES INO se suministra en los colores estándar blanco, gris, negro y dorado. También existen otras variantes de color disponibles, lo que proporciona la máxima libertad de diseño para su proyecto. Encontrará más información sobre nuestra paleta de colores en xal.com/colours

xal.com/colours

TW – Tunable White

EN Changes in the colour of light have a substantial effect on our mood. Tunable White allows the colour temperature to be continuously adjusted from 2700 K (warm light) to 6500 K (cool light) to dynamically adapt the lighting to the time of day or ambient brightness.

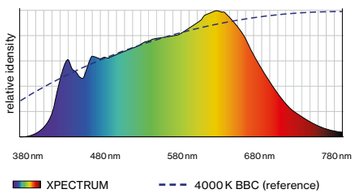
ES Los cambios de color de la luz tienen un efecto considerable en nuestro estado de ánimo. Tunable White hace posible una modificación continua de la temperatura de color desde 2700 K (luz cálida) hasta 6500 K (luz fría), con el fin de adaptar la iluminación de forma dinámica a la hora del día o a la luminosidad del entorno.

Effective from every perspective

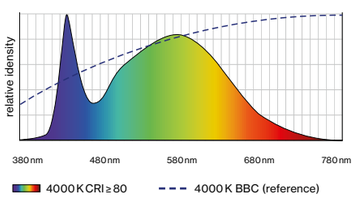
EN INO can be suspended horizontally or vertically from the ceiling. INO offers a range of options for creating bespoke arrangements and effective ceiling and wall sculptures.

ES INO puede suspenderse del techo no solo en horizontal, sino también en vertical. De ese modo, INO permite realizar configuraciones personalizadas y crear llamativas esculturas luminosas en paredes y techos.

XPECTRUM LED



Commercially available LED 4000 K



Full-spectrum LED

EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 $R_f = 98$ and $R_g = 101$ further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices $R_f = 98$ y $R_g = 101$ según la norma IES TM-30-15– garantiza una mayor comodidad visual.

back

INO circle

suspended

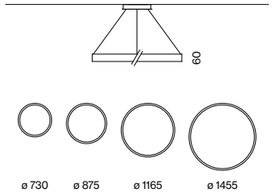
EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface powder coated; pendant fitting with cable suspension; height adjustment without tools; with transparent feeder cable; electronic operating unit installed in the canopy; completely homogeneously illuminated, satinised PMMA cover; inwards facing emission characteristics; direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; canopy with 2 cable openings and plug-in terminal for through wiring

ES Luminaria con forma de anillo fabricada en aluminio con soldadura de alta calidad; superficie con recubrimiento de pintura en polvo; suspendido con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; driver instalado en el baldaquino; tapa PMMA iluminada homogéneamente con acabado sanitado; proyección orientada hacia el interior; iluminación directa/indirecta con un alto confort visual; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino con abertura de 2 orificios para integrar el cableado y sencilla conexión

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 143 lm/W
L90 @ 50 000 h
DALI-2
opal

Types



Colours

standard xal.com/colours

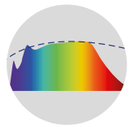
Light distribution

direct indirect

DiiA® standards 251, 252, 253

direct / indirect illumination

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

SUSPENSION

cable 2000 mm / canopy central

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours* p. 992	X

*canopy always in white

LIGHT OPTIC COVER

opal high performance

Options on request

SUSPENSION

cable 2000 mm

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

CONTROL

Casambi

COLOUR TEMPERATURE

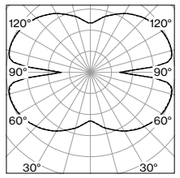
tunable white 2700 – 6500 K

DALI-2 DT8

SHAPES

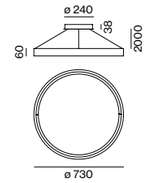
INO trig suspended
INO hex suspended
INO circle vertical suspended

Light distribution



opal high performance
direct / indirect

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

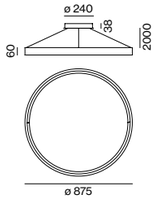


INO 700 circle suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX)	ORDER CODE
32 W	2700 K	4060 lm	0 3 4 - 3 4 1 2 ⁘ 3 ◪ H
	3000 K	4310 lm	
	4000 K	4570 lm	

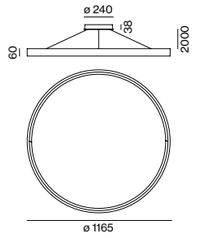


INO 900 circle suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
39 W	2700 K	4870 lm	0 3 4 - 3 4 1 3 ⁘ 3 ◪ H
	3000 K	5180 lm	
	4000 K	5480 lm	

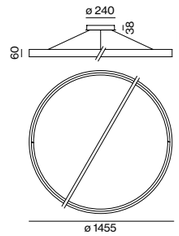


INO 1200 circle suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
51 W	2700 K	6490 lm	0 3 4 - 3 4 1 4 ⁘ 3 ◪ H
	3000 K	6900 lm	
	4000 K	7310 lm	

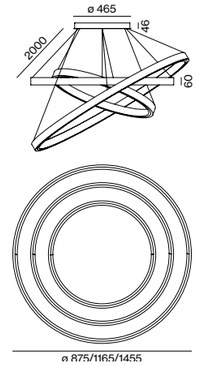


INO 1500 circle suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
64 W	2700 K	8120 lm	0 3 4 - 3 4 1 5 ⁘ 3 ◪ H
	3000 K	8630 lm	
	4000 K	9130 lm	



INO TRIPLE circle suspended

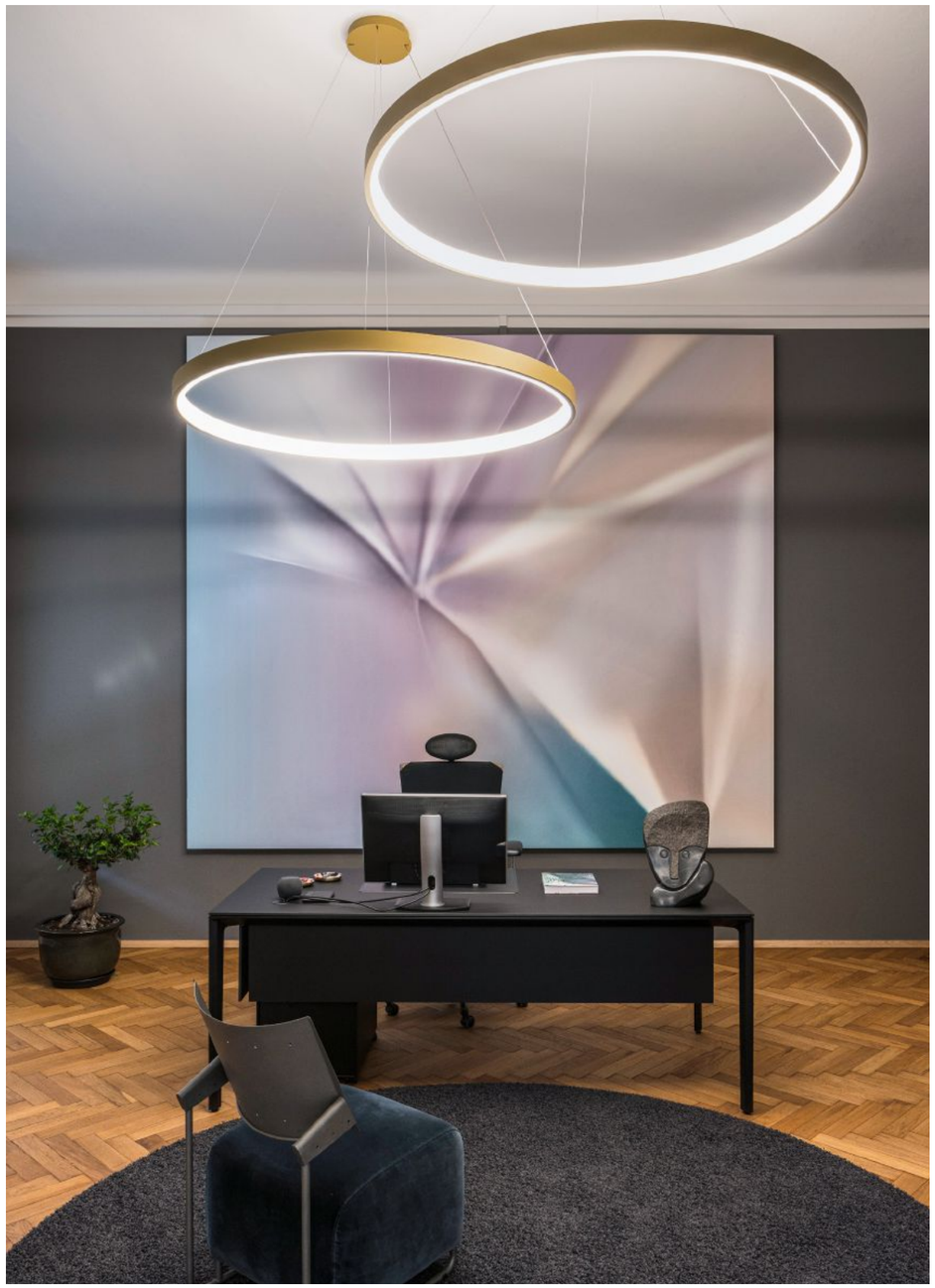
RG 0 IEC 62471 | DALI 3 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

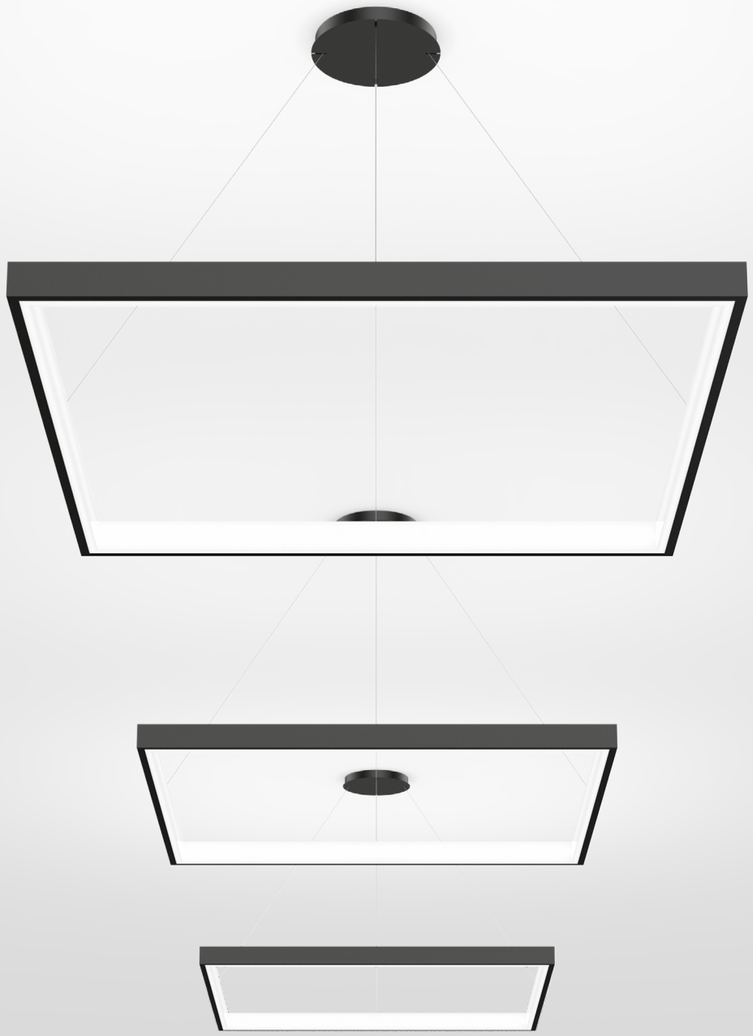
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
154 W	2700 K	19580 lm	0 3 4 - 3 8 1 5 ⁘ 3 ◪ H
	3000 K	20710 lm	
	4000 K	21920 lm	

Villa Mayfair Barcelona, ES

PrimeTime Touristik und Marketing GmbH Graz, AT



back



INO square

suspended

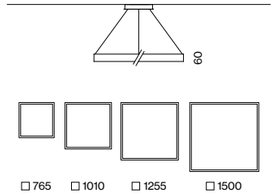
EN Square aluminium luminaire housing; surface powder coated; pendant fitting with cable suspension; height adjustment without tools; with transparent feeder cable; electronic operating unit installed in the canopy; completely homogeneously illuminated, satinised PMMA cover; inwards facing emission characteristics; direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; canopy with 2 cable openings and plug-in terminal for through wiring

ES Cuerpo cuadrado de aluminio; superficie con recubrimiento de pintura en polvo; suspendido con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; driver instalado en el baldaquino; tapa PMMA iluminada homogéneamente con acabado sanitado; proyección orientada hacia el interior; iluminación directa/indirecta con un alto confort visual; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; baldaquino con abertura de 2 orificios para integrar el cableado y sencilla conexión

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 144 lm/W
L90 @ 50 000 h
DALI-2
opal

Types

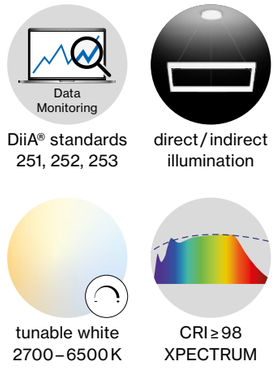


Colours

standard xal.com/colours

Light distribution

direct indirect



DiiA® standards 251, 252, 253

direct / indirect illumination

tunable white 2700 – 6500 K

CRI ≥ 98 XPECTRUM

Order options

SUSPENSION
cable 2000 mm / canopy central

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6

CONTROL
DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours* p. 992	X

*canopy always in white

LIGHT OPTIC COVER
opal high performance

Options on request

SUSPENSION
cable 2000 mm

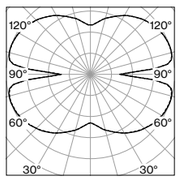
COLOUR RENDERING INDEX
CRI ≥ 90
CRI ≥ 98 XPECTRUM

CONTROL
Casambi

COLOUR TEMPERATURE
tunable white 2700 – 6500 K
DALI-2 DT8

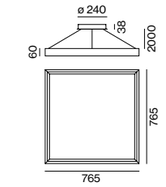
SHAPES
INO trig suspended
INO hex suspended
INO circle vertical suspended

Light distribution



opal high performance
direct / indirect

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

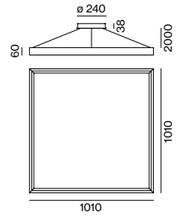


INO 750 square suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
40 W	2700 K	5120 lm	0 3 4 - 4 4 1 2 ⁘ 3 ◪ H
	3000 K	5440 lm	
	4000 K	5760 lm	

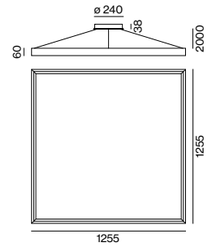


INO 1000 square suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
54 W	2700 K	6830 lm	0 3 4 - 4 4 1 3 ⁘ 3 ◪ H
	3000 K	7250 lm	
	4000 K	7680 lm	

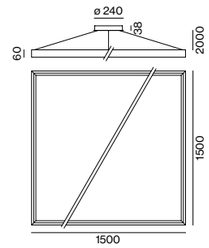


INO 1250 square suspended

RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
67 W	2700 K	8530 lm	0 3 4 - 4 4 1 4 ⁘ 3 ◪ H
	3000 K	9070 lm	
	4000 K	9600 lm	



INO 1500 square suspended

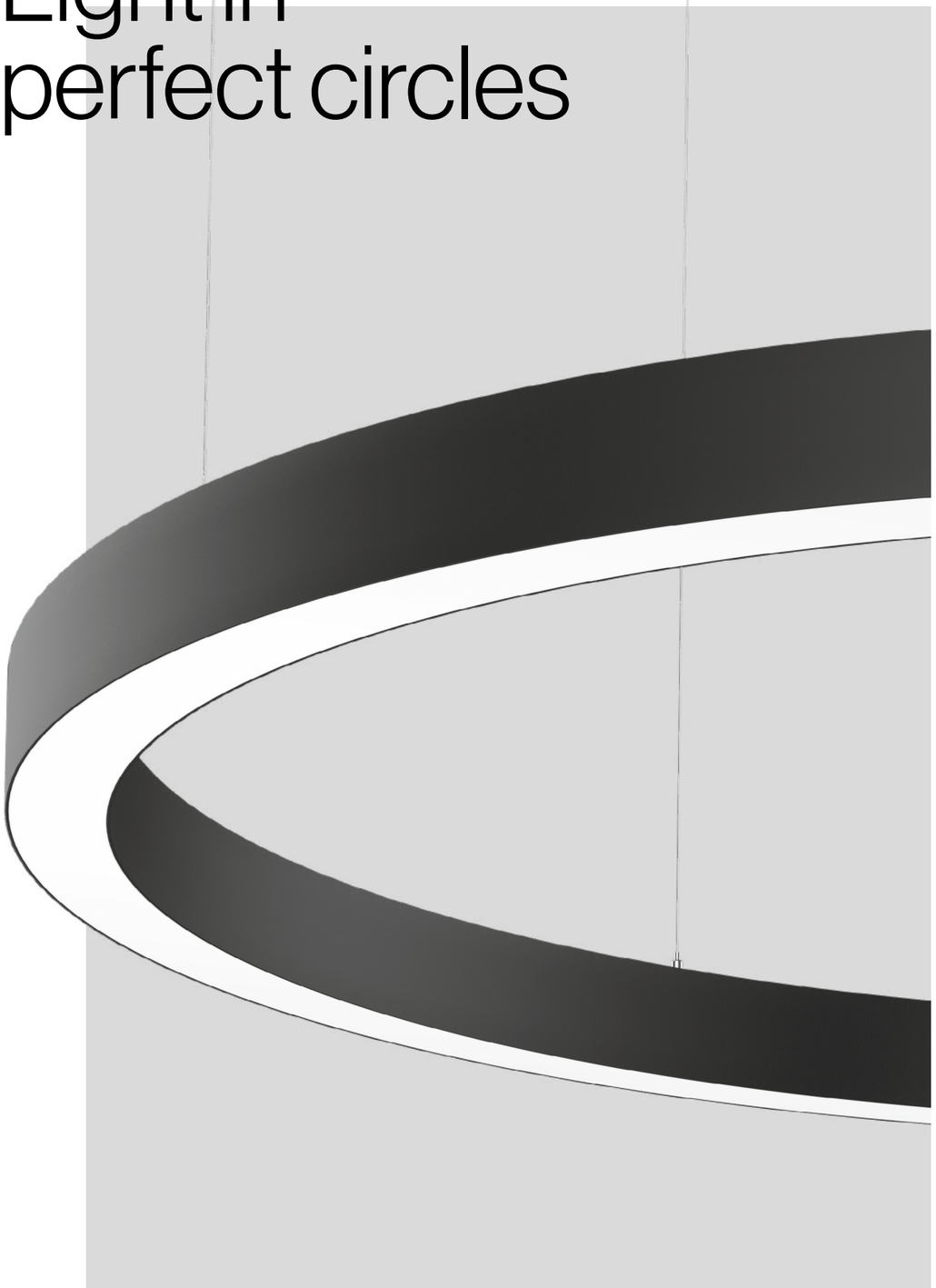
RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
81 W	2700 K	10200 lm	0 3 4 - 4 4 1 5 ⁘ 3 ◪ H
	3000 K	10900 lm	
	4000 K	11500 lm	

Granitlab Coworking
St. Martin im Mühlkreis, AT –
by GHT-Plan GmbH with lighting design
by GHT-Plan GmbH, AREA C.I. Design GmbH

Light in perfect circles

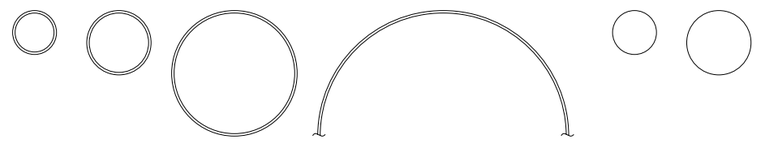


MINO CIRCLE

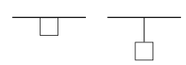
EN Beautiful circular arrangements: The grouping of MINO CIRCLE variants in different sizes and colours creates interesting and fresh ceiling patterns and figures. For optimal room acoustics, the luminaires can be supplemented with highly effective, round acoustic elements. Combine the surface-mounted ceiling and suspended versions, as well as the light colours 3000 K and 4000 K, for more design variety. MINO CIRCLE with indirect beam patterns provides plenty of light where additional ceiling illumination is required. For homogeneous illumination, choose luminaires with opal covers. The microprismatic cover ensures glare-free lighting.

ES Conjuntos circulares estáticos: la colocación de variantes de MINO CIRCLE en tamaños y colores diversos permite obtener patrones de techo y figuras interesantes. Para una óptima acústica ambiental, los cuerpos luminosos pueden complementarse con elementos acústicos redondos de alta eficacia. Es posible combinar las variantes suspendidas y de montaje en techo con temperaturas de color de 3000 K y 4000 K para lograr un diseño más variado. Allá donde se desee una iluminación adicional del techo, MINO CIRCLE ofrece luz suficiente con su modo de proyección indirecta. Elija luminarias con difusor opal para un alumbrado general homogéneo. El difusor microprismatico garantiza una luz exenta de deslumbramiento.

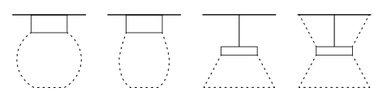
Types



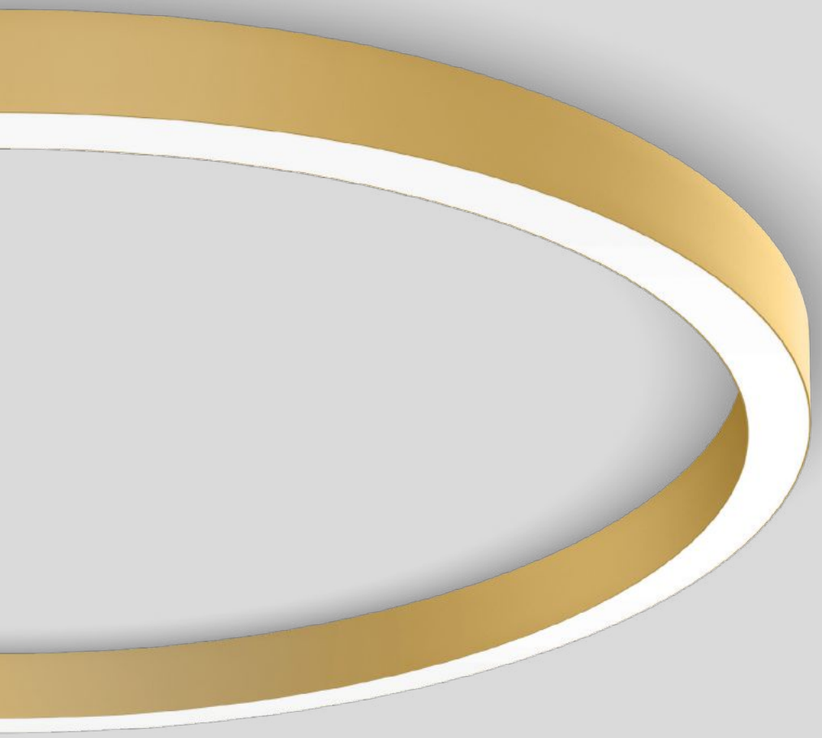
Mountings



Light distributions



back



MINO CIRCLE

ceiling

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface powder coated; light inset consisting of highly reflective coated die-cast aluminium for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; sound absorbing elements available; energy-efficient LEDs with very good colour rendering

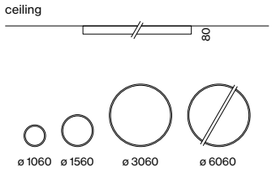
ES Luminaria con forma de anillo fabricada en aluminio con soldadura de alta calidad; superficie con recubrimiento de pintura en polvo; elemento de luz formado por fundación de aluminio con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; elementos de absorción acústica disponibles; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 123 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic

Types

ceiling



Luminaire colours

standard

xal.com/colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z

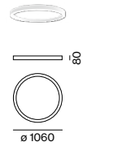
Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

CONTROL

Casambi

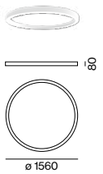


MINO 60 CIRCLE 1000 ceiling

RG0 IEC 62471 | DALI 4 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
65 W	3000 K	7130 lm	0 3 4 - 2 1 1 2 :: 3
	4000 K	7550 lm	

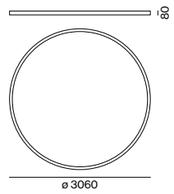


MINO 60 CIRCLE 1500 ceiling

RG0 IEC 62471 | DALI 4 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
99 W	3000 K	11400 lm	0 3 4 - 2 1 1 0 :: 3
	4000 K	12100 lm	



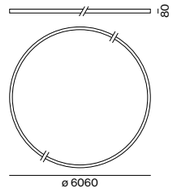
MINO 60 CIRCLE 3000 ceiling

RG0 IEC 62471 | DALI 8 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
198 W	3000 K	23000 lm	0 3 4 - 2 1 1 4 :: 3 7 H
	4000 K	24300 lm	

other configurations see MINO 60 CURVE system



MINO 60 CIRCLE 6000 ceiling

RG0 IEC 62471 | DALI 16 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
396 W	3000 K	45900 lm	0 3 4 - 2 1 1 6 :: 3 7 H
	4000 K	48600 lm	

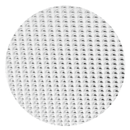
other configurations see MINO 60 CURVE system

Acoustic elements

see page 606

DiiA® standards 251, 252, 253

direct / indirect illumination

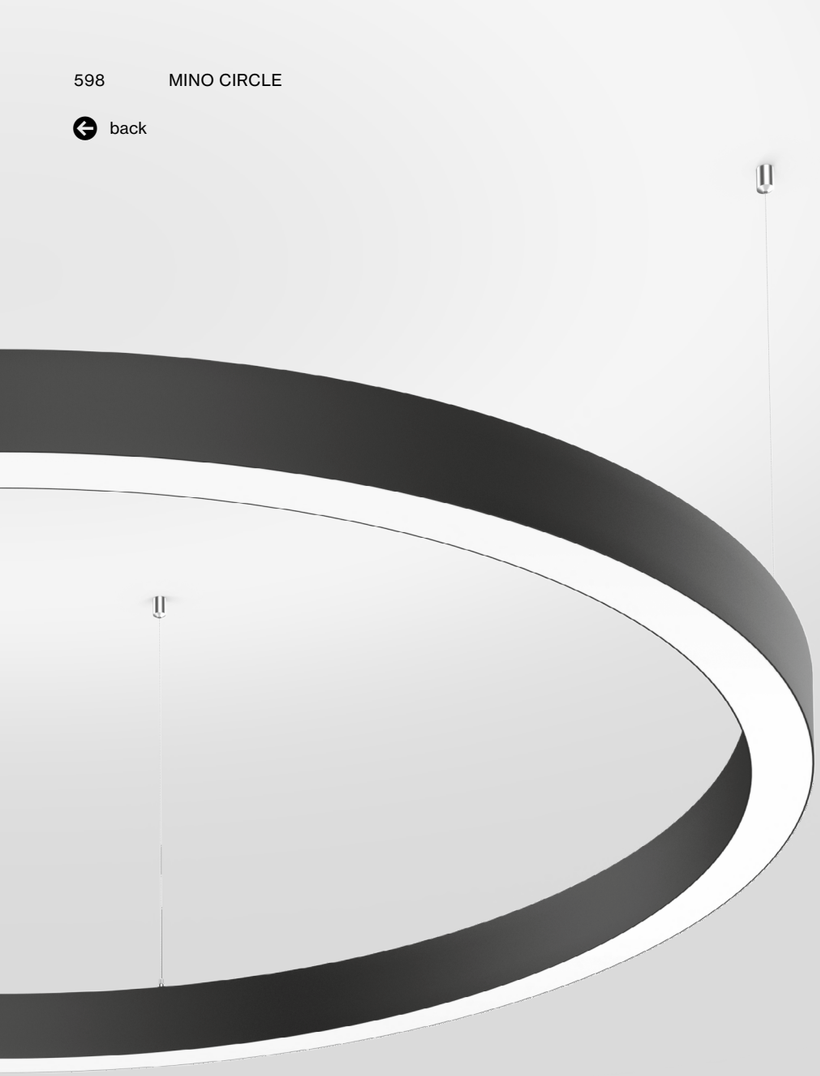


microprismatic

acoustic elements (p. 606)

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

back



MINO CIRCLE

suspended

EN Ring shaped luminaire housing from rolled aluminium extruded profile, seamlessly welded; surface powder coated; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; light inset consisting of highly reflective coated die-cast aluminium for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; optional with direct/indirect illumination characteristic for additional emphasis of the ceiling and more visual comfort; energy-efficient LEDs with very good colour rendering; sound absorbing elements available

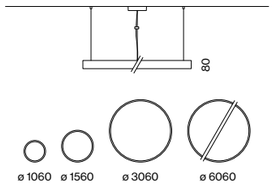
ES Luminaria con forma de anillo fabricada en aluminio con soldadura de alta calidad; superficie con recubrimiento de pintura en polvo; suspendido con cable; regulación de la altura sin necesitar herramientas; incluido cable de alimentación transparente; elemento de luz formado por fundación de aluminio con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; opcionalmente iluminación directa/indirecta para proporcionar un alto confort visual; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; elementos de absorción acústica disponibles

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 132 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic

Types

suspended



Luminaire colours

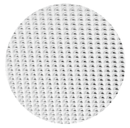
standard xal.com/colours

Light distributions

direct direct indirect

DiiA® standards 251, 252, 253

direct/indirect illumination



microprismatic

acoustic elements (p. 606)

Order options

SUSPENSION

cable 1500 mm	2
cable 1500 mm / canopy central	4

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

LUMINAIRE COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours* p. 992	X

*canopy always in white

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z

Options on request

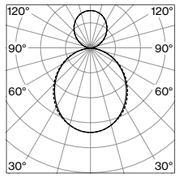
COLOUR RENDERING INDEX

CRI ≥ 90

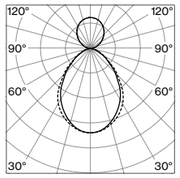
CONTROL

Casambi

Light distributions

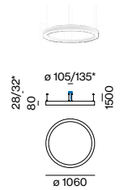


opal
direct/indirect

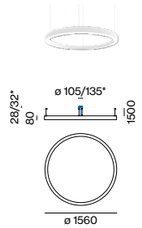


microprismatic
direct/indirect

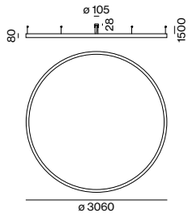
LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

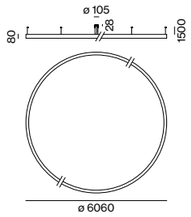


*canopy central version



*canopy central version





MINO 60 CIRCLE 1000 suspended

RG0 IEC 62471 | DALI 4 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
65 W	3000 K	7130 lm	0 3 4 - 2 ⥀ 1 2 ⁘ 3 ◪ ◘
	4000 K	7550 lm	

RG0 IEC 62471 | DALI 5 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
87 W	3000 K	↧ 7120 / ↥ 3190 lm	0 3 4 - 2 ⥀ 1 3 ⁘ 3 ◪ ◘
	4000 K	↧ 7540 / ↥ 3380 lm	

MINO 60 CIRCLE 1500 suspended

RG0 IEC 62471 | DALI 4 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
99 W	3000 K	11400 lm	0 3 4 - 2 ⥀ 1 0 ⁘ 3 ◪ ◘
	4000 K	12100 lm	

RG0 IEC 62471 | DALI 5 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
132 W	3000 K	↧ 11400 / ↥ 5100 lm	0 3 4 - 2 ⥀ 1 1 ⁘ 3 ◪ ◘
	4000 K	↧ 12100 / ↥ 5400 lm	

MINO 60 CIRCLE 3000 suspended

RG0 IEC 62471 | DALI 8 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
198 W	3000 K	23000 lm	0 3 4 - 2 2 1 4 ⁘ 3 7 H
	4000 K	24300 lm	

other configurations see MINO 60 CURVE system

MINO 60 CIRCLE 6000 suspended

RG0 IEC 62471 | DALI 16 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
396 W	3000 K	45900 lm	0 3 4 - 2 2 1 6 ⁘ 3 7 H
	4000 K	48600 lm	

other configurations see MINO 60 CURVE system

Acoustic elements

see page 606

Private Residence SPV29
Sofia, BG –
by ALL in STUDIO LTD
including lighting design

Crown Square's Lobby
Warsaw, PL

Vifor Pharma St. Gallen, CH – by Aroma Architecture - Alessandro Nicotra with lighting design by SLG Lichtdesigner

back

MINO CIRCLE

acoustic elements

EN Acoustic element made of high-quality, self-supporting, recycled PET felt with sound absorbing properties; round design; high-quality visual and tactile surface; absorption of direct sound and sound reflected from the ceiling; this creates high acoustic performance; for insertion into MINO circle ceiling and MINO circle suspended; or single installaion, choice of surface mounted and pendant versions with cable suspension; tool-less suspension height adjustment of the acoustic element

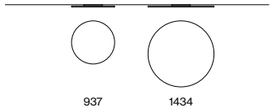
ES Elemento acústico de fieltro PET reciclado y autoportante de calidad superior con propiedades de absorción del sonido; forma redonda; superficie de gran calidad óptica y táctil; absorción del sonido directo y del reflejado por el techo; con ello gran rendimiento acústico; para insertar en MINO circle ceiling y MINO circle suspended; o montaje individual, opcionalmente superpuesto o colgado con cable; ajuste de altura sin herramientas en elemento acústico

Quickinfo

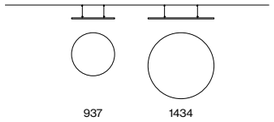
PET felt
♻ from recycled material
up to absorption class A
🔥 B-s1, d0

Types

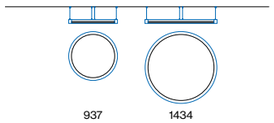
ceiling



suspended



inlay



Colours

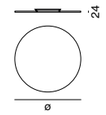
easy mounting

recycled material

Order options

MATERIAL COLOUR	
○ white	W
● marble grey	D
● black	L

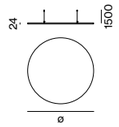
other colours on request



MINO CIRCLE ACOUSTIC ceiling

ACOUSTIC ELEMENT

TYPE	Ø·H (mm)	ORDER CODE
1000 ceiling	937·25	034-271111
1500 ceiling	1434·25	034-271211

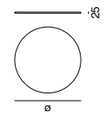


MINO CIRCLE ACOUSTIC suspended

ACOUSTIC ELEMENT

TYPE	L·W·H (mm)	ORDER CODE
1000 suspended	937·25	034-272111
1500 suspended	1434·25	034-272211

cable suspension 1500 mm

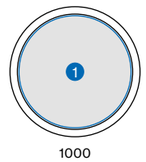


MINO CIRCLE ACOUSTIC inlay

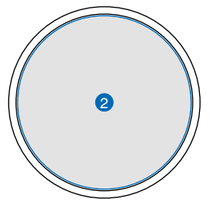
ACOUSTIC ELEMENT

	TYPE	L·W·H (mm)	ORDER CODE
1	MINO circle 1000	937·25	034-270111
2	MINO circle 1500	1434·25	034-270211

only in combination with MINO 60 CIRCLE ceiling or MINO 60 CIRCLE suspended; acoustic inlay for MINO 60 CIRCLE suspended with central canopy on request;



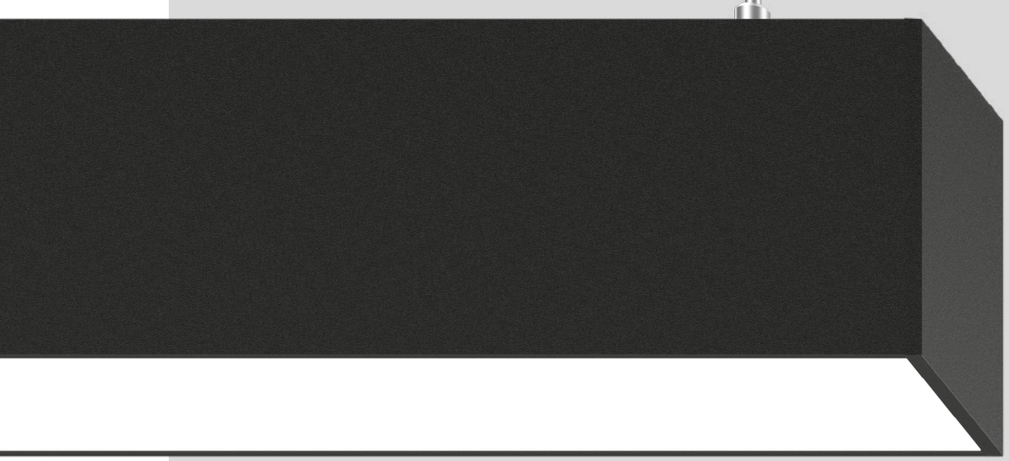
1000



1500

Planday Copenhagen, DK –
lighting design by anker & co

Elegance at work



LITO

EN LITO is a versatile, elegant, and strikingly slim office luminaire. It is available in three standard colours: white, black, and grey. The available versions comply with the standard specifications for workstations. LITO with a microprismatic cover ensures homogeneous illumination, while the reflector version with faceted optics casts directed, glare-free light onto the work surface. LITO comes with a 170° wide beam indirect light to provide pleasant ceiling illumination. Optionally equipped with a brightness & presence sensor, LITO reacts dynamically to people in the office and changing daylight. This generates a friendly working environment and saves energy.

ES Con sus dos anchuras, tres colores estándar (blanco, negro, gris), LITO es una luminaria de oficina versátil, elegante y llamativamente esbelta. Las versiones disponibles cumplen la normativa para puestos de trabajo: LITO con difusor microprismático garantiza un alumbrado homogéneo, mientras que la versión de reflector con óptica facetada dirige una luz concentrada y antideslumbrante a la superficie de trabajo. Para una iluminación agradable del techo, LITO se suministra con una proporción de luz indirecta dotada de un ángulo de apertura de 170°. Equipada opcionalmente con un sensor de luminosidad y presencia, LITO se adapta dinámicamente a las personas en la oficina y a la cambiante luz diurna, lo cual genera un entorno de trabajo agradable y hace posible un ahorro de energía.

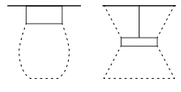
Type

60

Mounting

suspended

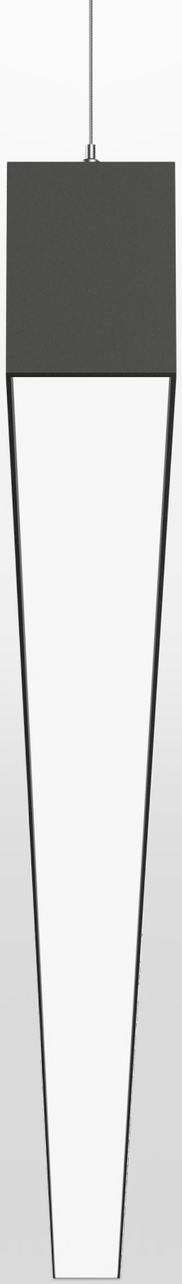
Light distributions



microprismatic (UGR ≤ 19)

direct indirect

back



LITO 60

suspended

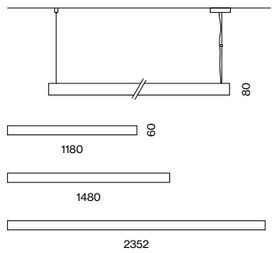
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; suspended; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; light inset made from extruded profile for improved thermal management; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; direct / indirect light distribution; indirect light component with integrated PC boards for maximum, homogeneous ceiling illumination; energy-efficient LEDs with very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; suspensión por cable; altura regulable sin herramienta; fijación en la luminaria con enganches elásticos; libre posicionamiento; con cable de alimentación transparente; inserto luminoso de perfil extruido para una mejor gestión del calor; cubierta microprismática de metacrilato con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; proyección directa/indirecta; componente de luz indirecta con pletinas propias para una iluminación de techo máxima y homogénea; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 116 lm/W
L90 @ 50 000 h
non DIM, DALI-2
brightness & presence sensor
microprismatic (UGR ≤ 19)

Types



Colours

Light distribution

direct
indirect

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3
ESSENTIAL sensor (brightness & presence)	7

MATERIAL COLOUR

○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

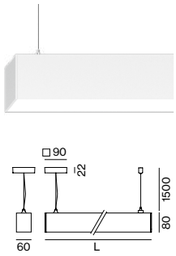
Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

CONTROL

dynamic daylight control



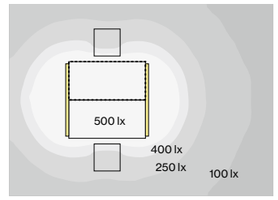
LITO 60 suspended

UGR ≤ 19 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
41 W	3000 K	↧ 2610 / ↥ 1880 lm	1180	0 4 6 - 5 2 2 4 :: ◪ Z
	4000 K	↧ 2760 / ↥ 1990 lm		
51 W	3000 K	↧ 3260 / ↥ 2350 lm	1480	0 4 6 - 5 2 2 5 :: ◪ Z
	4000 K	↧ 3450 / ↥ 2480 lm		
82 W	3000 K	↧ 5220 / ↥ 3750 lm	2352	0 4 6 - 5 2 2 8 :: ◪ Z
	4000 K	↧ 5520 / ↥ 3980 lm		

Technical data



LITO 60 suspended, 51 W, 4000 K
direct / indirect

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

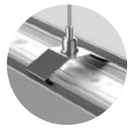
GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

DiiA® standards
251, 252, 253

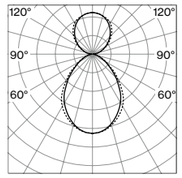
microprismatic
(UGR ≤ 19)



suspension freely
positionable

170° indirect
illumination

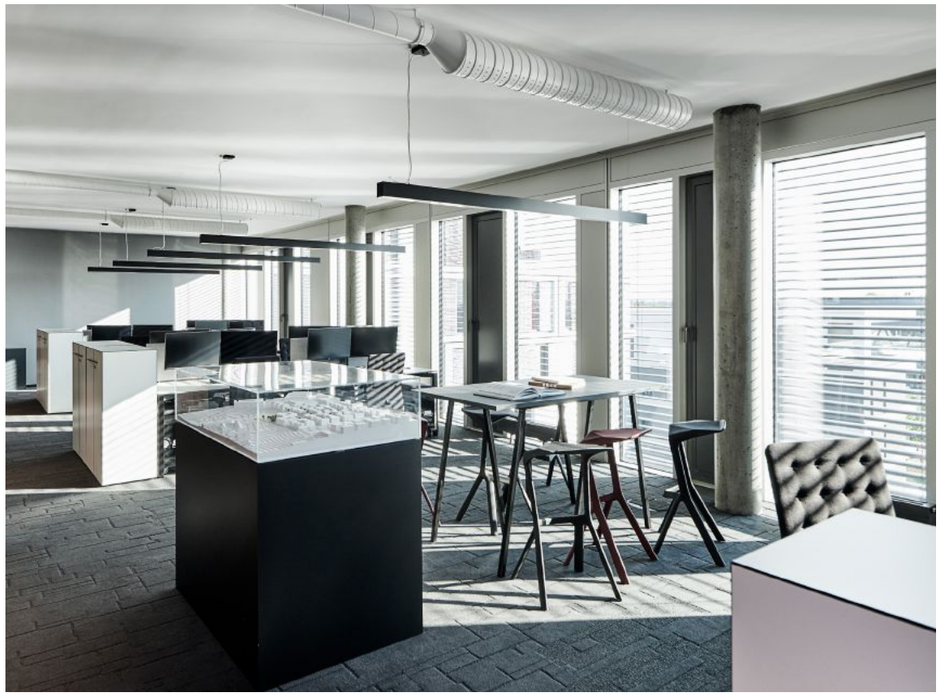
Light distribution



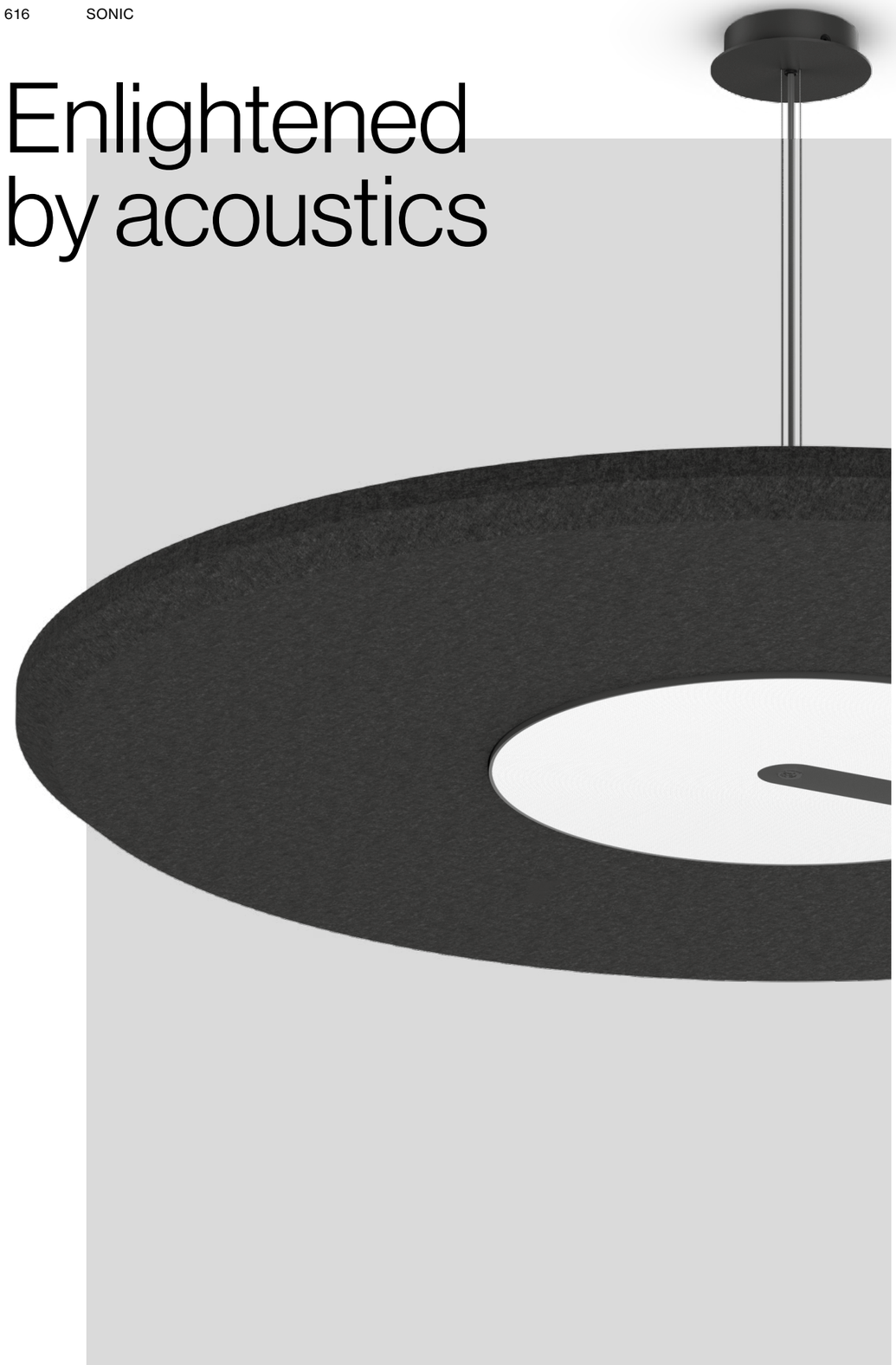
microprismatic
direct / indirect

LUMINOUS FLUX value calculated for
CRI ≥ 80, colour white, cover microprismatic

Deutsche Wohnwerte GmbH & Co. KG
Heidelberg, DE – by brandherm + krumrey
with lighting design by notholt lighting design



Enlightened by acoustics

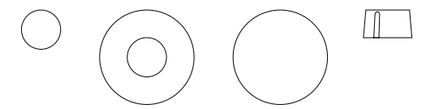


SONIC

EN SONIC optimises lighting and room acoustics in one. The optional absorber elements emphasise the luminaire's modern design and ensure a pleasant acoustic environment. Alternatively, you can combine SONIC with sound-absorbing luminaire shades in 14 different colours. The cover with embossed microprisms promises outstanding lighting quality and workplace-friendly light. SONIC is available in the light colours 3000 K or 4000 K, and can be selected with a brightness and movement sensor, allowing the luminaire to react actively and energy-efficiently to its environment.

ES SONIC le permite optimizar la iluminación y la acústica ambiental de con un único producto. Los elementos acústicos opcionales acentúan el diseño moderno de la luminaria y garantizan un entorno acústico agradable. SONIC también puede combinarse con pantallas acústicos disponibles en 14 colores distintos. El difusor microprismático garantiza una excelente calidad luminosa y una iluminación apta para puestos de trabajo. SONIC està disponible en temperaturas de color de 3000 K o 4000 K y también puede seleccionarse con un sensor de luminosidad y movimiento para que la luminaria reaccione a su entorno de un modo activo y energéticamente eficiente.

Types

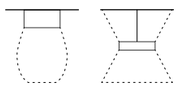


500 luminaire
1280 absorber ring
1280 absorber disk
527 soundcap

Mountings

suspended
free standing

Light distributions



microprismatic (UGR ≤ 19)
direct indirect

back

SONIC

suspended

EN Conical light housing in die-cast aluminium; powder coated; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed or with height adjustable rod suspension (chrome), feed in rod; direct / indirect light distribution; indirect component – special PCBs for increased luminous flux (max. ceiling illumination); completely homogeneous illumination; energy-eff. LEDs – very good colour rendering; canopy for through wiring; acoustic elements made of high-quality, self-supporting, recycled PET felt (high acoustic performance by doubling the material) or as an acoustically effective lampshade (large selection of colours) with sound absorbing properties

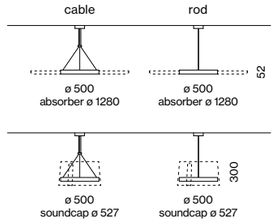
ES Cuerpo luminoso cónico de inyección en aluminio; recubierto de polvo; suspendido con cable; regulación de la altura sin necesitar herramientas; incluido cable de alimentación transparente o cable cromado para suspensión ajusable; característica de emisión directa / indirecta; comp. de luz indir. – Pletinas prop. para mayor flujo luminoso (máx. alumbr. del techo); iluminación homogénea; LED energét. efic. – excelente reprod. crom.; baldaquino para cableado pasante; elementos acústicos de fieltro PET reciclado y autoportante de calidad superior (alto rendimiento acústico por duplicación de material) o como pantalla de luminaria con efecto acústico (gran selección de colores) y propiedades de absorción del sonido

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 152 lm/W
L90 @ 50 000 h
DALI-2
brightness & presence sensor
microprismatic (UGR ≤ 19)

acoustic elements
♻ from recycled material
🔥 available as B-s1, d0

Types



Luminaire colours

standard xal.com/colours

Acoustic colours

standard xal.com/acoustic-colours

Light distribution

direct
indirect

DiiA® standards
251, 252, 253

microprismatic
(UGR ≤ 19)

sensor version
available

acoustic
absorber

direct / indirect
illumination

Order options

SUSPENSION

cable 1500 mm	2
rod 1000 mm	4

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2	3
ESSENTIAL sensor (brightness & presence)	7

LUMINAIRE COLOUR

○ pure white RAL 9010	7
● black grey RAL 7021	6
special colours* ➔ p. 992	X

*canopy always in white

ACOUSTIC COLOUR

○ white	W
marble grey	D
felt grey	G
● black	L
special colours ➔ p. 992	X

LIGHT OPTIC COVER

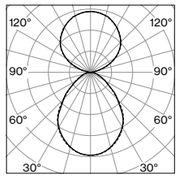
microprismatic (UGR ≤ 19)

Options on request

COLOUR RENDERING INDEX

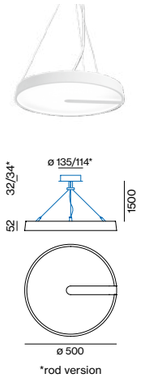
CRI ≥ 90

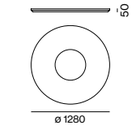
Light distribution

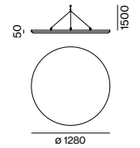


microprismatic
direct / indirect

LUMINOUS FLUX value calculated for
CRI ≥ 80, colour white, cover microprismatic





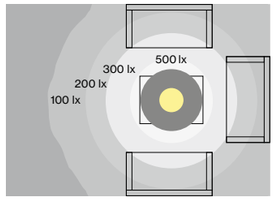


SONIC suspended

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
69 W	3000 K	↧ 5000 / ↥ 4940 lm	059-7 ♁ 21 ⁘ ◪ P
	4000 K	↧ 5290 / ↥ 5230 lm	

Technical data



SONIC suspended, 69 W, 4000 K
direct / indirect with absorber

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE

Surface dimensions	Floor
Surface height	0.5 m

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

Acoustic elements

SONIC ABSORBER ring

COLOUR	Ø·H (mm)	ORDER CODE
white	1280·50	059-771111W
marble grey	1280·50	059-771111D
black	1280·50	059-771111L

only in combination with SONIC suspended or SONIC free standing

SONIC ABSORBER DISK suspended

COLOUR	Ø·H (mm)	ORDER CODE
white	1280·50	059-772211W
marble grey	1280·50	059-772211D
black	1280·50	059-772211L

cable suspension 1500 mm

SONIC SOUNDCAP

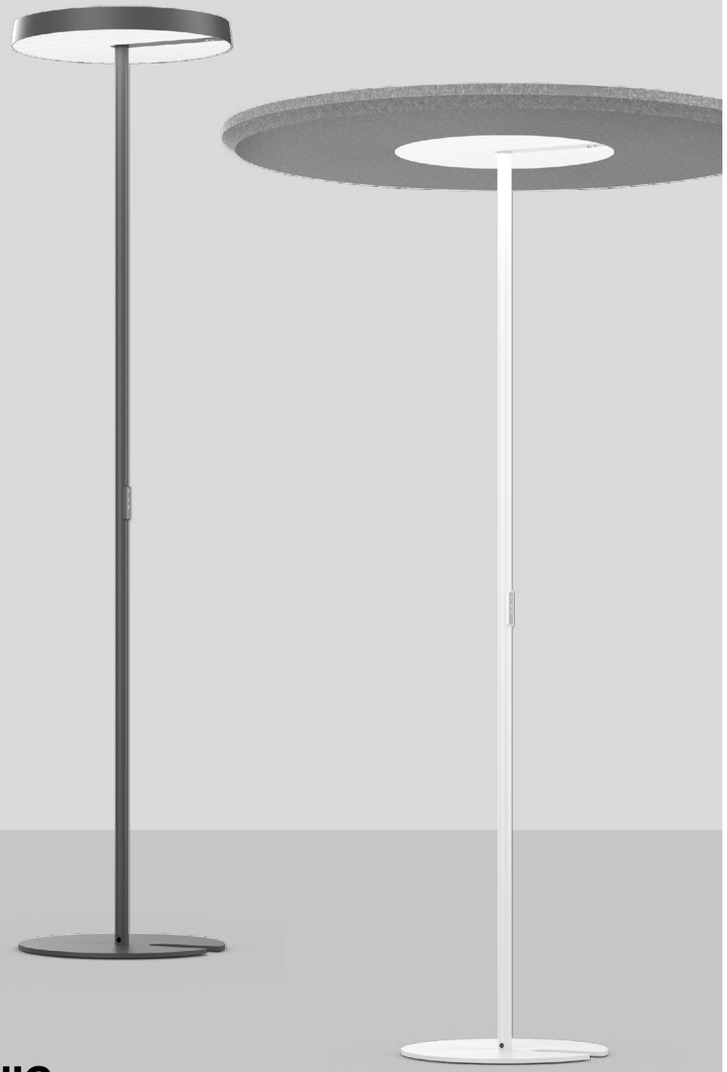
TYPE	Ø·H (mm)	ORDER CODE
soundcap	527·300	059-773111■

only in combination with SONIC suspended or SONIC free standing;
bracket colour white; other bracket colours on request;

C&P Immobilien AG headquarters
Graz, AT – by INNOCAD Architektur ZT

Secure Link Antwerp, BE –
by PROJECTARCHITECTUUR
including lighting design

back



SONIC

free standing

EN Free standing luminaire with conical luminaire head in die-cast aluminium; powder coated; round aluminium downpipe arranged centralised or decentralised; round pedestal with recess for table base; direct / indirect light distribution; indirect component – special PCBs for increased luminous flux (max. ceiling illumination); optional: indirect component with special, inclined PCBs for asymmetric radiation characteristic; completely homogeneous illumination; energy-eff. LEDs – very good colour rendering; incl. connection cable (3 m) with safety plug; acoustic elements made of high-quality, self-supporting, recycled PET felt (high acoustic performance by doubling the material) or as an acoustically effective lampshade (large selection of colours) with sound absorbing properties

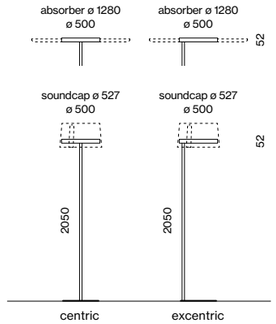
ES Lámpara de pie con cabezal cónico de inyección en aluminio; recubierto de polvo; tubo vertical de aluminio con ubicación opcionalmente centralizado o descentralizado; soporte redondo con sistema de fijación para pata de mesa; característica de emisión directa / indirecta; comp. de luz indir. – Pletinas prop. para mayor flujo luminoso (máx. alumbr. del techo); opcional: proporción indirecta con pletinas propias oblicuas para característica de emisión asimétrica; iluminación homogénea; LED energét. efic. – excelente reprod. crom.; incluye 3 metros de cable de conexión; elementos acústicos de fieltro PET reciclado y autoportante de calidad superior (alto rendimiento acústico por duplicación de material) o como pantalla de luminaria con efecto acústico (gran selección de colores) y propiedades de absorción del sonido

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 152 lm/W
L90 @ 50 000 h
non DIM, touch DIM on pole
brightness & presence sensor
microprismatic (UGR ≤ 19)

acoustic elements
♻ from recycled material
🔥 available as B-s1, d0

Types



Luminaire colours

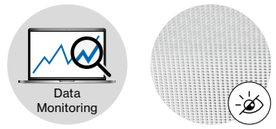
standard xal.com/colours

Acoustic colours

standard xal.com/acoustic-colours

Light distribution

direct
indirect



DiiA® standards 251, 252, 253

microprismatic (UGR ≤ 19)

sensor version available

direct / indirect illumination

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM switch	1
touch DIM on pole	5
ESSENTIAL sensor (brightness & presence)	7

LUMINAIRE COLOUR

○ pure white RAL 9010	7
● black grey RAL 7021	6
special colours → p. 992	X

ACOUSTIC COLOUR

○ white	W
marble grey	D
felt grey	G
● black	L
special colours → p. 992	X

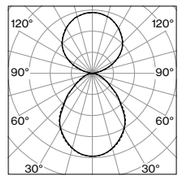
LIGHT OPTIC COVER
microprismatic (UGR ≤ 19)

Options on request

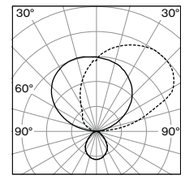
COLOUR RENDERING INDEX
CRI ≥ 90

CONTROL
cluster network DIM
dynamic daylight control (BPI)
Zigbee 3.0

Light distributions

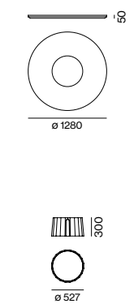


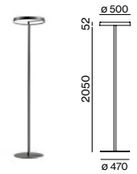
microprismatic direct / indirect



microprismatic direct / indirect asym. power

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover microprismatic





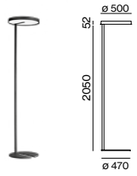
SONIC centric pole free standing

DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
69 W	3000 K	↧ 5000 / ↥ 4940 lm	059-7921 ⁝⁝ ◆ ◪ P
	4000 K	↧ 5290 / ↥ 5230 lm	

DIRECT / INDIRECT ASYMMETRIC POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
98 W	3000 K	↧ 2580 / ↥ 9300 lm	059-7941 ⁝⁝ ◆ ◪ P
	4000 K	↧ 2730 / ↥ 9960 lm	



SONIC excentric pole free standing

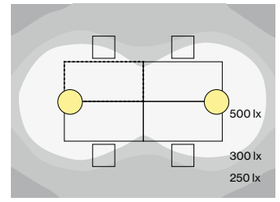
DIRECT / INDIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
69 W	3000 K	↧ 5000 / ↥ 4940 lm	059-7922 ⁝⁝ ◆ ◪ P
	4000 K	↧ 5290 / ↥ 5230 lm	

DIRECT / INDIRECT ASYMMETRIC POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
98 W	3000 K	↧ 2580 / ↥ 9300 lm	059-7942 ⁝⁝ ◆ ◪ P
	4000 K	↧ 2730 / ↥ 9960 lm	

Technical data



SONIC excentric pole free standing 69 W, 4000 K, direct / indirect

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION
Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

Acoustic elements

SONIC ABSORBER ring

COLOUR	Ø-H (mm)	ORDER CODE
white	1280·50	059-771111W
marble grey	1280·50	059-771111D
black	1280·50	059-771111L

only in combination with SONIC centric pole free standing;
for SONIC ABSORBER DISK suspended see p. 619

SONIC SOUNDCAP

TYPE	Ø-H (mm)	ORDER CODE
soundcap	527·300	059-773111 ■

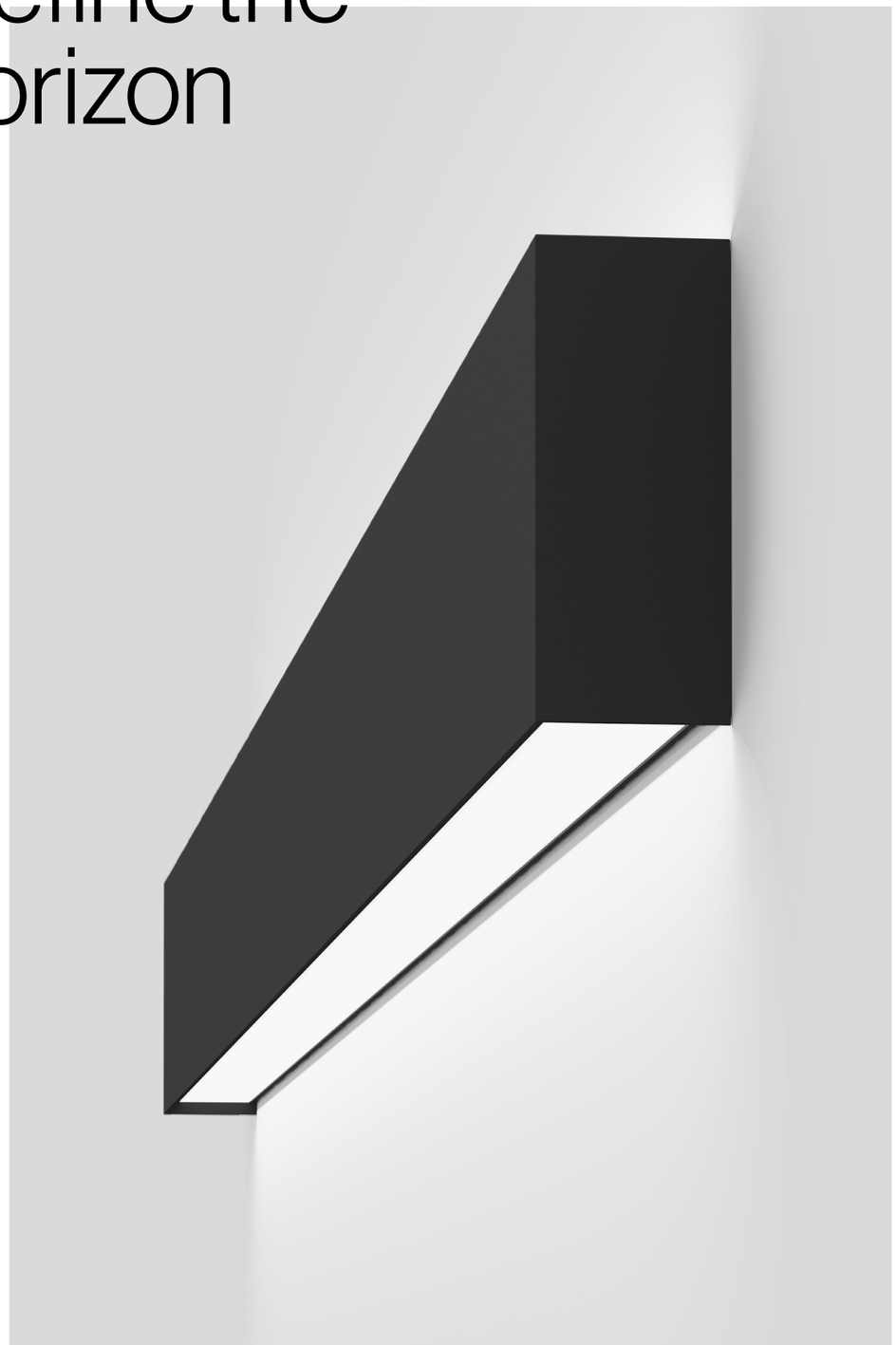
only in combination with SONIC suspended or SONIC free standing;
bracket colour white; other bracket colours on request

DocSander - Dentist Practice Room Munich, DE –
by architopia_christine detering gramming Architekten

Lotus Bakeries Baar, CH –
lighting design by Lilarosso

Borealis AG Vienna, AT –
by burghardt zt gesmbh

Define the horizon



LINEA

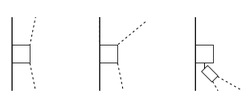
EN Elegant room accentuation, highest performance. LINEA is a reduced, convertible luminaire for stylish wall, floor, and ceiling illumination. The extraordinarily narrow wall profile is completed by various lighting insets. Different beam patterns can be easily combined. For example, an opal cover for homogeneous illumination and asymmetrical illumination for brightening floors or ceilings. Spotlights can be chosen for elegant accentuation or as reading lights. LINEA is available as an individual decorative luminaire in different lengths. Choose between white, black, and special colours for the profile. The inserts optionally have a colour rendering of up to CRI ≥ 98. In addition, the light inserts themselves can be selected in the light colours 2700 K, 3000 K, 4000 K, or as a Tunable White option.

ES Acentuación elegante del espacio y el máximo rendimiento: LINEA es una luminaria minimalista pero versátil, apta para la iluminación refinada de paredes, suelos y techos. El perfil extraordinariamente estrecho se completa con diversos elementos de luz. La fijación a la cara superior y/o inferior del perfil se realiza magnéticamente, por lo que las ópticas pueden cambiarse con toda facilidad. Es posible combinar entre sí distintos modos de proyección, por ejemplo, utilizando un difusor opal para un alumbrado homogéneo, un Wall Grazer para la acentuación de paredes o la iluminación asimétrica para el tamizado de suelos o techos. Pueden elegirse spots para una acentuación elegante o como luz de lectura. LINEA se ofrece en distintas longitudes como luminaria modular decorativa. Los perfiles están disponibles en color blanco, negro y colores especiales. Los insertos luminosos ofrecen una reproducción cromática de hasta IRC ≥ 98. Además, estos elementos pueden elegirse en temperaturas de color de 2700 K, 3000 K, 4000 K o como opción Tunable White.

Mounting

wall

Light distributions

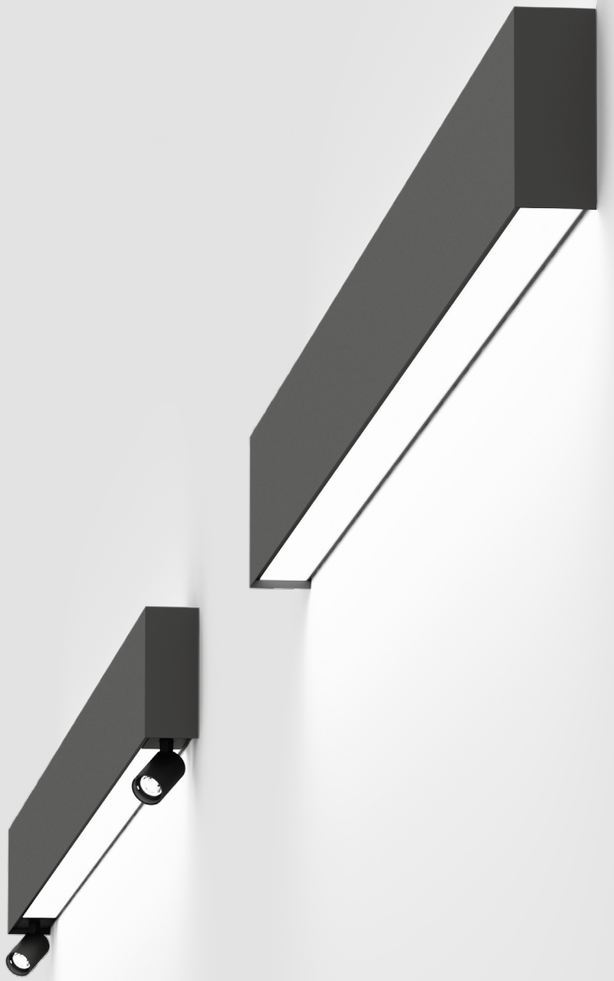


opal
opal

asymmetric
opal

spot

back



LINEA

wall

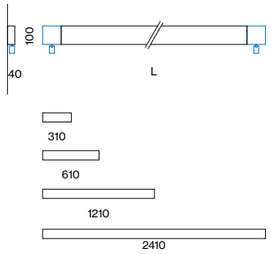
EN Luminaire housing and front cover from extruded aluminium profile, angular version; no visible screws; surface powder coated; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/indirect light distribution; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous lighting intensity (installation optionally for floor or ceiling illumination); energy-efficient LEDs with very good colour rendering; optionally with switch for the JUST 26 spotlight modules

ES Cuerpo de lámpara y cubierta frontal de perfil extrusionado de aluminio, versión poligonal; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; apropiada para montaje pared; iluminación homogénea de la pared o bien del techo mediante distribución uniforme directa/indirecta de la luz; difusor opal de alta calidad que proporciona una iluminación uniforme; o con lente asimétrica de cálculo especial para intensidades luminosas homogéneas (montaje para la iluminación del suelo o del techo); LEDS de alta eficiencia que proporcionan una alta reproducción cromática; opcionalmente con interruptor para insertos de foco JUST 26

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
up to 117 lm/W
L85 @ 50 000 h
non DIM, DALI-2

Types

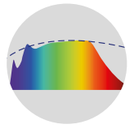


Colours

Light distributions

asym./opal | opal/opal | opal/spot

system solution (p. 960)



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 5000 K*	D

*available from L 610 mm | DALI-2 DT8

CONTROL

non DIM	1
non DIM / switch (only spotlights)	2
DALI-2	3
DALI-2 / switch (only spotlights)	4

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

SPOTLIGHT ALIGNMENT

left	B
right	C
left and right	

spotlight(s) only with 3000 K

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

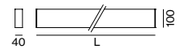
COLOUR TEMPERATURE

2700 K

MATERIAL COLOUR

special colours

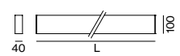
LINEA wall



CRI ≥ 90 | DALI 1 ADDR. | 220-240V

↧ OPAL HIGH PERFORMANCE / ↥ OPAL HIGH PERFORMANCE

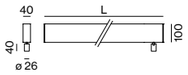
SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
14.7 W	3000 K	↧ 648 / ↥ 648 lm	310	058-6171 AH
	4000 K	↧ 715 / ↥ 715 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	610	058-6172 AH
	4000 K	↧ 1430 / ↥ 1430 lm		
59 W	3000 K	↧ 2590 / ↥ 2590 lm	1210	058-6174 AH
	4000 K	↧ 2860 / ↥ 2860 lm		
111 W	3000 K	↧ 5190 / ↥ 5190 lm	2410	058-6178 AH
	4000 K	↧ 5720 / ↥ 5720 lm		



CRI ≥ 90 | DALI 1 ADDR. | 220-240V

↧ OPAL HIGH PERFORMANCE / ↥ ASYMMETRIC

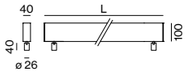
SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
14.7 W	3000 K	↧ 648 / ↥ 821 lm	310	058-6171 AA
	4000 K	↧ 715 / ↥ 906 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1640 lm	610	058-6172 AA
	4000 K	↧ 1430 / ↥ 1810 lm		
59 W	3000 K	↧ 2590 / ↥ 3280 lm	1210	058-6174 AA
	4000 K	↧ 2860 / ↥ 3620 lm		
111 W	3000 K	↧ 5190 / ↥ 6570 lm	2410	058-6178 AA
	4000 K	↧ 5720 / ↥ 7250 lm		



CRI ≥ 90 | DALI 2 ADDR. | 220-240V

↧↥ OPAL HIGH PERFORMANCE / 1 SPOTLIGHT

SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	710	058-6172 ▼H
	4000 K	↧ 1430 / ↥ 1430 lm		
59 W	3000 K	↧ 2590 / ↥ 2590 lm	1310	058-6174 ▼H
	4000 K	↧ 2860 / ↥ 2860 lm		
111 W	3000 K	↧ 5190 / ↥ 5190 lm	2510	058-6178 ▼H
	4000 K	↧ 5720 / ↥ 5720 lm		

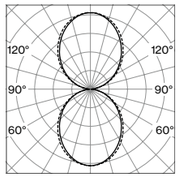


CRI ≥ 90 | DALI 3 ADDR. | 220-240V

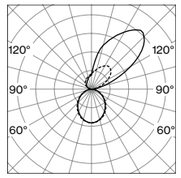
↧↥ OPAL HIGH PERFORMANCE / 2 SPOTLIGHTS

SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
59 W / 2 x 6 W	3000 K	↧↥ 2590 / 3280 lm	1410	058-6174 DH
	4000 K	↧↥ 2860 / 3620 lm		
111 W / 2 x 6 W	3000 K	↧↥ 5190 / 6570 lm	2610	058-6178 DH
	4000 K	↧↥ 5720 / 7250 lm		

Light distributions



↧ opal high performance
↥ opal high performance

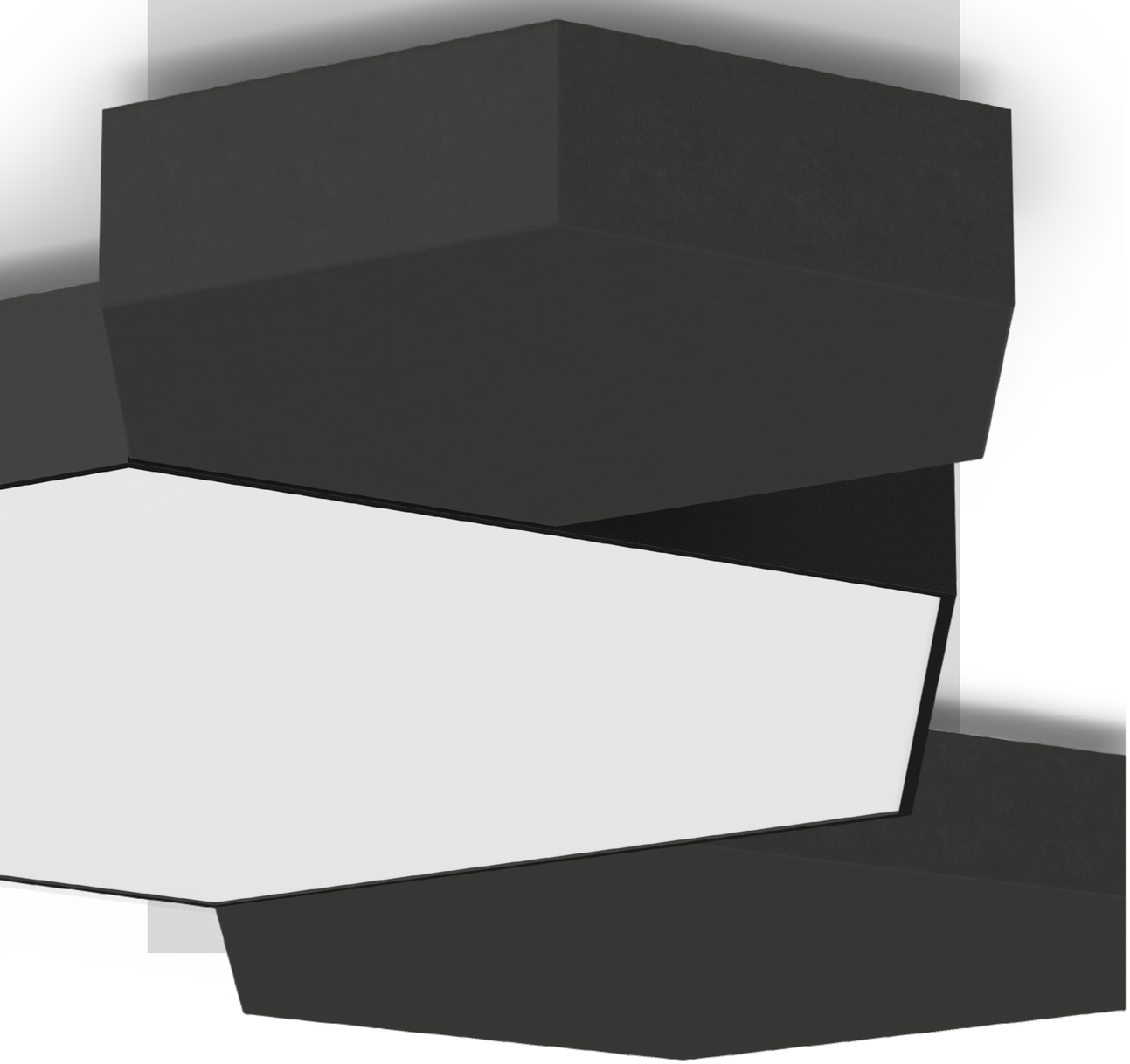


↧ opal high performance
↥ asymmetric

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

Hargassner Energy World Linz, AT –
by architekten berger.hofmann og & tech3 Projektentwicklung GmbH
with lighting design by AREA C.I.DESIGN GmbH

Shaping the office environment

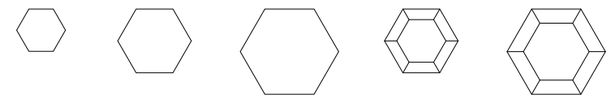


HEX-O

EN HEX-O is a sculptural light acoustics solution that features a modern design and fulfils two essential functions: lighting and room acoustics. State-of-the-art LED technology meets highly efficient acoustic elements to create an optimal working environment. The microprismatic cover provides glare-free light with UGR ≤ 19. HEX-O with an opal cover creates a pleasant and homogeneous room illumination. The combinable polygonal acoustic elements made of 60 % recycled PET fleece work through sound absorption and scattering for all-round balanced room acoustics.

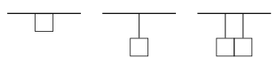
ES HEX-O es una solución escultural de luz y sonido que no solo cautiva por su moderno diseño, sino que también cumple dos funciones importantes en las áreas de iluminación y acústica de salas. La tecnología LED más moderna se combina con elementos acústicos de alta eficiencia para crear un entorno de trabajo óptimo. El difusor microprismático ofrece una luz exenta de deslumbramiento con un índice UGR ≤ 19. HEX- O con difusor opal crea un alumbrado general especialmente homogéneo. Los elementos acústicos triangulares y poligonales combinables, fabricados de un 60 % de fieltro PET reciclado, garantizan una acústica ambiental totalmente equilibrada gracias a sus propiedades de absorción acústica y dispersión uniforme.

Types



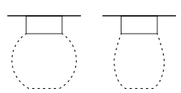
500 HEX-O | 750 HEX-O | 1000 HEX-O | 750 ABSORBER | 1000 ABSORBER

Mountings



ceiling | single suspended | group suspended

Light distributions

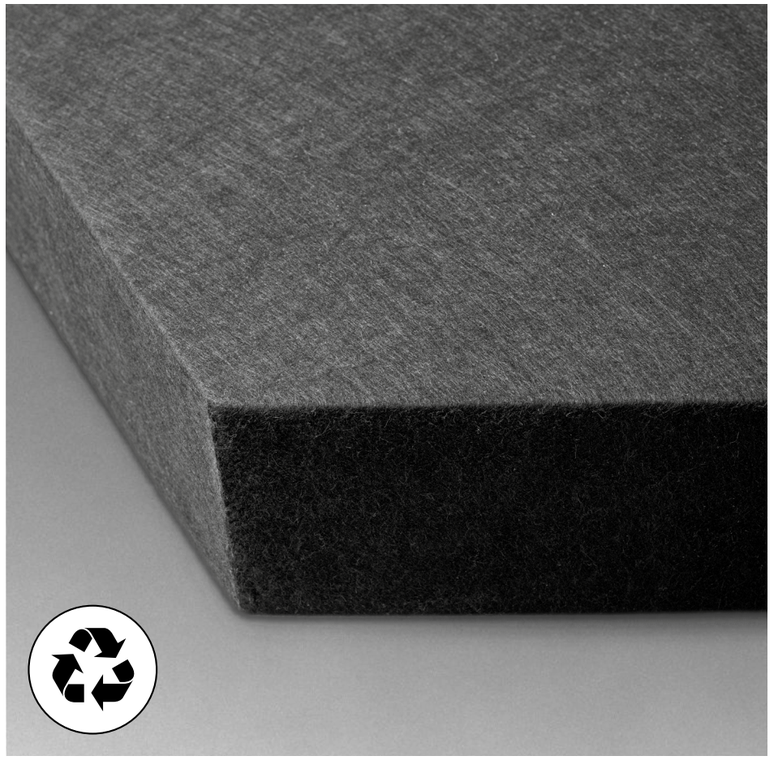


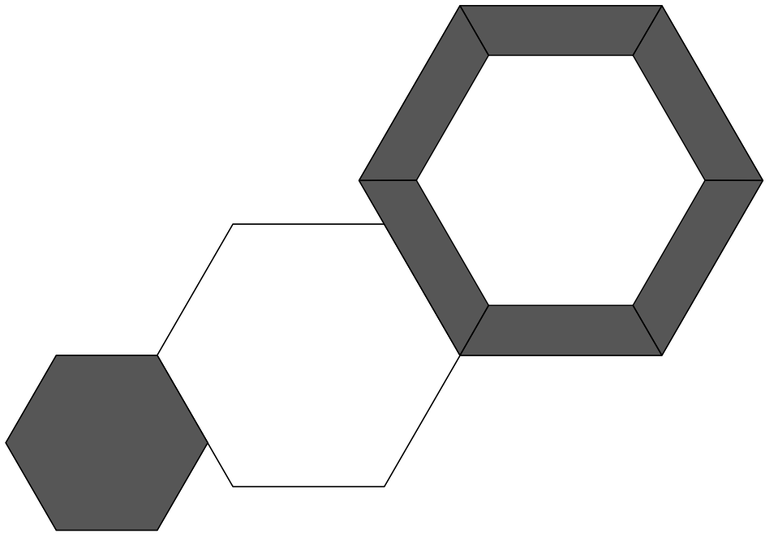
opal | microprismatic (UGR ≤ 19)

Recycled PET

EN HEX-O sound absorbers are made of optically high-quality PET fleece. The velvety, structured material is 60 % recycled PET fleece and has optimal room-acoustic properties. A folding technique specially developed by XAL achieves completely smooth edges, which round off the acoustic bodies visually and in their acoustic efficiency.

ES Los absolvedores acústicos HEX-O y TRIG-O están fabricados de fieltro PET. Este material aterciopelado y texturizado, obtenido a partir de un 60 % de PET reciclado, dispone de unas propiedades acústicas excepcionales. La técnica de plegado especial de XAL permite obtener unas aristas totalmente lisas que mejoran el aspecto visual y el rendimiento de los elementos acústicos.





Sculpturing room acoustics

EN HEX-O effortlessly harmonises sound absorption and illumination. The flexible geometric elements can be arranged into decorative ceiling patterns and expanded at any time. The shape and surface of the three combinable acoustic components – Module, Flat, and Absorber – have multiple effects. The elements absorb higher, midlevel, and down to low frequencies, and scatter sound waves, resulting in noticeably balanced room acoustics.

ES HEX-O combina la absorción acústica y la iluminación fácilmente en un único componente. Los elementos flexibles y geométricos pueden disponerse en patrones de techo decorativos y ampliarse en cualquier momento. La forma y la superficie de los tres elementos acústicos combinables tienen mas de una función: absorben las frecuencias altas, medias y bajas y dispersan el sonido, dando lugar a una acústica ambiental equilibrada.

Acoustic planning by XAL

EN Acoustic spatial planning calculates, measures, or simulates the behaviour of sound in a room. This planning includes, in particular, reverberation time and speech intelligibility. We create a bespoke concept from the results. Through close coordination with contracting planners and customers, we can achieve the optimum balance between light, ambience, and spatial acoustic conditions.

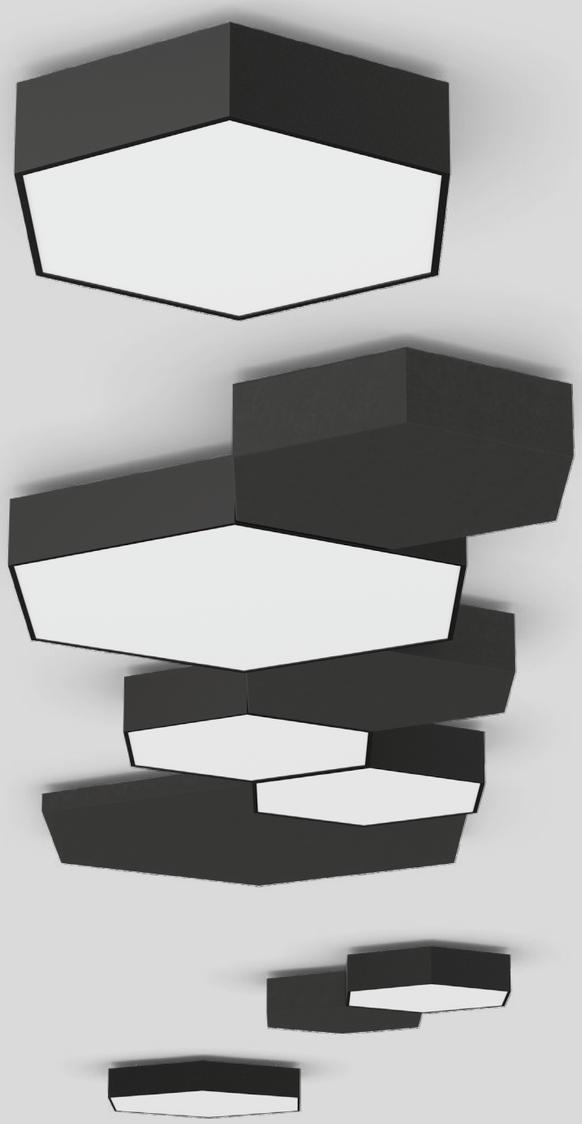
ES En la planificación acústica de espacios, calculamos, medimos y simulamos el comportamiento del sonido en el espacio con parámetros tales como el periodo de reverberación y la inteligibilidad de la voz, entre otros. Partiendo de los resultados obtenidos, elaboramos un esquema personalizado. Una coordinación precisa con proyectistas y clientes nos permite lograr un equilibrio óptimo entre la luz, el ambiente y las condiciones acústicas espaciales.

Light and sound for office

EN HEX-O was developed explicitly for office environments. Anti-glare prisms embossed into the cover create a uniform and glare-free light at the workplace. A striking design language combines standard-compliant office lighting and optimal room acoustics.

ES HEX-O se ha concebido especialmente para entornos de oficinas. Los prismas antideslumbrantes del difusor garantizan una luz uniforme y sin deslumbramiento en el lugar de trabajo. Iluminación para oficinas adaptada a la normativa y una óptima acústica ambiental, combinadas en un lenguaje de formas cautivador.

back



HEX-O

ceiling

EN Hexagonal luminaires & acoustic elements, suitable for single or group installation; quick mounting system without tools; light housing from extruded aluminium profile, seamlessly welded; surface powder coated; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; plug-in terminals for through wiring; acoustic elements: MODULE in the luminaires' dimensions, FLAT with reduced height, ABSORBER to combine with other housings; acoustic element made of high-quality, recycled PET felt; improvement of room acoustics through absorption and scattering of sound waves

ES Luminarias & elementos acústicos hexagonales aptos para el montaje individual o en grupo; sistema de montaje rápido sin herramientas; cuerpo luminoso de perfil de aluminio extrusionado, sin costuras de soldadura; superficie con recubrimiento de pintura en polvo; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; clema de inserción para cableado pasante; elementos acústicos: MODULE en las medidas de las luminarias, FLAT de altura reducida, ABSORBER para la combinación con otros elementos o luminarias; elementos acústicos de fieltro PET reciclado de alta calidad; mejora de la acústica de la sala mediante la absorción y la difusión del sonido

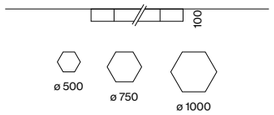
Quickinfo

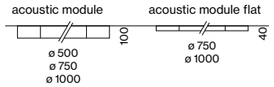
3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 142 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19)

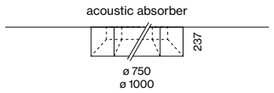
acoustic elements
up to absorption class A
available as B-s1, d0

Types

luminaires







Luminaire colours

Acoustic colours

Light distribution

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

tunable white
2700 – 6500 K

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

LUMINAIRE COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours p. 992	X

ACOUSTIC COLOUR

white	W
marble grey	D
felt grey	G
black	L
special colours p. 992	X

LIGHT OPTIC COVER

opal	O
microprismatic (UGR ≤ 19)	P

Options on request

COLOUR RENDERING INDEX

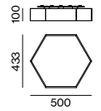
CRI ≥ 90

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

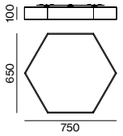


HEX-O 500 ceiling

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

SINGLE AND GROUP MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16.3 W	3000 K	2160 lm	073-615 1 ⁚ 3 ◪ ◘
	4000 K	2290 lm	

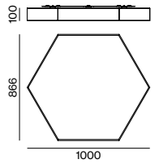


HEX-O 750 ceiling

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

SINGLE AND GROUP MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
35 W	3000 K	4680 lm	073-616 1 ⁚ 3 ◪ ◘
	4000 K	4960 lm	



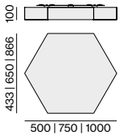
HEX-O 1000 ceiling

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 2 ADDR. | 220-240 V | X-PERT | X-PERT

SINGLE AND GROUP MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68 W	3000 K	9110 lm	073-617 1 ⁚ 3 ◪ ◘
	4000 K	9640 lm	

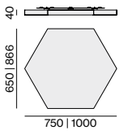
Acoustic elements



HEX-O MODULE ceiling

SINGLE AND GROUP MOUNTING

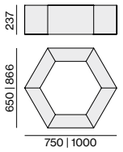
TYPE	ORDER CODE
MODULE 500 ceiling	073-691510 ■
MODULE 750 ceiling	073-691610 ■
MODULE 1000 ceiling	073-691710 ■



HEX-O MODULE FLAT ceiling

SINGLE AND GROUP MOUNTING

TYPE	ORDER CODE
MODULE FLAT 750 ceiling	073-691620 ■
MODULE FLAT 1000 ceiling	073-691720 ■



HEX-O ABSORBER

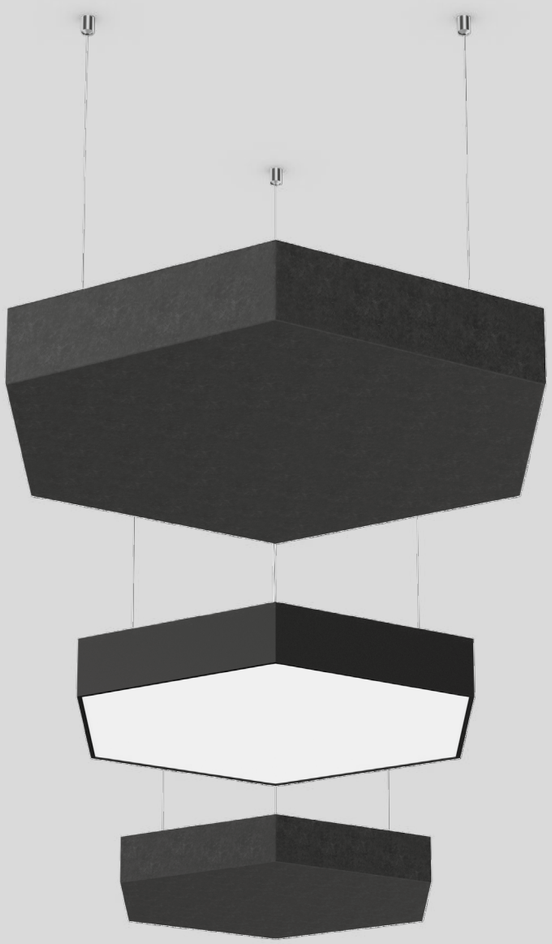
SINGLE AND GROUP MOUNTING

TYPE	ORDER CODE
ABSORBER 750*	073-691640 ■
ABSORBER 1000**	073-691740 ■

*only in combination with HEX-O 500 or MODULE 500
**only in combination with HEX-O 750, MODULE 750 or FLAT 750

Practice Dr. Kohm & Kollegen
Karlsruhe, DE – by herzog, kassel + partner

back



HEX-O

suspended (single mounted)

EN Hexagonal luminaires & acoustic elements; suitable for single installation; pendant fitting with cable suspension (3 cables); height adjustment without tools; light housing from extruded aluminium profile, seamlessly welded; powder coated; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; transparent feed, canopy for through wiring (included); acoustic element made of high-quality, recycled PET felt: MODULE in the luminaires' dimensions, FLAT with reduced height, ABSORBER to combine with other housings; improvement of room acoustics (absorption & scattering of sound waves)

ES Luminarias & elementos acústicos hexagonales; aptos para el montaje individual; suspendido con cable (3 cables); altura regulable sin herramientas; cuerpo luminoso de perfil de aluminio extrusionado, sin costuras de soldadura; recubierto de polvo; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; cable de alimentación transparente, baldaquino para cableado pasante (incluido); elementos acústicos de fieltro PET reciclado de alta calidad: MODULE en las medidas de las luminarias, FLAT de altura reducida, ABSORBER para la combinación con otros elementos o luminarias; mejora de la acústica de la sala (absorción y difusión del sonido)

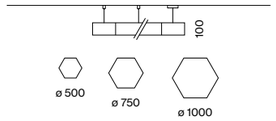
Quickinfo

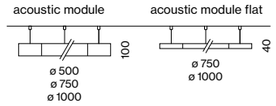
3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 142 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19)

acoustic elements
up to absorption class A
available as B-s1, d0

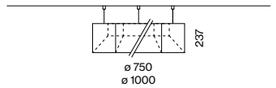
Types

luminaires





acoustic absorber



Luminaire colours

standard xal.com/colours

Acoustic colours

standard xal.com/acoustic-colours

Light distribution

direct

DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

tunable white
2700 – 6500 K

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

LUMINAIRE COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours* p. 992	X

*canopy in white or black

ACOUSTIC COLOUR

white	W
marble grey	D
felt grey	G
black	L
special colours p. 992	X

LIGHT OPTIC COVER

opal	O
microprismatic (UGR ≤ 19)	P

Options on request

COLOUR RENDERING INDEX

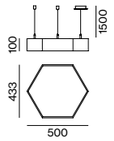
CRI ≥ 90

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

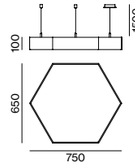


HEX-O 500 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

SINGLE MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16.3 W	3000 K	2160 lm	073-625 1 ⁚ 3 ◪ ■
	4000 K	2290 lm	

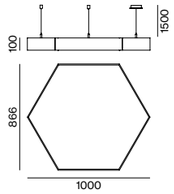


HEX-O 750 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

SINGLE MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
35 W	3000 K	4680 lm	073-626 1 ⁚ 3 ◪ ■
	4000 K	4960 lm	



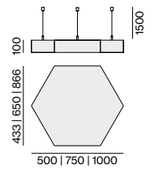
HEX-O 1000 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

SINGLE MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68 W	3000 K	9110 lm	073-627 1 ⁚ 3 ◪ ■
	4000 K	9640 lm	

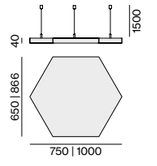
Acoustic elements



HEX-O MODULE suspended

SINGLE MOUNTING

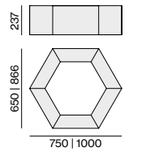
TYPE	ORDER CODE
MODULE 500 suspended	073-692510 ■
MODULE 750 suspended	073-692610 ■
MODULE 1000 suspended	073-692710 ■



HEX-O MODULE FLAT suspended

SINGLE MOUNTING

TYPE	ORDER CODE
MODULE FLAT 750 suspended	073-692620 ■
MODULE FLAT 1000 suspended	073-692720 ■



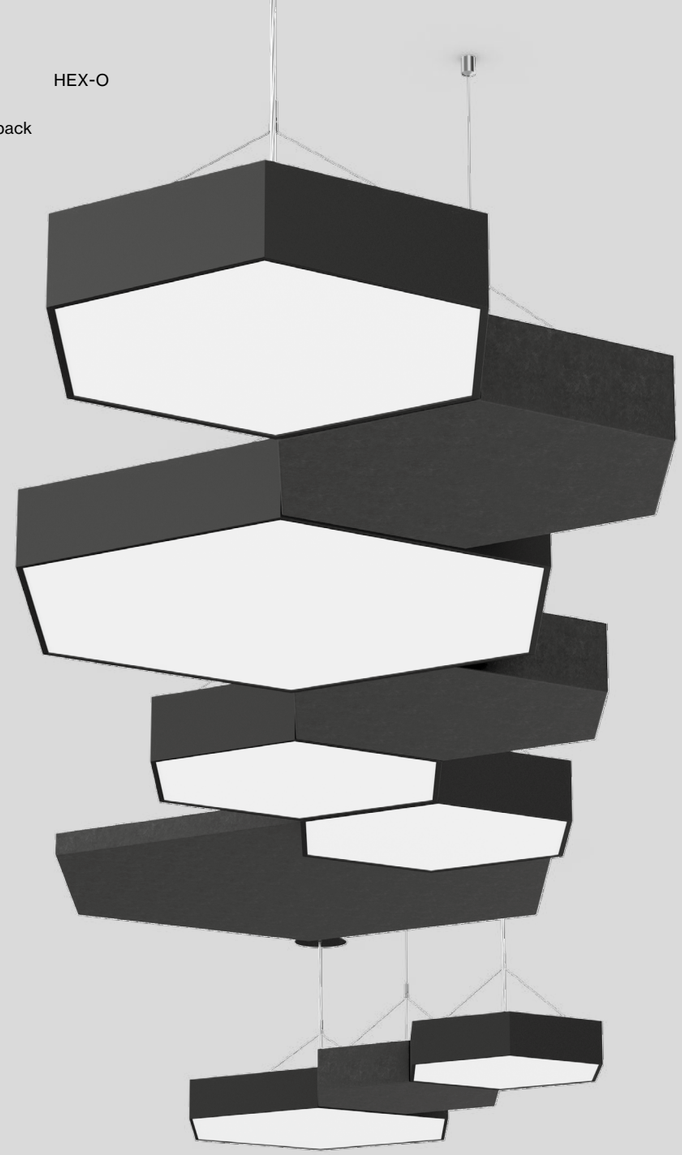
HEX-O ABSORBER

SINGLE MOUNTING

TYPE	ORDER CODE
ABSORBER 750*	073-691640 ■
ABSORBER 1000**	073-691740 ■

*only in combination with HEX-O 500 or MODULE 500
**only in combination with HEX-O 750, MODULE 750 or FLAT 750

back



HEX-O

suspended (group mounted)

EN Hexagonal luminaires & acoustic elements; suitable for group installation; pendant fitting with cable suspension (1 cable); height adjustment without tools; rear rail for alignment; light housing from extruded aluminium profile, seamlessly welded; powder coated; same luminance for all size versions; energy-efficient LEDs with very good colour rendering; transparent feed, canopy for through wiring (separately available); acoustic element made of high-quality, recycled PET felt: MODULE in the luminaires' dimensions, FLAT with reduced height, ABSORBER to combine with other housings; improvement of room acoustics (absorption & scattering of sound waves)

ES Luminarias & elementos acústicos hexagonales; aptos para el montaje en grupo; suspendido con cable (1 cable); altura regulable sin herramientas; carril en parte trasera para alin.; cuerpo luminoso de perfil de aluminio extrusionado, sin costuras de soldadura; recubierto de polvo; luminancia idéntica en todos los tamaños; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; cable de alimentación transparente, baldaquino para cableado pasante (debe encargarse por separado); elementos acústicos de fieltro PET reciclado de alta calidad: MODULE en las medidas de las luminarias, FLAT de altura reducida, ABSORBER para la combinación con otros elementos o luminarias; mejora de la acústica de la sala (absorción y difusión del sonido)

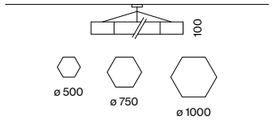
Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 142 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19)

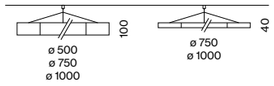
acoustic elements
up to absorption class A
available as B-s1, d0

Types

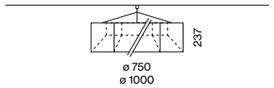
luminaires



acoustic module | acoustic module flat



acoustic absorber



Luminaire colours

standard | xal.com/colours

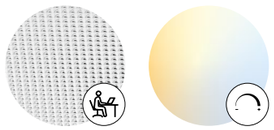
Acoustic colours

standard | xal.com/acoustic-colours

Light distribution

direct

DiiA® standards
251, 252, 253



DIN EN 12464-1
UGR ≤ 19

tunable white
2700 – 6500 K

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

LUMINAIRE COLOUR

pure white RAL 9010	7
jet black RAL 9005	8
special colours* p. 992	X

*canopy in white or black; not for power feeder

ACOUSTIC COLOUR

white	W
marble grey	D
felt grey	G
black	L
special colours p. 992	X

LIGHT OPTIC COVER

opal	O
microprismatic (UGR ≤ 19)	P

Options on request

COLOUR RENDERING INDEX

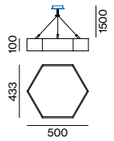
CRI ≥ 90

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

DALI-2 DT8

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

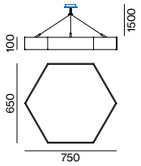


HEX-O 500 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

GROUP MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
16.3 W	3000 K	2160 lm	073-635 1 ⁘ 3 ◪ ■
	4000 K	2290 lm	

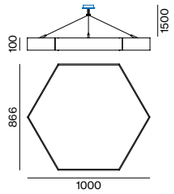


HEX-O 750 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

GROUP MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
35 W	3000 K	4680 lm	073-636 1 ⁘ 3 ◪ ■
	4000 K	4960 lm	



HEX-O 1000 suspended

UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

GROUP MOUNTING

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
68 W	3000 K	9110 lm	073-637 1 ⁘ 3 ◪ ■
	4000 K	9640 lm	

Electrical accessories

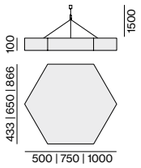
CANOPY

TYPE	L (mm)	ORDER CODE
canopy / feeder cable 5 × 1.5 mm²	1500	005-223241 ◪

one per group needed; can be placed above luminaires or acoustic elements
for electrical system configuration see luminaire data sheet at xal.com

Acoustic elements

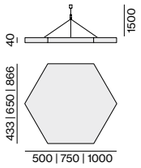
HEX-O MODULE suspended



GROUP MOUNTING

TYPE	ORDER CODE
MODULE 500 suspended	073-693510 ■
MODULE 750 suspended	073-693610 ■
MODULE 1000 suspended	073-693710 ■

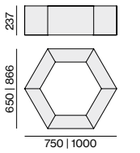
HEX-O MODULE FLAT suspended



GROUP MOUNTING

TYPE	ORDER CODE
MODULE FLAT 750 suspended	073-693620 ■
MODULE FLAT 1000 suspended	073-693720 ■

HEX-O ABSORBER



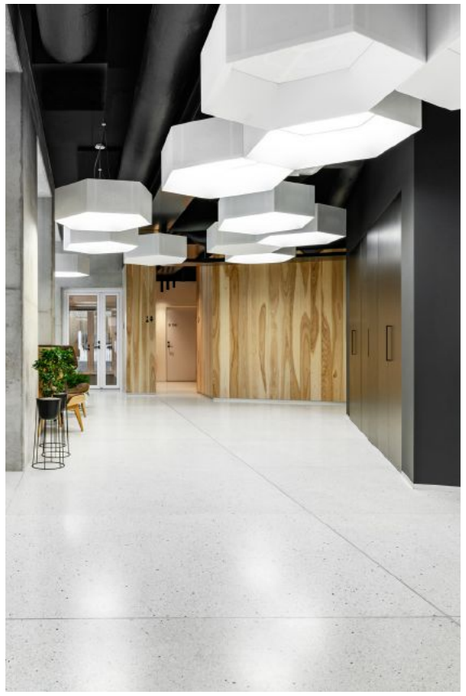
GROUP MOUNTING

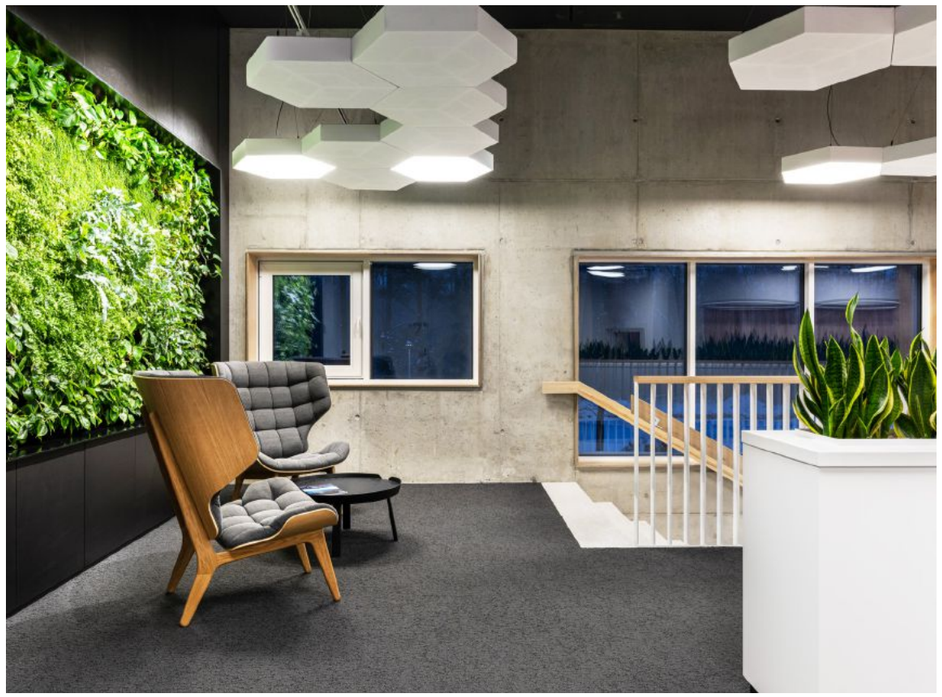
TYPE	ORDER CODE
ABSORBER 750*	073-691640 ■
ABSORBER 1000**	073-691740 ■

*only in combination with HEX-O 500 or MODULE 500
**only in combination with HEX-O 750, MODULE 750 or FLAT 750

OLX GROUP Poznán, PL –
by Trzop Architekci with
lighting design by Pluslighting

EANS Flight Control Centre
Harju Grafschaft, EE –
by KAMP Arhitektid





The sound of stress-free work

MUSE

EN We developed MUSE for holistic office lighting and acoustic concepts. All of the three-part product family's elements optimise room acoustics. The two luminous versions create standard-compliant, screen-friendly workplace lighting per UGR ≤ 19 thanks to high-quality reflectors with faceted optics. Its characteristic design language, different colours, and the haptically appealing surface make MUSE a confident design element in the office.

ES Con MUSE, hemos creado una solución integral de iluminación y acústica para oficinas. Todos los elementos de esta familia de productos de cinco componentes optimizan la acústica ambiental de manera eficaz, y las dos variantes luminosas ofrecen, gracias a sus reflectores de alta calidad con óptica facetada, una iluminación de puestos de trabajo apta para la visualización de pantallas y adaptada a la normativa con un índice UGR ≤ 19. Con su característico lenguaje de formas, sus diversos colores y su superficie de tacto agradable, MUSE es además un eficaz elemento de diseño para la oficina.

Types

MUSE double light acoustic suspended

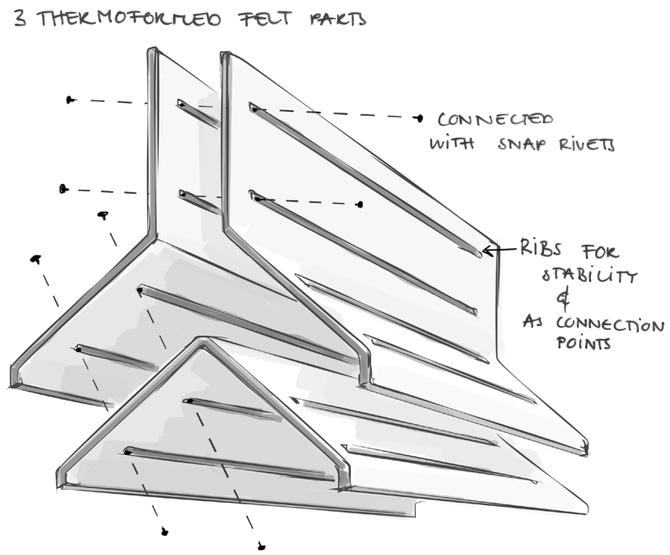
MUSE light acoustic suspended

MUSE baffle acoustic suspended

Light and sound for offices

EN Light and acoustics are the most critical factors influencing well-being at work. A quiet working environment boosts concentration and enhances the enjoyment of work and productivity. That is why XAL developed the three-part MUSE system in response to the most significant challenges of modern office environments.

ES La luz y el sonido son los factores que más influyen en nuestro bienestar en el puesto de trabajo: un entorno laboral tranquilo ayuda a la concentración y fomenta la productividad y la satisfacción en el trabajo. Por eso, XAL ha creado el sistema MUSE de cinco elementos, que hace frente a los retos más importantes planteados por los modernos espacios de oficinas.

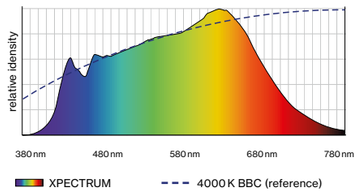


Full-spectrum LED

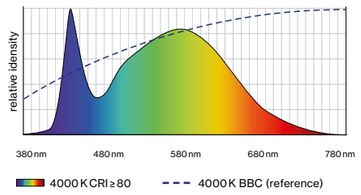
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 $R_f = 98$ and $R_g = 101$ further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices $R_f = 98$ y $R_g = 101$ según la norma IES TM-30-15– garantiza una mayor comodidad visual.

XPECTRUM LED



Commercially available LED 4000 K



Second life for PET bottles

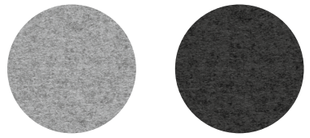
EN The MUSE acoustic elements' felt-like material is made of 50 % recycled PET. Pressed precisely into shape, it combines three advantages. It is inherently stable, acoustically highly effective, and has a visually and haptically inspiring surface. This is how MUSE creates a pleasant atmosphere while taking its environmental responsibility seriously.

ES El material afieltrado de los elementos acústicos MUSE se fabrica hasta en un 50 % de PET reciclado. Prensado en su forma específica con precisión, el material reúne tres grandes ventajas: posee estabilidad propia, ofrece un elevado rendimiento acústico y cuenta con una superficie visual y táctilmente atractiva. Así, MUSE crea una atmósfera agradable a la vez que mantiene un nivel elevado de responsabilidad medioambiental.

Colour variety

EN What kind of office should be equipped with MUSE? With two neutral shades and two accent colours, MUSE can be integrated into any furnishing concept whether classically understated or hip and unconventional.

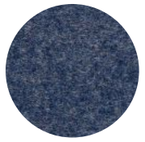
ES ¿ Qué tipo de oficina debe equiparse con MUSE? Desde estilos clásicos y elegantes hasta los más modernos y poco convencionales, MUSE se integra en cualquier esquema de diseño con dos colores neutrales y una tonalidad de acentuación.



felt grey

anthracite

bright blue



indigo blue

Screen-work friendly

EN MUSE has been optimised for computer workstations. Thanks to glare-free reflectors, the luminaires achieve a UGR ≤ 19 value, creating a pleasantly bright working environment without glare.

ES MUSE se ha optimizado especialmente para puestos de trabajo. Gracias a sus reflectores antideslumbrantes, las luminarias alcanzan un índice UGR ≤ 19, lo que genera un entorno de trabajo agradable y exento de deslumbramiento.

Acoustic planning by XAL

EN Acoustic spatial planning calculates, measures, or simulates the behaviour of sound in a room. This planning includes, in particular, reverberation time and speech intelligibility. We create a bespoke concept from the results. Through close coordination with contracting planners and customers, we can achieve the optimum balance between light, ambience, and spatial acoustic conditions.

ES En la planificación acústica de espacios, calculamos, medimos y simulamos el comportamiento del sonido en el espacio con parámetros tales como el periodo de reverberación y la inteligibilidad de la voz, entre otros. Partiendo de los resultados obtenidos, elaboramos un esquema personalizado. Una coordinación precisa con proyectistas y clientes nos permite lograr un equilibrio óptimo entre la luz, el ambiente y las condiciones acústicas espaciales.

MUSE double light

acoustic suspended

EN Luminaire body made of high-quality, self-supporting, recycled PET felt with sound absorbing properties; high-quality visual and tactile surface; constructed of 2 shells to form cavities that improve acoustic performance; large sound absorbing surface; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; optimised for the illumination of 2 office workstations opposite each other; incl. transparent feed; light inset made from extruded profile for improved thermal management; high-gloss reflector with faceted design; energy-efficient LEDs with very good colour rendering

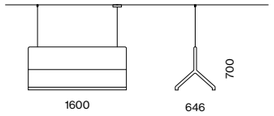
ES Cuerpo luminoso de fieltro PET reciclado y autoportante de calidad superior con propiedades de absorción del sonido; superficie de gran calidad óptica y táctil; estructura de dos cuencos, así se generan huecos para mejorar el rendimiento acústico; superficie de absorción sonora grande; suspendido con cable; regulación de la altura sin necesitar herramientas; optimizado para iluminación de 2 puestos de oficina uno frente al otro; incluido cable de alimentación transparente; inserto luminoso de perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 108 lm/W
L90 @ 50 000 h
DALI-2
reflector (UGR ≤ 19)

PET felt
♻ from recycled material
up to absorber class A

Type



Colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

anthracite	B
felt grey	G
bright blue	P
indigo blue	E

canopy always in white
other colours on request

LIGHT INSET COLOUR

grey cover / chrome reflector

Options on request

COLOUR RENDERING INDEX

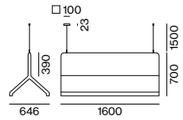
CRI ≥ 98 XPECTRUM

CONTROL

brightness & presence sensor

LIGHT INSET COLOUR

black cover / black reflector
white cover / chrome reflector
black cover / chrome reflector



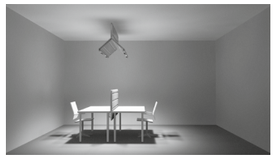
MUSE DOUBLE LIGHT suspended

UGR ≤19 | cd/m² ≤1500 | DALI 1 ADDR. | 220-240V | PET felt | X-PERT

ACOUSTIC LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
41 W	3000 K	4160 lm	1600	0 9 1 - 1 2 2 1 5 3 F
	4000 K	4400 lm		

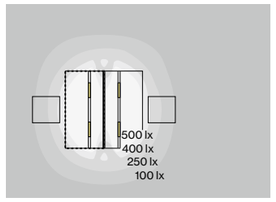
Lighting calculation



MUSE DOUBLE LIGHT
41 W direct, 4000 K, chrome reflector

ROOM VALUES

Room dimensions	5.4 × 4 × 3 m
Room volume	64.8 m²
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.23 m



CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

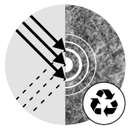
≥ 65° ≤ 1500 cd/m²

Data Monitoring

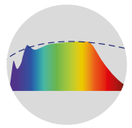
DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

suitable for double workstation

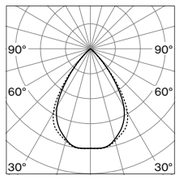


sound absorption by recycled PET



CRI ≥ 98 XPECTRUM

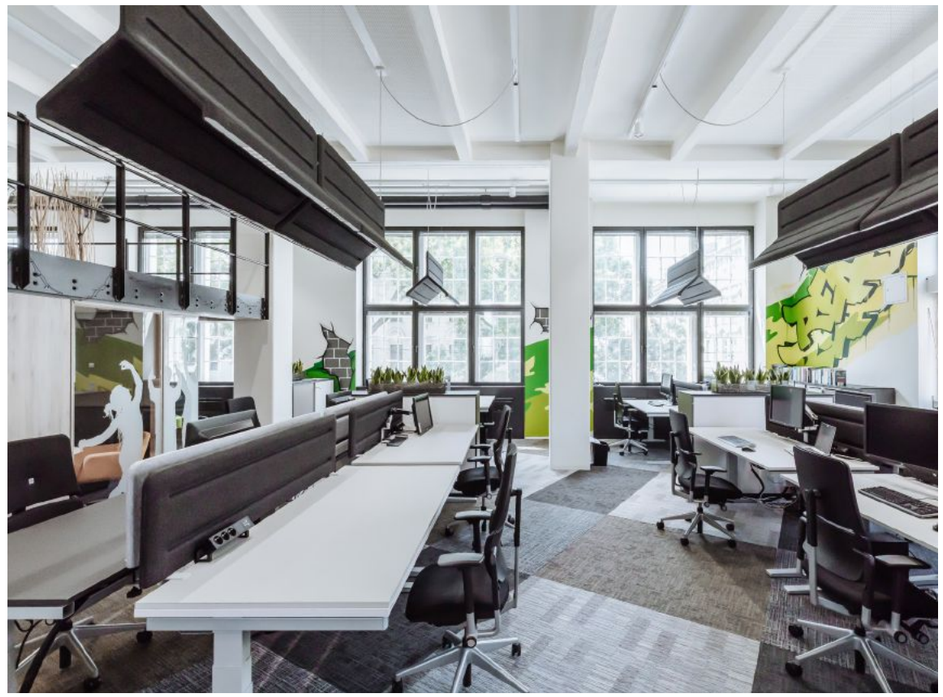
Light distribution



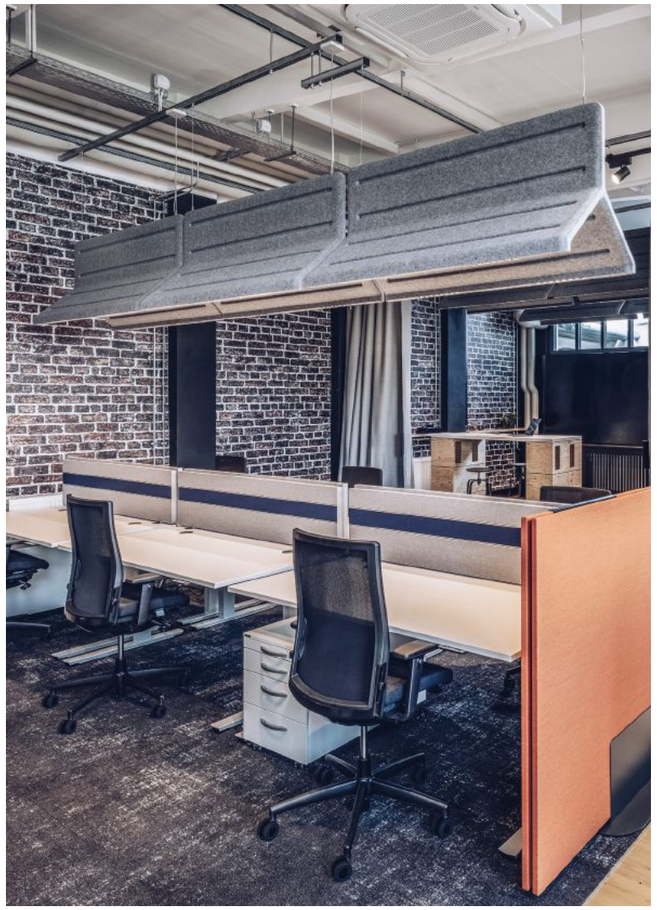
chrome reflector
direct

LUMINOUS FLUX value calculated for CRI ≥ 80, cover grey, reflector chrome

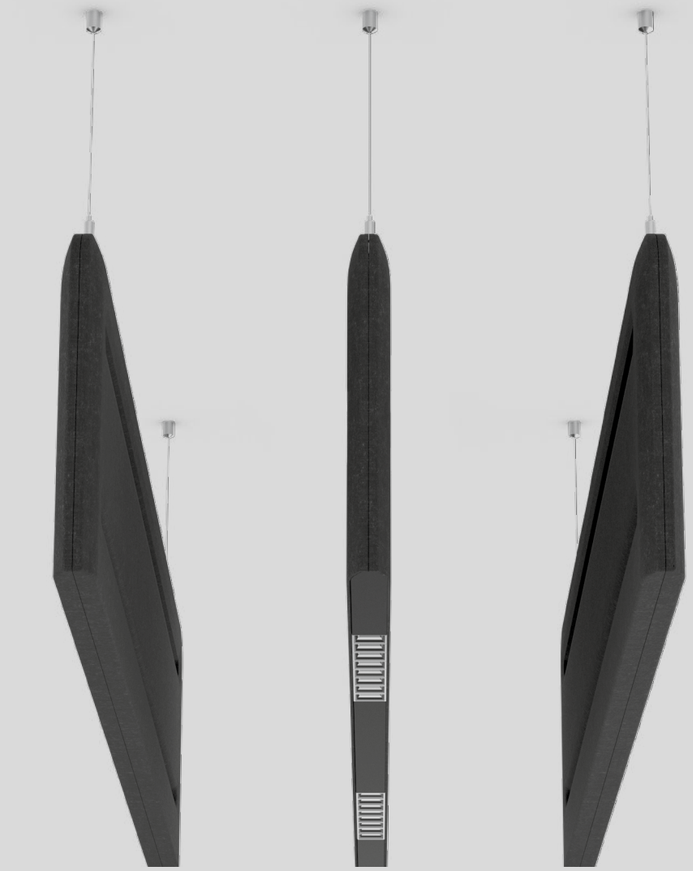
Inter-pool Immobilien Vienna, AT –
by Inter-pool Immobilien GmbH /
Architekt DI Stephan Kopinits including lighting design



Vogel Corporate Solutions GmbH
Würzburg, DE – by Dipl. Ing. FH
Katharina Maatz/ designfunktion
Aschaffenburg GmbH



back



reddot award 2019
winner

MUSE light / baffle

acoustic suspended

EN Luminaire body or acoustic element made of high-quality, self-supporting, recycled PET felt with sound absorbing properties; high-quality visual and tactile surface; constructed of 2 shells to form cavities that improve acoustic performance; large sound absorbing surface; pendant fitting with cable suspension; tool-less suspension height adjustment of the luminaire or of the acoustic element; MUSE LIGHT: optimised for the illumination of office workstations; incl. transparent feed; light inset made from extruded profile for improved thermal management; high-gloss reflector with faceted design; energy-efficient LEDs with very good colour rendering

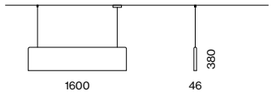
ES Cuerpo luminoso y elemento acústico de fieltro PET reciclado y autoportante de calidad superior con propiedades de absorción del sonido; superficie de gran calidad óptica y táctil; estructura de dos cuencos, así se generan huecos para mejorar el rendimiento acústico; superficie de absorción sonora grande; suspendido con cable; ajuste de altura sin herramienta de la luminaria y del elemento acústico; MUSE LIGHT: optimizado para iluminación de 2 puestos de oficina; incluido cable de alimentación transparente; inserto luminoso de perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 109 lm/W
L90 @ 50 000 h
DALI-2
reflector (UGR ≤ 19)

PET felt
♻ from recycled material
up to absorber class A

Type



Colours

Light distribution

direct

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

anthracite	B
felt grey	G
bright blue	P
indigo blue	E

canopy always in white
other colours on request

LIGHT INSET COLOUR

grey cover / chrome reflector

Options on request

COLOUR RENDERING INDEX

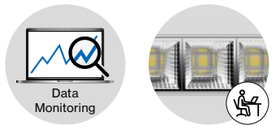
CRI ≥ 98 XPECTRUM

CONTROL

brightness & presence sensor

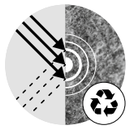
LIGHT INSET COLOUR

black cover / black reflector
white cover / chrome reflector
black cover / chrome reflector

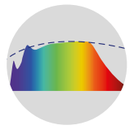


DiiA® standards
251, 252, 253

DIN EN 12464-1
UGR ≤ 19

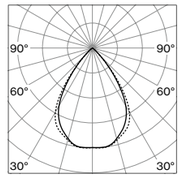


sound absorption
by recycled PET



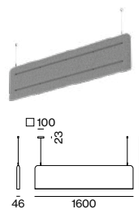
CRI ≥ 98
XPECTRUM

Light distribution



chrome reflector
direct

LUMINOUS FLUX value calculated for CRI ≥ 80, cover grey, reflector chrome

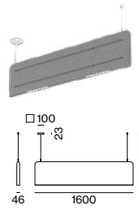


MUSE BAFFLE suspended

PET felt

ACOUSTIC BAFFLE

L (mm)	ORDER CODE
1600	091-101111



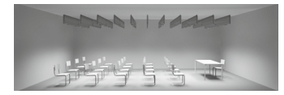
MUSE LIGHT suspended

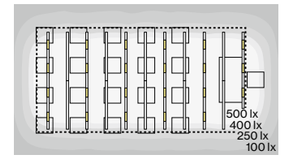
UGR ≤19 | cd/m² ≤1500 | DALI 1 ADDR. | 220-240V | PET felt | X-PERT

ACOUSTIC LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20 W	3000 K	2080 lm	1600	091-1211 3 F
	4000 K	2200 lm		

Lighting calculation





MUSE LIGHT
20 W direct, 4000 K, chrome reflector
+ MUSE BAFFLE (every 2nd)

ROOM VALUES

Room dimensions	9 × 5 × 3 m
Room volume	135 m²
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.23 m

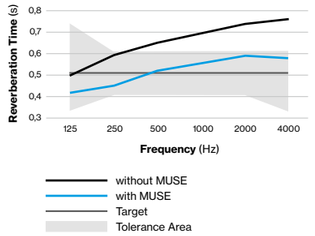
CALCULATION SURFACE

Surface dimensions	8 × 4
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H	
UGR transversal	≤ 19
UGR axial	≤ 19
≥ 65° ≤ 1500 cd/m²	

Acoustic calculation



ACOUSTIC PARAMETERS

Target Reverberation Time	0.51 s*
RT without MUSE	0.66 s
RT with MUSE	0.52 s

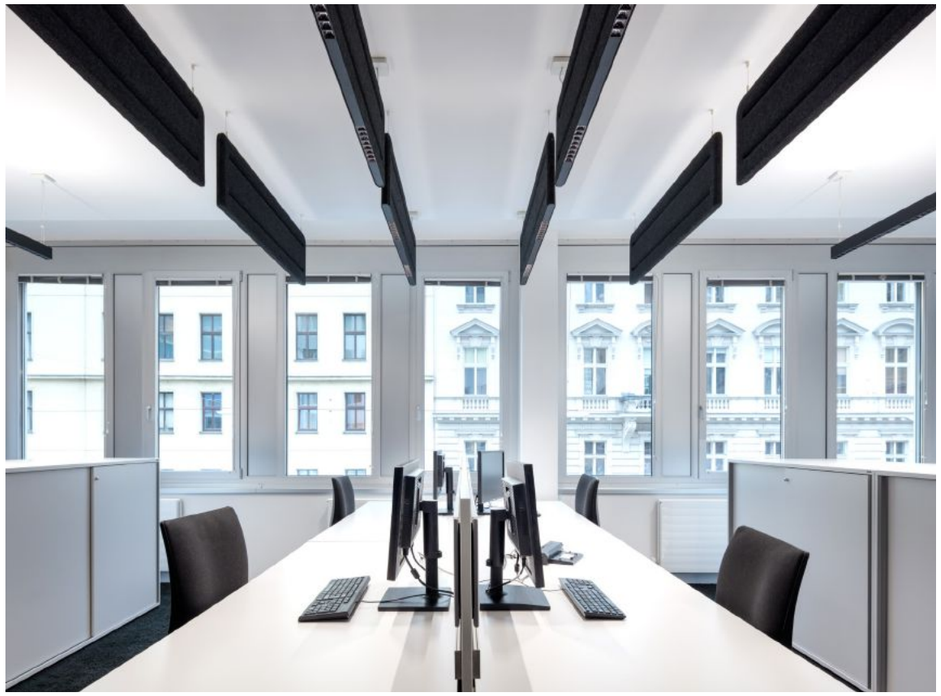
*according to DIN 18041, room category A3 (education/communication)

MATERIALS

Walls	Hardboard
Ceiling	Gypsum Board
Floor	Hardwood

Art-Invest Berlin, DE –
by LEPEL & LEPEL Architekt

XAL Office
Vienna, AT



For the right kind of reflection

STRETTA

EN Whether in the bathroom or in the fitting room, STRETTA is a fantastic exclusive mirror luminaire. Thanks to its excellent colour rendering of CRI ≥ 90, it is used wherever colours, shapes, and designs are to be shown in their best and authentic light. STRETTA emits light on three sides and has been equipped with an opal cover to guarantee particularly homogeneous wall illumination. The IP 44 protection class ensures safe use in wet rooms.

ES Tanto en cuartos de baño como en probadores de ropa o vestidores, STRETTA seduce como luminaria de espejo exclusiva. Su buena reproducción cromática con un índice CRI ≥ 90 hace que pueda utilizarse allí donde colores, formas y diseños deban percibirse con autenticidad. Para hacer posible una iluminación de la pared especialmente homogénea, STRETTA proyecta la luz por tres lados y está dotada de un difusor opal. El grado de protección IP 44 garantiza un uso seguro en salas con ambiente de alta humedad.

Mountings

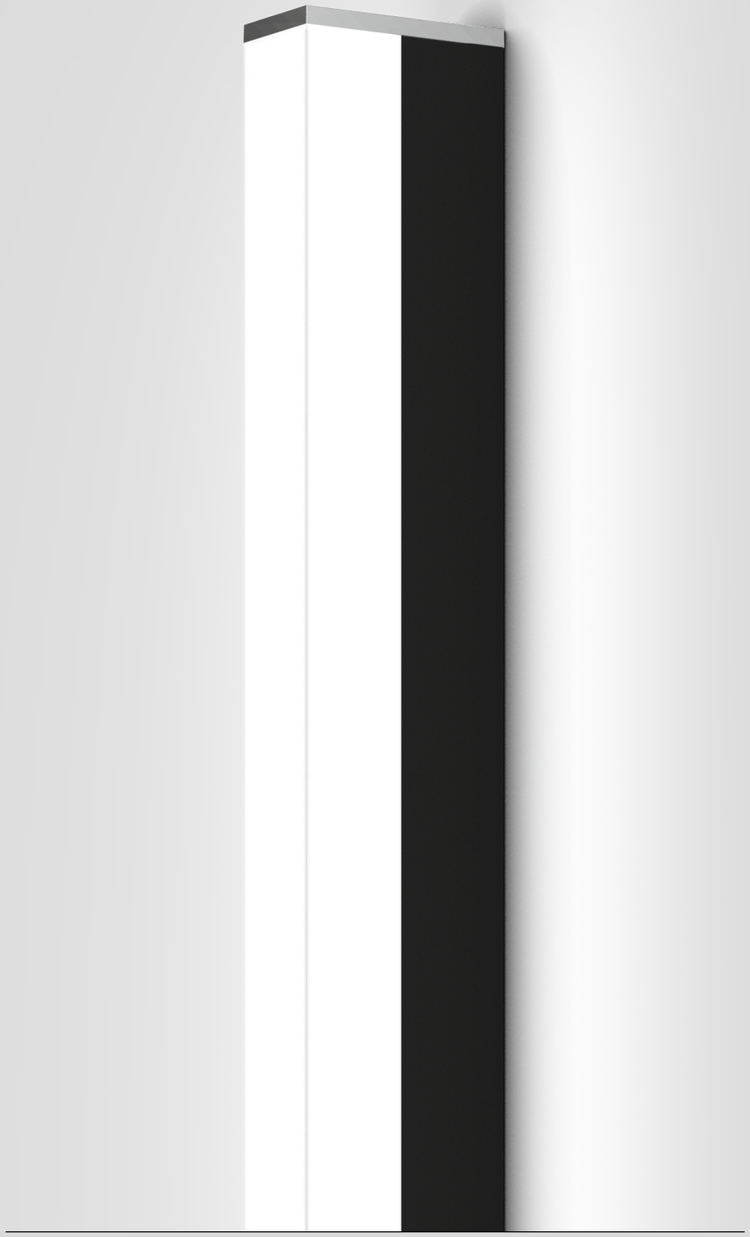
wall

ceiling

Light distribution

opal

back



STRETTA

surface

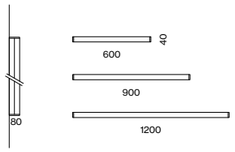
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile can be pre-mounted; end cap galvanically chromed or in same colour as housing (chromed border); suitable for wall or ceiling mounting; with three sided light beam; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering

ES Perfil de aluminio extrusionado, versión angulosa; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; perfil de luminaria premontable; tapa terminal en cromado galvánico o con recubrimiento de polvo en el color de la luminaria (borde cromado); apropiada para montaje en techo y paredes; con proyección de luz por tres lados; tapa HPO (High Performance Opal) para iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 112 lm / W
L80 @ 50 000 h
non DIM, DALI-2
opal cover
IP 44

Types



Luminaire colours

End caps colours

Light distribution

direct
3-sided

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

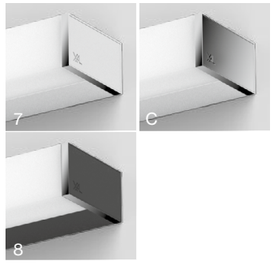
CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010*	7
○ pure white / ◐ chrome**	C
● jet black RAL 9005*	8

*end caps in housing colour with chromed boarder
**end caps completely in chrome



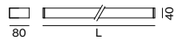
LIGHT OPTIC COVER

opal high performance

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

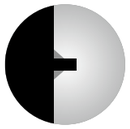


STRETTA surface

CRI ≥ 90 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | IP 44 | X-PERT

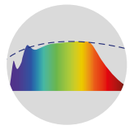
LUMINAIRE

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	3000 K	1370 lm	600	057-0132 H
	4000 K	1460 lm		
19.5 W	3000 K	2050 lm	900	057-0133 H
	4000 K	2190 lm		
26.1 W	3000 K	2740 lm	1200	057-0134 H
	4000 K	2920 lm		



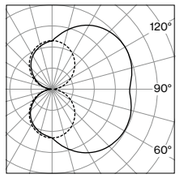
wall
illumination

splash water
protection (IP 44)



CRI ≥ 98
XPECTRUM

Light distribution



opal high performance

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

Private Residence
Visualisation

Sharpen your edges

CORNER

EN The best wall light is right around the CORNER. It is preferred for ceiling edges or wall corners and is mainly used in staircases, reception halls, or corridors. Wall and ceiling are equally well illuminated by the CORNER single luminaire thanks to the light insert with opal cover. The bidirectional beam pattern delivers ambient lighting. CORNER is available in the light colours 3000 K or Tunable White and two different power levels. CORNER comes in different lengths and in white, grey, and black.

ES Con CORNER, la mejor iluminación de pared está a la vuelta de la esquina. Esta se utiliza preferentemente en bordes de techo o esquinas de pared, sobre todo en escaleras, vestíbulos y pasillos. La pared y el techo son iluminadas de forma óptima y uniforme con la luminaria individual CORNER y el inserto luminoso con difusor opal. El modo de proyección bilateral garantiza un alumbrado general homogéneo. CORNER está disponible en una temperatura de color de 3000 K o Tunable White y en dos niveles de potencia distintos. CORNER se suministra en diferentes longitudes y en los colores blanco, gris y negro.

Mountings

wall ceiling

Light distribution

opal

back

CORNER

surface

EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile for mounting available in advance; suitable for wall or ceiling mounting; with double-sided light beam; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering

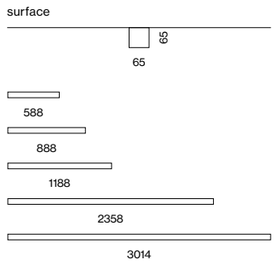
ES Perfil de aluminio extrusionado, versión angulosa; sin tornillos visibles; superficie con recubrimiento de pintura en polvo; Perfil de lámpara para montaje disponible prev.; apropiada para montaje en techo y paredes; con proyección de luz por ambos lados; tapa HPO (High Performance Opal) para iluminación homogénea; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K
CRI ≥ 80, 3 SDCM
up to 131 lm/W
L90 @ 50 000 h
non DIM
opal

Types

surface



Colours

Light distribution

direct

wall / ceiling illumination

tunable white 2700 – 5000 K

Order options

COLOUR TEMPERATURE
3000 K

CONTROL
non DIM

MATERIAL COLOUR
- pure white RAL 9010 — 7
- white aluminium RAL 9006 — G
- jet black RAL 9005 — 8

LIGHT OPTIC COVER
opal high performance

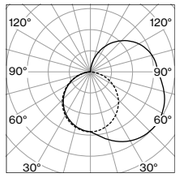
Options on request

SYSTEM SOLUTION
installation channel, etc.

COLOUR TEMPERATURE
4000 K
tunable white 2700 – 6500 K*
*DALI-2 DT8

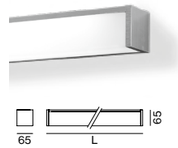
CONTROL
DALI-2

Light distribution



asymmetric

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal



CORNER surface

RG 0 IEC 62471 · 220-240V · X-PERT · X-PERT

MID LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13.8 W	3000 K	1810 lm	588	040-895251 O
20.7 W	3000 K	2720 lm	888	040-895351 O
27.6 W	3000 K	3620 lm	1188	040-895451 O
55 W	3000 K	7250 lm	2358	040-895851 O
81 W	3000 K	9830 lm	3014	040-895951 O

HIGH LUMEN

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
20.2 W	3000 K	2460 lm	588	040-896251 O
30 W	3000 K	3690 lm	888	040-896351 O
40 W	3000 K	4910 lm	1188	040-896451 O
71 W	3000 K	9340 lm	2358	040-896851 O
98 W	3000 K	12700 lm	3014	040-896951 O

Office Stadsbader
Harelbeke, BE

Getting well with light

RECOVER

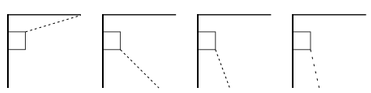
EN The next generation of contemporary healthcare lighting, RECOVER has been developed to simulate a natural light pattern. This is achieved by the dynamically changing colour temperature. It varies from activating morning light to a sleep-promoting evening glow. The luminaire supports the natural regeneration of the patient by supporting the human biorhythm. The 4-in-1 system includes ambient light, a reading light, a nurse's night light, and an examination light with a high CRI value that displays amorphous three-dimensional surfaces, such as the skin, correctly. RECOVER is designed to be particularly user-friendly. Lighting programmes can be quickly and flexibly adapted.

ES RECOVER ha sido especialmente diseñada para recrear la evolución natural de la luz. Esto se consigue mediante una temperatura de color dinámicamente cambiante, que varía desde una luz matinal vigorizante hasta una luz crepuscular que ayuda a conciliar el sueño. Como esta luz fomenta el biorritmo del cuerpo humano, la luminaria contribuye a la sanación natural del paciente. El sistema 4 en 1 consta de luz general, luz de lectura, luz de vigilia nocturna y una luz de reconocimiento con un elevado índice CRI para la perfecta representación tridimensional de superficies amorfas, tales como la piel. El manejo de RECOVER se ha hecho lo más sencillo posible, de modo que los programas de iluminación puedan adaptarse de un modo fácil y flexible.

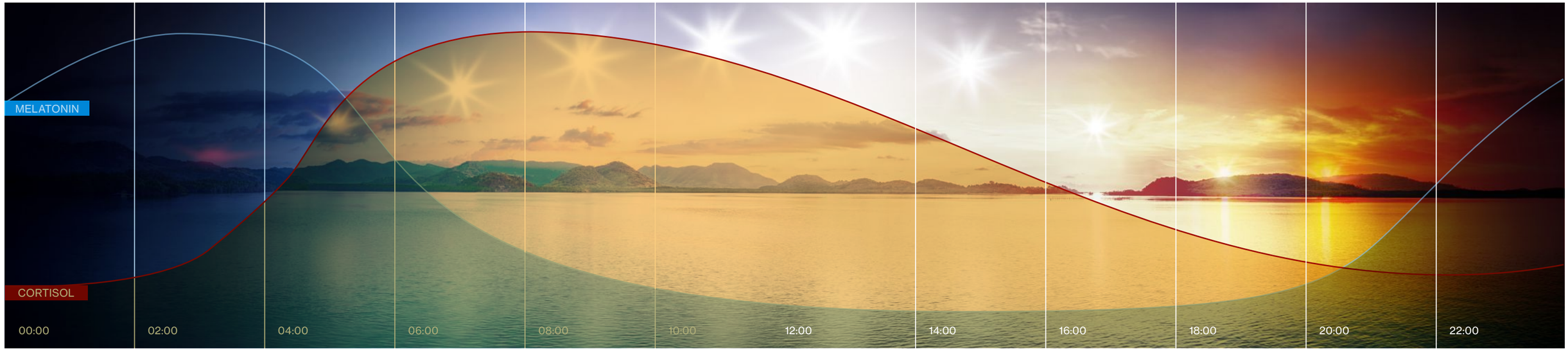
Mounting

wall

Light distributions



ambient light | examination light | reading light | nurse night light



Day-night rhythm

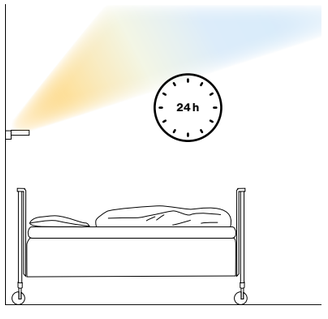
EN Light affects well-being and health. Cool morning light promotes cortisol, the activating hormone. In the evening, when the blue component is missing, the sleep hormone melatonin is formed. High melatonin levels at night lead to more restful sleep, and we enjoy a positive start to the day through an increased release of the happiness hormone serotonin. The RECOVER luminaire taps this knowledge and supports the natural regeneration of patients, as the high indirect illuminance provides clear impulses to the inner clock.

ES La luz influye en nuestra salud y bienestar. La fría luz matinal fomenta la generación de cortisol, una hormona estimulante. Y, por la noche, la falta de componentes de luz azul produce melatonina, la hormona del sueño. Si el nivel nocturno de melatonina es elevado, dormimos más relajadamente y nos levantamos con una sensación positiva debido a una mayor liberación de serotonina, la hormona de la felicidad. La luminaria RECOVER aprovecha este conocimiento y fomenta la regeneración natural de los pacientes, ya que la elevada intensidad luminosa indirecta establece una clara sincronización del reloj interno.

Schedule light moods

EN The aim was to make RECOVER particularly user-friendly. Lighting moods and intensity levels can be programmed with simple software. You can even string together several different programmes to form an annual schedule. The intensity and colour temperature change automatically with the season. The factory settings already store different daily sequences, which you can quickly adapt to your time requirements.

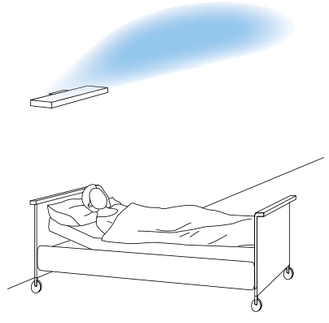
ES El objetivo era hacer que RECOVER fuera muy fácil de utilizar. Un sencillo software permite programar distintos ambientes lumínicos y grados de intensidad. Esto hace posible encadenar varios programas variables, e incluso combinarlos en un solo programa anual. La intensidad y la temperatura de color cambian automáticamente con la estación del año. Los ajustes de fábrica incluyen diversos programas diarios que pueden adaptarse fácilmente a los requisitos temporales.



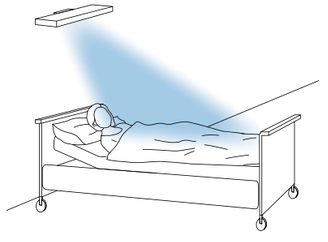
Four lights in one

EN RECOVER combines four luminaires. Indirect, homogeneous ceiling lighting provides daytime brightness for the patient, while the examination light is used for doctors' visits. A reading light ensures reflection-free illumination of the reading area. The nurse night light mounted on the side of the luminaire was integrated to avoid dazzling the patient at night.

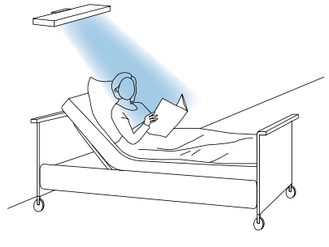
ES RECOVER combina cuatro luminarias: una iluminación de techo indirecta y homogénea transmite la luminosidad diurna al paciente, mientras que la luz de reconocimiento se utiliza para las visitas del personal sanitario. La luz de lectura garantiza un alumbrado completo del área de lectura sin ningún tipo de reflejos. La luz de vigilia nocturna montada lateralmente en la luminaria ha sido concebida para no deslumbrar al paciente por la noche.



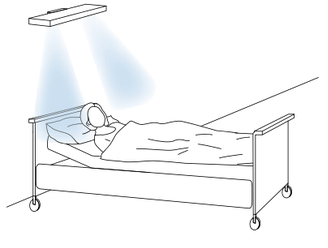
Ambient light



Examination light



Reading light



Nurse night light

CRI≥95

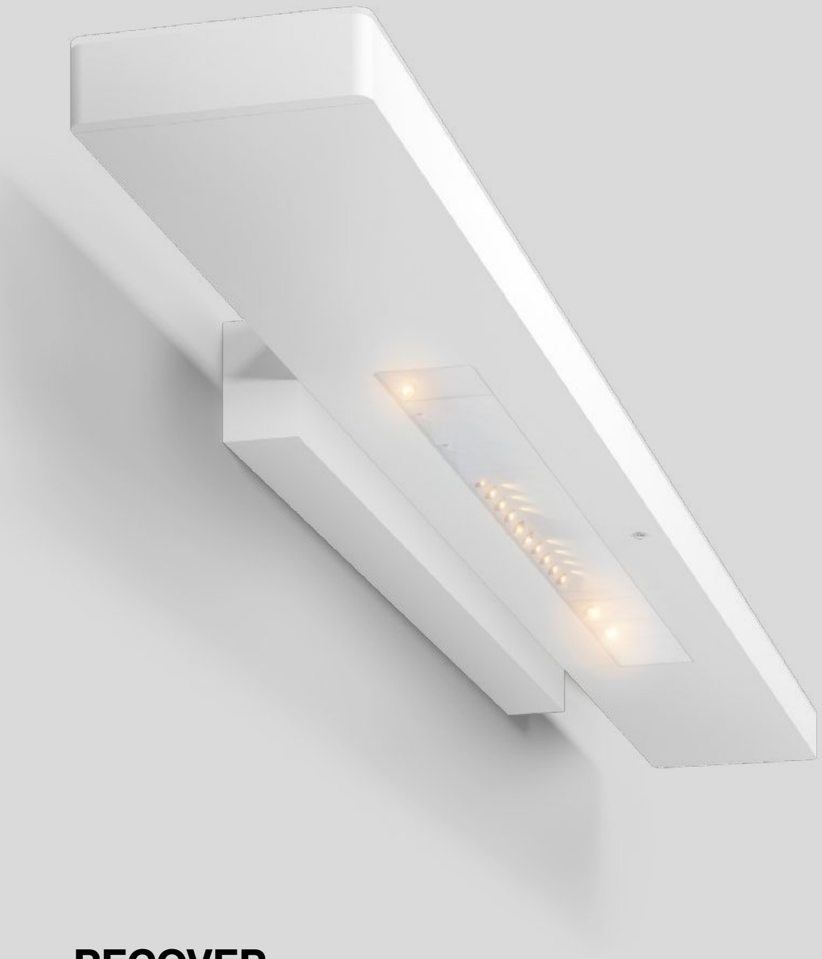
EN The RECOVER examination and reading light achieve excellent R_a and R_e values of ≥95. The unusually small luminous surface of the LED and the high luminance display amorphous three-dimensional surfaces, such as the skin, correctly.

ES Las luces de reconocimiento y lectura RECOVER consiguen unos excelentes índices R_a y R_e superiores a 95. La pequeñísima superficie luminosa de los LED y la elevada luminancia hacen posible una representación perfecta de superficies tridimensionales amorfas, tales como la piel.

typical CRI≥95

CRI≥80

back



RECOVER

wall

EN RECOVER is available in three versions:

RECOVER BASIC allows switching of the indirect ambient light, the examination light and the reading light.

RECOVER DALI allows individual dimming of the indirect ambient light, the examination light and the reading light.

RECOVER PRO allows for natural progressive lighting. Used in combination with the RECOVER Master Unit, four dynamic light transitions can be run. The four programs can be combined, through the RECOVER software, to form an annual light program. The examination light can be dimmed using the master unit, and the reading light can be switched in 2 stages. There are buttons built into the lamp to switch the two nurse night lights.

ES RECOVER está disponible en tres variantes:

RECOVER BASIC permite conmutar las luces ambiental indirecta, de reconocimiento y de lectura.

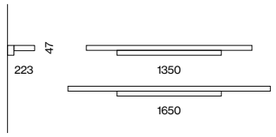
RECOVER DALI posibilita una atenuación individual de las luces ambiental indirecta, de reconocimiento y de lectura.

RECOVER PRO ofrece transiciones de luz similares a la naturaleza. Su uso con la Unidad Maestra RECOVER permite obtener 4 transiciones de luz dinámicas. Con el software RECOVER, los cuatro programas de luz pueden combinarse en un programa de iluminación anual. La luz de reconocimiento puede atenuarse con la Unidad Maestra y la de lectura ofrece una conmutación de 2 etapas. Las dos luces de vigilia se encienden y apagan con botones integrados en la propia luminaria.

Quickinfo

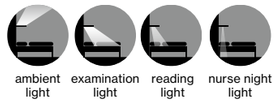
2200–31000 K, TW
CRI ≥ 95, 3 SDCM
up to 96 lm/W
L80 @ 50 000 h
glass cover
non DIM, DALI

Types



Colour

Light distributions



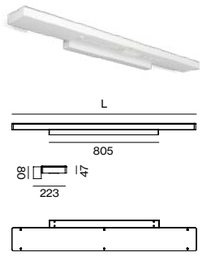
four in one light distribution

master unit

circadian light 2200–31000 K

MATERIAL COLOUR

○ pure white RAL 9010



RECOVER

CRI ≥ 95 | 220-240V

BASIC

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
108 W	3000 K	7870 lm	1350	099-2210517
127 W	3000 K	9380 lm	1650	099-2211517

CRI ≥ 95 | DALI 4 ADDR. | 220-240V

DALI

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
91 W	2700–6500 K*	8550 lm**	1350	099-2210D37
106 W	2700–6500 K*	10200 lm**	1650	099-2211D37

*examination and reading light 3000 K **measured at 6500 K

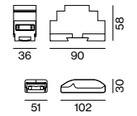
CRI ≥ 95 | DALI 8 ADDR. | 220-240V

PRO

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
198 W	2200–31000 K*	16900 lm**	1350	099-2210037
237 W	2200–31000 K*	20600 lm**	1650	099-2211037

*examination and reading light 3000 K, nurse night light 2200 K
**measured at 5000 K

Accessories for RECOVER DALI



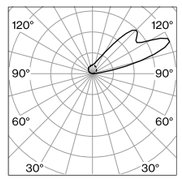
DALI POWER SUPPLY 220-240 V

TYPE	L-W-H (mm)	ORDER CODE
for top-hat-rail mounting 240 mA	90·36·58	002-59871
for ceiling insertion 200 mA	102·51·30	002-59880

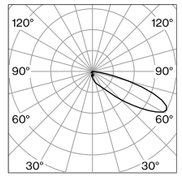
DALI MODULE for group/scene control

TYPE	L-W-H (mm)	ORDER CODE
DALI control of 4 scenes/2 groups	48·28·15	002-54026

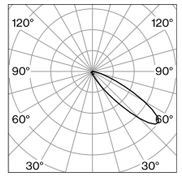
Light distributions



ambient light

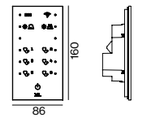


examination light



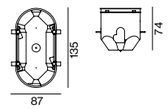
reading light

Accessories for RECOVER DALI / PRO



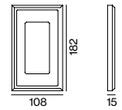
MASTER UNIT (DALI optional / PRO mandatory)

TYPE	L-W-H (mm)	ORDER CODE
single patient room	85·48·160	099-2291137
double patient room	85·48·160	099-2291237
three patient room	85·48·160	099-2291337
four patient room	85·48·160	099-2291437
five patient room	85·48·160	099-2291537
six patient room	85·48·160	099-2291637



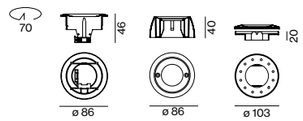
INSTALLATION HOUSING (mandatory for MASTER UNIT)
for installation in solid walls

TYPE	L-W-H (mm)	ORDER CODE
installation housing	71·75·135	099-2290000



SAFETY FRAME FOR MASTER UNIT (optional)

TYPE	L-W-H (mm)	ORDER CODE
safety frame	108·15·182	099-2298007



LIGHT SENSOR / MOTION DETECTOR DALI, PRO (optional)

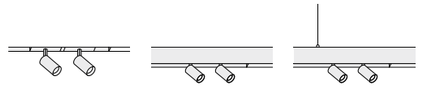
TYPE	ORDER CODE
recessed ceiling mounted	002-54051
surface mounted	002-54058
socket mounted	002-54053

EMCO private clinic
Bad Dürrnberg/Salzburg, AT –
by FLEOS architektur with
lighting design by Das Licht

Systems

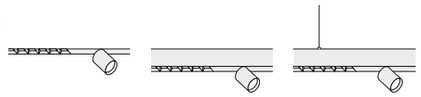
Systems

MOVE IT 25



694 recessed surface suspended

MOVE IT 45

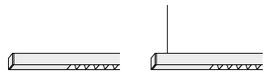


778 recessed surface suspended

TASK

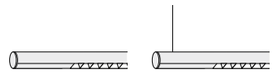
808 S suspended acoustic

BETO



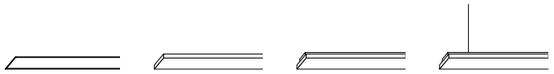
834 ceiling suspended

SETA



NEW 850 ceiling suspended

LENO



858 recessed semi-recessed surface suspended

MINIMAL

878 recessed

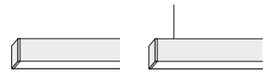
FRAME

888 recessed trim

CANYON

902 recessed offset

MINO

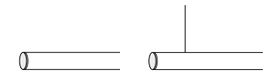


908 ceiling suspended

BASO

934 recessed surface

TUBO



NEW 948 surface suspended

LINEA

NEW 958 wall

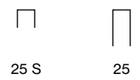
Everything on track

MOVE IT 25 system

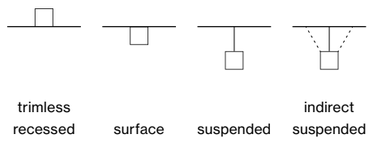
EN The sleek, elegant MOVE IT 25 system has revolutionised low-voltage track systems. The tool-free magnetic mounting of spotlights, decorative, or linear insets allows flexible, ever-new combinations. The various mounting options offer even more freedom: at two heights each, as trimless recessed and surface-mounted for wall or ceiling mounting, and suspended with a direct or direct / indirect light component. The individual profiles can be interconnected with each other, or linked via the CORNER, CURVE or NODE Connector elements. This allows for a variety of creative ceiling patterns. Square or triangular acoustic elements that can be optionally integrated additionally create balanced room acoustics.

ES Sencillo y elegante, el sistema MOVE IT 25 ha revolucionado los sistemas de carril de baja tensión: la fijación magnética y sin herramientas de proyectores y elementos decorativos o lineales ofrece posibilidades de combinación flexibles. Aun más libertad ofrecen las distintas versiones de montaje en dos alturas para el montaje empotrado o de superficie en pared o techo sin marco, o suspendido con luz directa o de luz directa / indirecta. Los distintos perfiles pueden conectarse unos con otros mediante los elementos CORNER, CURVE o NODE Connector. Esto hace posible patrones de techo creativos y variados. Unos elementos acústicos cuadrados o triangulares de integración opcional crean además una acústica ambiental óptima.

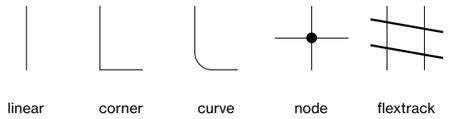
Types



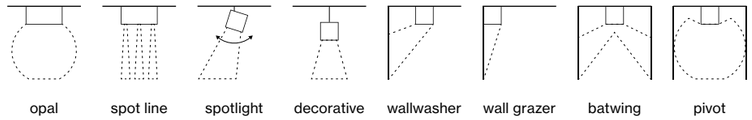
Mountings

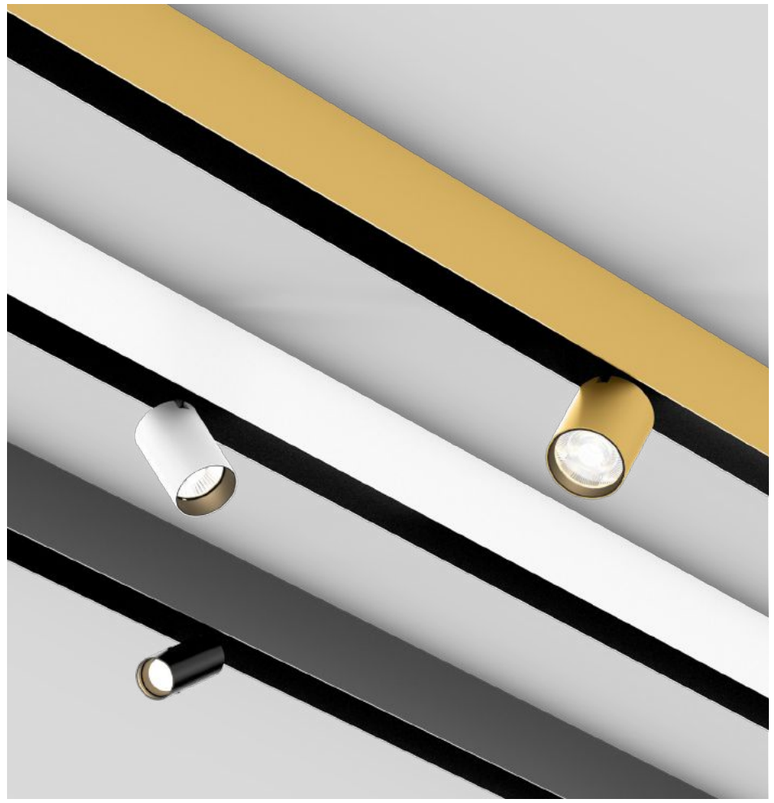


Configurations



Light distributions





Colour variety

EN MOVE IT profiles are available in the standard colours black, white, and gold. Further colour variations are also available, granting your project maximum design freedom. You can learn more about our colour palette at xal.com/colours.

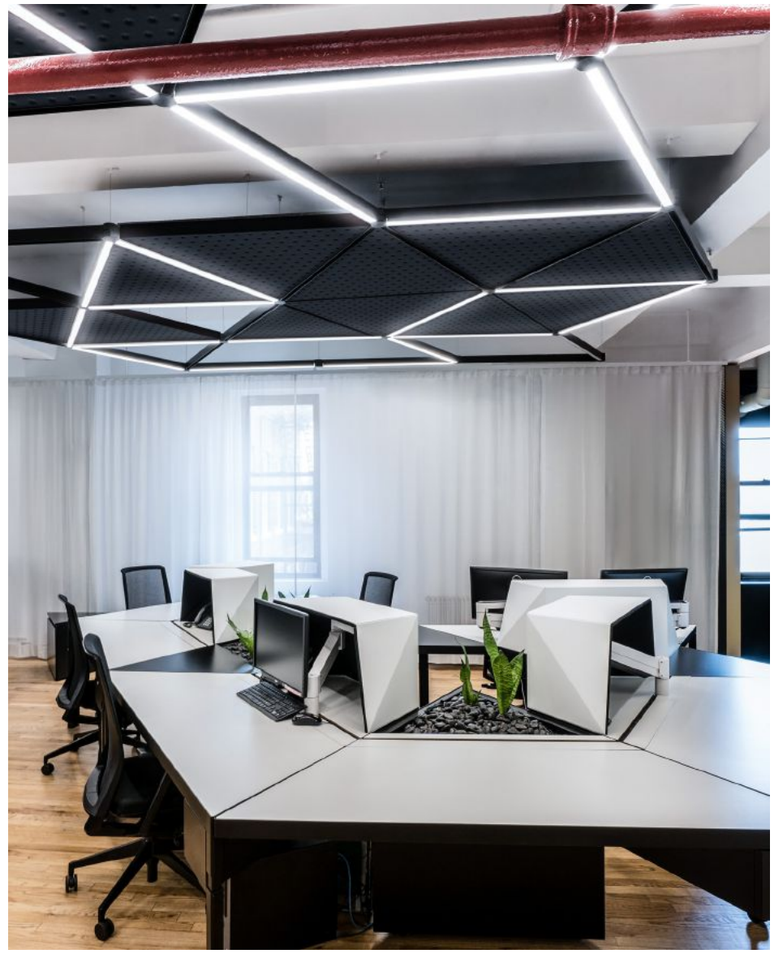
ES Los perfiles MOVE IT están disponibles en diversos colores estándar. Existe la posibilidad de utilizar una ámplia paleta de colores opcionales, lo que le proporciona la máxima libertad de diseño para su proyecto. Hallará más información sobre nuestra paleta de colores en xal.com/colours.

xal.com/colours

Individual grids & room acoustics

EN The NODE Connector lets you create different ceiling patterns from up to six MOVE IT 25 profiles per node. Attractive geometric shapes are created by connecting the profiles at a 60° or 90° angle. Create seamless 90° corners with a special corner connector. Simply extend the MOVE IT Suspended System with triangular and square acoustic elements for optimised room acoustics. Curved elements and special corner connectors that are rotated 35° to the left and right provide even more design freedom.

ES NODE Connector le permite crear distintos patrones de techo con hasta seis perfiles MOVE IT 25 por nodo. Conectando los perfiles en un ángulo de 60° o 90° se obtienen atractivas formas geométricas. Para una mayor optimización de la acústica ambiental, el sistema MOVE IT Suspended puede ampliarse sencillamente con elementos acústicos triangulares o cuadrados. Para una mayor libertad de diseño pueden utilizarse elementos curvos y conectores de esquinas especiales que pueden girarse 35° a izquierda y a derecha.



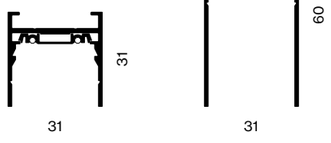
Mounting options

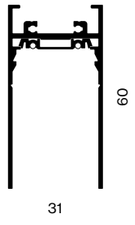
EN The slim, elegant MOVE IT 25 system offers a wide variety of installation options: as a trimless recessed or surface-mounted variant for wall or ceiling mounting and suspended at two depths. The direct / indirect variant provides additional homogeneous ceiling illumination.

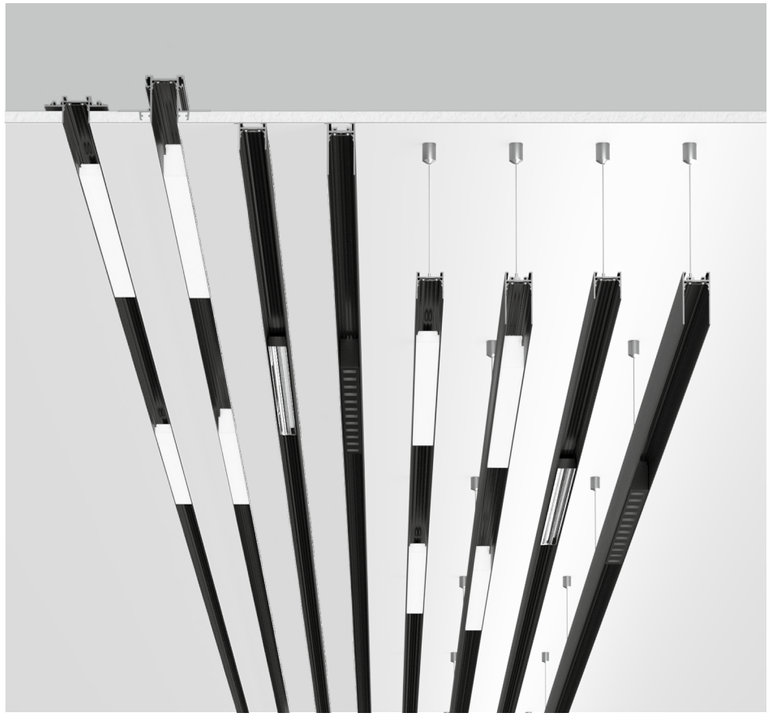
ES El esbelto y elegante sistema MOVE IT 25 ofrece una gran variedad de posibilidades de montaje, con versiones empotradas o de superficie sin marco para el montaje en pared o techo y otra de suspensión en dos alturas de carril diferentes. La versión Direct / Indirect garantiza una iluminación homogénea adicional del techo.

MOVE IT 25

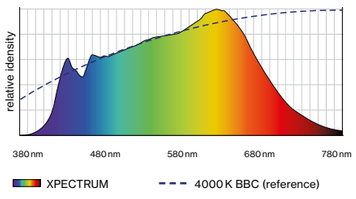
MOVE IT 25 S



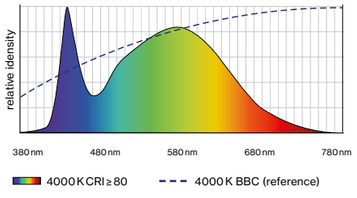




XPECTRUM LED



Commercially available LED 4000 K



Full-spectrum LED

EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 $R_f = 98$ and $R_g = 101$ further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices $R_f = 98$ y $R_g = 101$ según la norma IES TM-30-15– garantiza una mayor comodidad visual.

Optical accessories

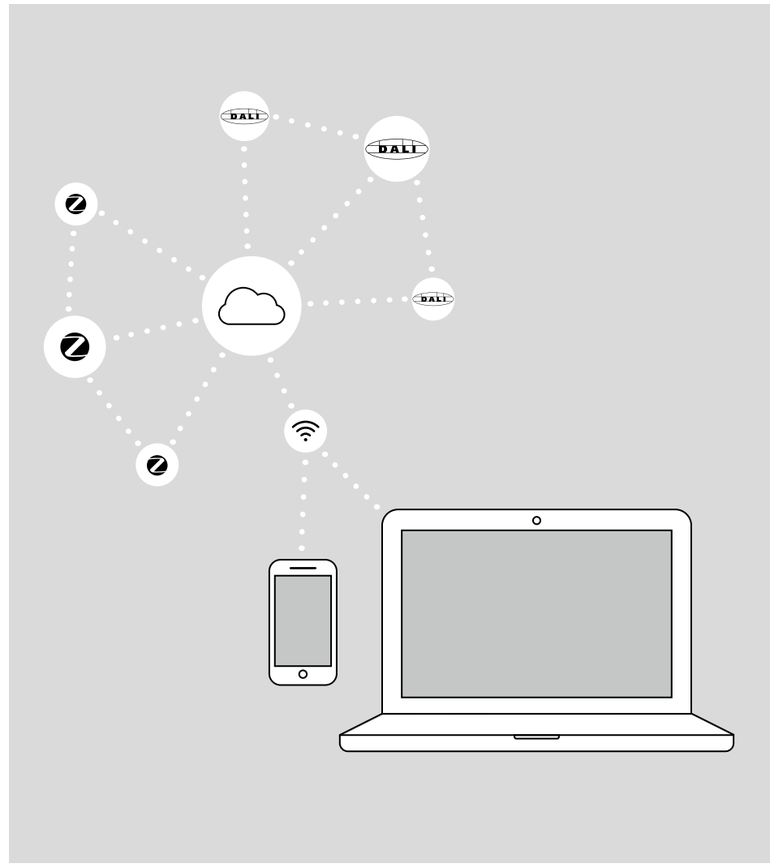
EN Use a wide range of optical accessories to adapt spotlights for special applications. The optical light accessories can be attached or removed in one easy step and provide glare-free light at any point.

ES Utilice accesorios ópticos para adaptar los proyectores a campos de aplicación especiales. Los accesorios ópticos pueden ponerse y quitarse con total facilidad y garantizan una luz exenta de deslumbramiento en cualquier lugar.

Control options

EN MOVE IT Insets are available with DALI-2 and can be controlled individually. Configuration and control are simply done via DALI. As the open DALI communication standard is fully supported, all compatible luminaires can be easily integrated into the system. The Wireless-to-DALI Inset enables wireless control of DALI luminaire systems by using a communication module.

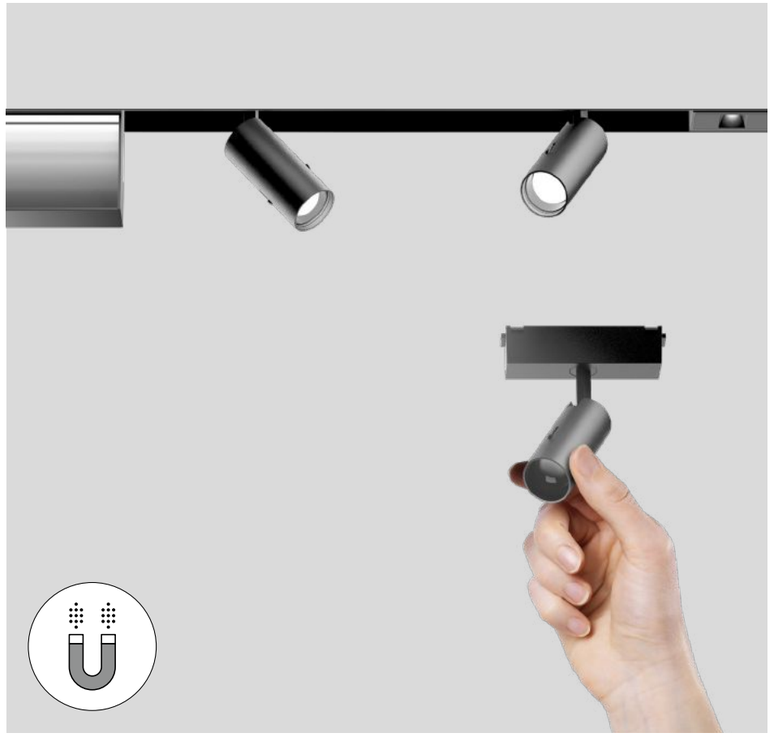
ES Los insertos MOVE IT están disponibles con DALI-2 y pueden controlarse individualmente. La configuración y el control se efectúan fácilmente a través de DALI. Ya que el sistema admite totalmente el uso del estándar de comunicación abierto DALI, todas las luminarias compatibles pueden integrarse en él con facilidad. El inserto “Wireless to DALI” posibilita el control sin cable de sistemas de luminarias DALI utilizando un módulo de comunicación.

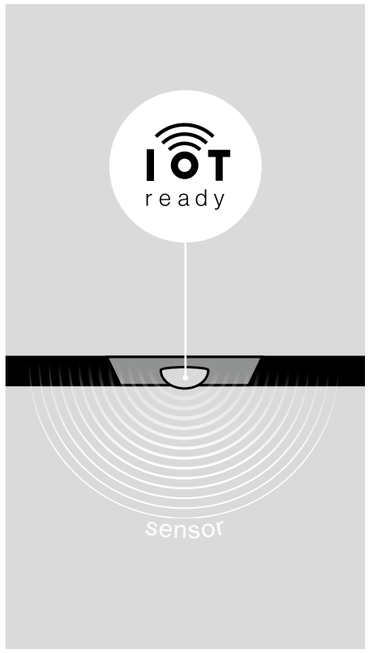


Magnetic attachment

EN MOVE IT Insets are mounted without tools and magnetically fixed within the profile. They can, therefore, be adjusted and adapted according to the lighting requirements with just one movement.

ES Los elementos en el MOVE IT se montan sin herramientas y se fijan magnéticamente en el interior del perfil. Esto les permite ajustarse y adaptarse con total facilidad según los requisitos de la iluminación.





IoT ready

EN IoT ready refers to the possibility of equipping luminaires with smart sensor technology. You receive valuable information, such as your lighting system‘s energy consumption or your rooms‘ utilisation over the day. You can set shut-off delay times and brightness values or plan time-controlled light sequences. The sensor is magnetically inserted into the track system like a spotlight and can be individually configured without restriction by existing standards.

ES “IoT ready” indica la posibilidad de equipar a las luminarias con sensores inteligentes. Esto le permitirá obtener información valiosa, tal como el consumo de energía de su sistema de iluminación o el grado de utilización de las salas en el transcurso del día. También es posible establecer tiempos de desconexión y valores de luminosidad, así como programar transiciones luminosas reguladas por temporizador. El sensor se fija magnéticamente al sistema de carriles como un foco, y puede configurarse de forma totalmente individual sin ningún tipo de restricciones por estándares existentes.

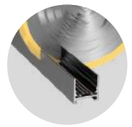
back

MOVE IT 25 S system

trimless / surface / suspended

EN Thin extruded aluminium profile with 31 mm height and 28 mm width groove; optionally for trimless installation in plasterboard ceilings (wall or ceiling mounting) with 12.5 mm ceiling thickness; or for wall-/ceiling surface mounting or suspended mounting (cable suspension, height adjustment without tools, incl. black feed); optional with indirect light component for additional accentuation of the ceiling; for lighting systems; linear, 90° angle connectors or 90° CURVE segment; with integrated power track profile for take off of supply voltage and DALI signal; surface anodised or powder coated; insets can be installed flexibly and without tools by means of magnetic holders + locking

ES Perfil de aluminio extrusionado plano con una altura de 31 mm y con ancho de junta de 28 mm; disponible para el encastre sin bordes en techos de cartón yeso (montaje en pared o techo) de 12,5 mm de espesor; o para montaje sobre pared/techo o suspendido (suspensión por cable, ajuste de altura sin herramienta, cable de alimentación negro incluido); opcional con componentes de luz indirectos para el realce adicional del techo; para sistemas de iluminación; lineal, conector acodado de 90° o elemento CURVE de 90°; con perfil de raíl electrificado integrado para la recepción de la tensión de alimentación y DALI; superficie anodizada o recubierto de polvo; montaje flexible y sin herramienta de los elementos insertables mediante un soporte magnético con bloqueo

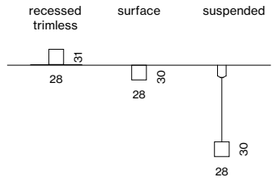


custom cut on building site

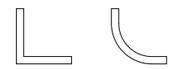
Quickinfo

3000 K
CRI ≥ 90, 2 SDCM
up to 117 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



connector



corner curve

Colours

standard xal.com/colours

Order options

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

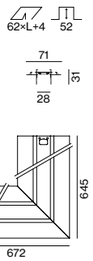
Options on request

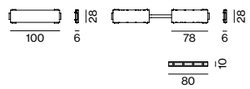
CONNECTOR

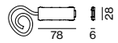
T-connector
X-connector

INSTALLATION TRACK

acoustic soft ceilings







MOVE IT 25 S trimless

DALI-2 | 48V | TRACK max. 6,67 A | pending

INSTALLATION TRACK

L (mm)		ORDER CODE
617	channel	050-72120 ◆ 8
1217	channel	050-72140 ◆ 8
2417	channel	050-72180 ◆ 8
3622	channel	050-72190 ◆ 8
cust. cut	channel (non DIM)	E83131 · · · · 8
cust. cut	channel (DALI-2)	E83141 · · · · 8
672x645	channel corner* 90°	050-72110 ◆ 8
661x661	channel corner* ceiling to wall 90°	050-72111 ◆ 8

*incl. electrical connector set

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	050-7210008

BLIND COVER

L (mm)	ORDER CODE
1217	050-7004008
2417	050-7008008
3622	050-7009008
custom cut	E83000 · · · · 8B

blind cover can be shortened as desired

CONNECTOR SET

TYPE	ORDER CODE
linear connector (non DIM, DALI-2)	050-2031130
linear connector flexible	050-20321 ◆ 0
mechanical linear connector (pair)	050-2011110

POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2 × 2,5 mm²	050-2020110
DALI-2 2 × 2,5 + 2 × 0,5 mm²	050-2020130

cable length 500 mm

Electrical accessories

see page 708

back

Order options

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
◒ gold dust 260-M / jet black 9005	G
special colours* ➔ p.992	X

*inside always in black

MATERIAL COLOUR ACCESSORIES

○ traffic white RAL 9016	7
● jet black RAL 9005	8

MATERIAL COLOUR CABLE SUSPENSION

chrome	0
black	8

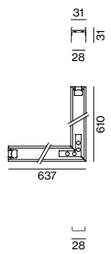
Options on request

CONNECTOR

T-connector
X-connector

MOVE IT 25 S surface / suspended

DALI-2 · 48V · TRACK max. 6,67 A · pending · CB pending

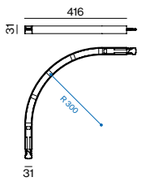


INSTALLATION TRACK / BLIND COVER

L (mm)		ORDER CODE
620	channel	050-73120
1220	channel	050-73140
2420	channel	050-73180
3625	channel	050-73190
cust. cut	channel (non DIM)	E83151
cust. cut	channel (DALI-2)	E83161
637x610	channel corner* 90°	050-73110
666x666	channel corner* ceiling to wall 90°	050-73111

*incl. electrical connector set

1217	blind cover	050-7004008
2417	blind cover	050-7008008
3622	blind cover	050-7009008
cust. cut	blind cover	E83000 ···· 8B



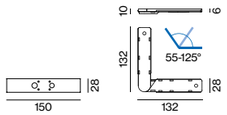
CURVE CONNECTOR

TYPE	ORDER CODE
mechanical & electrical R 300 mm	050-731303
mechanical R 300 mm	050-731311

Accessories

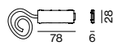
END CAPS

TYPE	ORDER CODE
end caps (pair)	050-731000



CONNECTOR SET

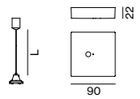
TYPE	ORDER CODE
mechanical linear conn. incl. 1500 mm cable susp.	050-201131
mechanical linear connector surface	050-2011210
mechanical & electrical linear connector	050-2031230
mechanical & electrical corner connector flex	050-2032238



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2×2,5 mm²	050-2022110
DALI-2 2×2,5 + 2×0,5 mm²	050-2022130

cable length 2000 mm



CEILING FASTENER / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling fastener	10	050-204111
cable suspension	1500	005-215211
canopy		005-231121

*use every 1200 mm

Electrical accessories

see page 708

Order options

COLOUR TEMPERATURE

3000 K

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
◒ gold dust 260-M / jet black 9005	G
special colours* ➔ p.992	X

*inside always in black

MATERIAL COLOUR ACCESSORIES

○ traffic white RAL 9016	7
● jet black RAL 9005	8

MATERIAL COLOUR CABLE SUSPENSION

chrome	0
black	8

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

2700 K
4000 K
tunable white 2700 – 6500 K*

*DALI-2 DT8

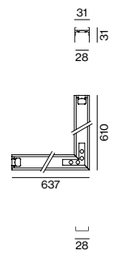
CONNECTOR

T-connector
X-connector

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white / black

MOVE IT 25 S suspended indirect

CRI ≥ 90 · DALI-2 · 48V · TRACK max. 6,67 A · pending · CB pending



INSTALLATION TRACK INDIRECT

L (mm)	SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
620	6.2 W	638 lm	050-74125
1220	15 W	1790 lm	050-74145
2420	33 W	3830 lm	050-74185
3625	50 W	5745 lm	050-74195
637x610 corner*	13 W	1530 lm	050-74110

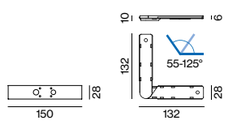
no custom cut on building side; *incl. electrical connector set

1217	blind cover	050-7004008
2417	blind cover	050-7008008
3622	blind cover	050-7009008
cust. cut	blind cover	E83000 ···· 8B

Accessories

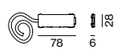
END CAPS

TYPE	ORDER CODE
end caps (pair)	050-731000



CONNECTOR SET

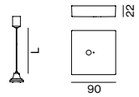
TYPE	ORDER CODE
mechanical linear conn. incl. 1500 mm cable susp.	050-201131
mechanical & electrical linear connector	050-2031230
mechanical & electrical corner connector flex	050-2032238



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2×2,5 mm²	050-2022110
DALI-2 2×2,5 + 2×0,5 mm²	050-2022130

cable length 2000 mm



CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
cable suspension	1500	005-215211
canopy		005-231121

*use every 1200 mm

Electrical accessories

see page 708

MOVE IT 25 system

trimless / surface / suspended

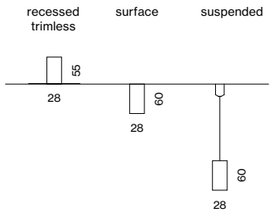
EN Extruded aluminium profile with 28 mm width groove; for trimless installation in plasterboard ceilings (wall or ceiling mounting) with 12.5 mm ceiling thickness; or for wall-/ ceiling surface mounting or suspended mounting (cable suspension, height adjustment without tools, incl. black feed); optional indirect light component for additional accentuation of the ceiling; for lighting systems; linear, 90° angle connectors or 90° CURVE segment; node connectors, up to 6 profile connection options; with power track profile for take off of supply voltage and DALI signal; surf. anod. or powder coated; insets can be installed flexibly and without tools by means of magnetic holders + locking; sound absorbing accessories available

ES Perfil de aluminio extruido con ancho de junta de 28 mm; para encastre sin bordes en planchas cartón yeso (montaje pared o techo) de 12,5 mm espesor; o para montaje sobre pared/techo o suspendido (suspensión por cable, ajuste de altura sin herramienta, cable de alimentación negro incluido); opcional componentes de luz indirectos para el realce adicional del techo; para sistemas de iluminación; lineal, conector acodado de 90° o elemento CURVE de 90°; conector de nodos, conexión de hasta 6 perfiles; con perfil de raíl electrificado para la recepción de la tensión de alimentación y DALI; superf. anodiz. o recub. de polvo; montaje flexible y sin herramienta de los elementos insertables mediante un soporte magnético con bloqueo; disponible accesorio para la absorción del ruido

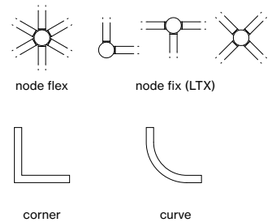
Quickinfo

3000 K
CRI ≥ 90, 2 SDCM
up to 117 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



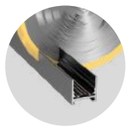
connectors



Colours

standard

xal.com/colours



custom cut on building site

acoustic elements (p. 772)

Order options

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

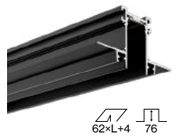
Options on request

CONNECTOR

T-connector
X-connector

INSTALLATION TRACK

acoustic soft ceilings



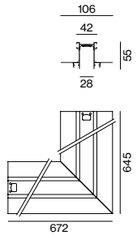
MOVE IT 25 trimless

DALI-2 · 48V · TRACK max. 6,67 A · pending · CB pending

INSTALLATION TRACK

L (mm)		ORDER CODE
617	channel	050-72020 ⇕ 8
1217	channel	050-72040 ⇕ 8
2417	channel	050-72080 ⇕ 8
3622	channel	050-72090 ⇕ 8
cust. cut	channel (non DIM)	E83031 · · · · 8
cust. cut	channel (DALI-2)	E83041 · · · · 8
672x645	channel corner* 90°	050-72010 ⇕ 8
661x661	channel corner* ceiling to wall 90°	050-72011 ⇕ 8

*incl. electrical connector set



Accessories

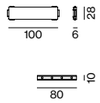
END CAPS

TYPE	ORDER CODE
end caps (pair)	050-7200008

BLIND COVER

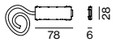
L (mm)	ORDER CODE
1217	050-7004008
2417	050-7008008
3622	050-7009008
custom cut	E83000 · · · · 8B

blind cover can be shortened as desired



CONNECTOR SET

TYPE	ORDER CODE
linear connector (non DIM, DALI-2)	050-2031130
linear connector flexible	050-20321 ⇕ 0
mechanical linear connector (pair)	050-2011110



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2 × 2,5 mm²	050-2020110
DALI-2 2 × 2,5 + 2 × 0,5 mm²	050-2020130

cable length 500 mm

Electrical accessories

see page 708

back

Order options

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR INSTALLATION TRACK

● jet black RAL 9005	8
◪ traffic white 9016 / jet black 9005	P
◪ gold dust 260-M / jet black 9005	G
special colours* ➔ p. 992	X

*inside always in black

MATERIAL COLOUR NODE CONNECTOR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p. 992	X

MATERIAL COLOUR NODE LTX / END CAP

● jet black RAL 9005	8
◪ traffic white 9016 / jet black 9005	P
special colours ➔ p. 992	X

MATERIAL COLOUR ACCESSORIES

○ traffic white RAL 9016	7
● jet black RAL 9005	8

MATERIAL COLOUR CABLE SUSPENSION

chrome	0
black	8

NODE CONNECTOR MOUNTING TYPE

surface*	1
1500 mm cable susp. chrome	3
1500 mm cable susp. black	4

*only for L/T/X

Electrical accessories

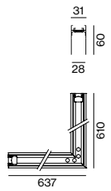
see page 708

Acoustic elements

see page 772

MOVE IT 25 surface / suspended

DALI-2 · 48V · TRACK max. 6,67 A · pending · CB pending

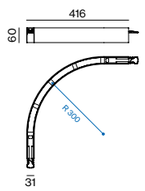


INSTALLATION TRACK / BLIND COVER

L (mm)		ORDER CODE
620	channel	050-73020
1220	channel	050-73040
2420	channel	050-73080
3625	channel	050-73090
cust. cut	channel (non DIM)	E83051
cust. cut	channel (DALI-2)	E83061
637x610	channel corner* 90°	050-73010
666x666	channel corner* ceiling to wall 90°	050-73011

*incl. electrical connector set

1217	blind cover	050-7004008
2417	blind cover	050-7008008
3622	blind cover	050-7009008
cust. cut	blind cover	E83000 ···· 8B



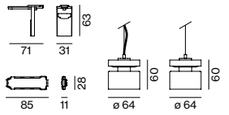
CURVE CONNECTOR

TYPE	ORDER CODE
mechanical & electrical R 300 mm	050-730303
mechanical R 300 mm	050-730311

Accessories

END CAPS

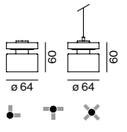
TYPE	ORDER CODE
end caps (pair)	050-730000



FLEX NODE CONNECTOR

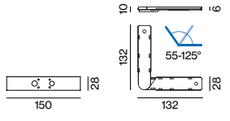
TYPE	ORDER CODE
FLEX NODE surface mounted	050-203333
FLEX NODE surface mounted incl. feeder	050-202243
FLEX NODE cable suspension 1500 mm	050-20331
FLEX NODE cable susp. 1500 mm incl. feeder	050-20222
NODE end cap* incl. electrical connector	050-730010

*order for every node connection (channel to node) 1 end cap



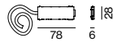
FIX NODE CONNECTOR

TYPE	ORDER CODE
L NODE incl. end cap & electrical connector	050-73054
T NODE incl. end cap & electrical connector	050-73052
X NODE incl. end cap & electrical connector	050-73053



CONNECTOR SET

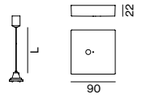
TYPE	ORDER CODE
mechanical linear conn. incl. 1500 mm cable susp.	050-201131
mechanical linear connector surface	050-2011210
mechanical & electrical linear connector	050-2031230
mechanical & electrical corner connector flex	050-2032238



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2×2,5 mm²	050-2022110
DALI-2 2×2,5 + 2×0,5 mm²	050-2022130

cable length 2000 mm



CEILING FASTENER / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling fastener	10	050-204111
cable susp. (use very 1200 mm)	1500	005-215211
canopy		005-231121

Order options

COLOUR TEMPERATURE

3000 K	

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR INSTALLATION TRACK

● jet black RAL 9005	8
◪ traffic white 9016 / jet black 9005	P
◪ gold dust 260-M / jet black 9005	G
special colours* ➔ p. 992	X

*inside always in black

MATERIAL COLOUR NODE CONNECTOR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p. 992	X

MATERIAL COLOUR NODE LTX / END CAP

● jet black RAL 9005	8
◪ traffic white 9016 / jet black 9005	P
special colours ➔ p. 992	X

MATERIAL COLOUR ACCESSORIES

○ traffic white RAL 9016	7
● jet black RAL 9005	8

MATERIAL COLOUR CABLE SUSPENSION

chrome	0
black	8

NODE CONNECTOR MOUNTING TYPE

surface*	1
1500 mm cable susp. chrome	3
1500 mm cable susp. black	4

*only for L/T/X

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM	

COLOUR TEMPERATURE

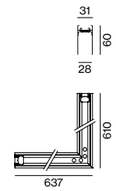
2700 K	
4000 K	
tunable white 2700–6500 K*	

*DALI-2 DT8

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white / black

MOVE IT 25 suspended indirect

CRI ≥ 90 · DALI-2 · 48V · TRACK max. 6,67 A · pending · CB pending



INSTALLATION TRACK INDIRECT

L (mm)	SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
620	6.2 W	638 lm	050-74025
1220	15 W	1790 lm	050-74045
2420	33 W	3830 lm	050-74085
3625	50 W	5745 lm	050-74095
637x610 corner*	13 W	1530 lm	050-74010

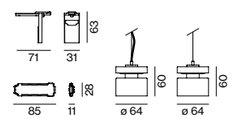
*incl. electrical connector set

1217	blind cover	050-7004008
2417	blind cover	050-7008008
3622	blind cover	050-7009008
cust. cut	blind cover	E83000 ···· 8B

Accessories

END CAPS

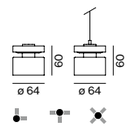
TYPE	ORDER CODE
end caps (pair)	050-730000



FLEX NODE CONNECTOR

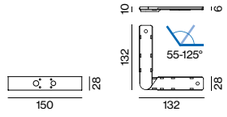
TYPE	ORDER CODE
FLEX NODE cable suspension 1500 mm	050-20331
FLEX NODE cable susp. 1500 mm incl. feeder	050-20222
FLEX NODE end cap* incl. electrical connector	050-730010

*order for every node connection (channel to node) 1 end cap



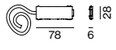
FIX NODE CONNECTOR

TYPE	ORDER CODE
L NODE incl. end cap & electrical connector	050-73054
T NODE incl. end cap & electrical connector	050-73052
X NODE incl. end cap & electrical connector	050-73053



CONNECTOR SET

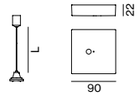
TYPE	ORDER CODE
mechanical linear conn. incl. 1500 mm cable susp.	050-201131
mechanical & electrical linear connector	050-2031230
mechanical & electrical corner connector flex	050-2032238



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2×2,5 mm²	050-2022110
DALI-2 2×2,5 + 2×0,5 mm²	050-2022130

cable length 2000 mm



CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
cable suspension*	1500	005-215211
canopy		005-231121

*use every 1200 mm

Electrical accessories

see page 708

Acoustic elements

see page 772

back

Order options

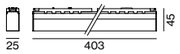
CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

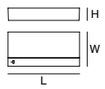
Electrical accessories



POWER SUPPLY INTRACK supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L·W·H (mm)	ORDER CODE
100 W ▣ PC II	η 92 %	intrack	403·26·46	050-2071038
150 W ▣ PC II	η 92 %	intrack	403·26·46	050-2071138

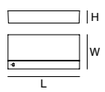
ENEC approved, incl. feeder cable 2000 mm; DALI-2 SELV device integrated



POWER SUPPLY SURFACE supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L·W·H (mm)	ORDER CODE
60 W ▣ PC II	η 88 %	surface	305·144·54	050-20551
100 W ▣ PC II	η 92 %	surface	455·104·40	050-20554
150 W ▣ PC II	η 92 %	surface	455·104·40	050-20552
250 W ▣ PC II	η 93 %	surface	455·104·40	050-20555
320 W ⏚ PC I	η 94 %	surface	305·144·54	050-20553

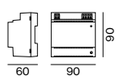
ENEC approved, incl. feeder cable 2000 mm; DALI-2 SELV device integrated



POWER SUPPLY EXTERNAL supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L·W·H (mm)	ORDER CODE
60 W ▣ PC II	η 88 %	external	163·43·32	002-62133
100 W ▣ PC II	η 92 %	external	350·30·18	002-62134
150 W ▣ PC II	η 92 %	external	350·30·18	002-62135
250 W ▣ PC II	η 93 %	external	400·40·22	002-62139
320 W ⏚ PC I	η 94 %	external	252·90·44	002-60320

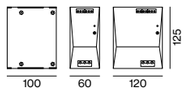
ENEC approved, incl. feeder cable 2000 mm



DIN RAIL POWER SUPPLY BASIC 48 V

220–240 V | 50–60 Hz | ▣ PC II | MTBF @ 55° ambient temperature

TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
96 W	η 89 % / > 300.000 h	90·90·60	005-65200010



DIN RAIL POWER SUPPLY PRO 48 V

220–240 V | 50–60 Hz | ⏚ PC I | MTBF @ 55° ambient temperature
cascadable max. 5 devices (240 W) or 3 devices (480 W)

TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
240 W	η 92 % / > 400.000 h	60·125·100	005-62201100
480 W	η 93 % / > 350.000 h	120·125·100	005-62202100

DALI-2 SELV DEVICE

TYPE	L·W·H (mm)	ORDER CODE
control unit	213·37·25	050-2061130

necessary to create DALI-2 SELV signal; DALI power supply integrated

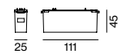
DALI SENSOR

TYPE	L·W·H (mm)	ORDER CODE
ESSENTIAL sensor (brightness & presence)	125·28·45	050-2063178

WIRELESS TO DALI-2 CONTROL DEVICE

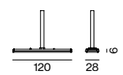
TYPE	L·W·H (mm)	ORDER CODE
Zigbee 3.0	111·25·45	050-2065130
Casambi	111·25·45	050-2065230

DALI-2 SELV device required



WIRELESS TO DALI-2 REPEATER

TYPE	L·W·H (mm)	ORDER CODE
Zigbee 3.0	111·25·45	050-2066130
Casambi	111·25·45	050-2066230

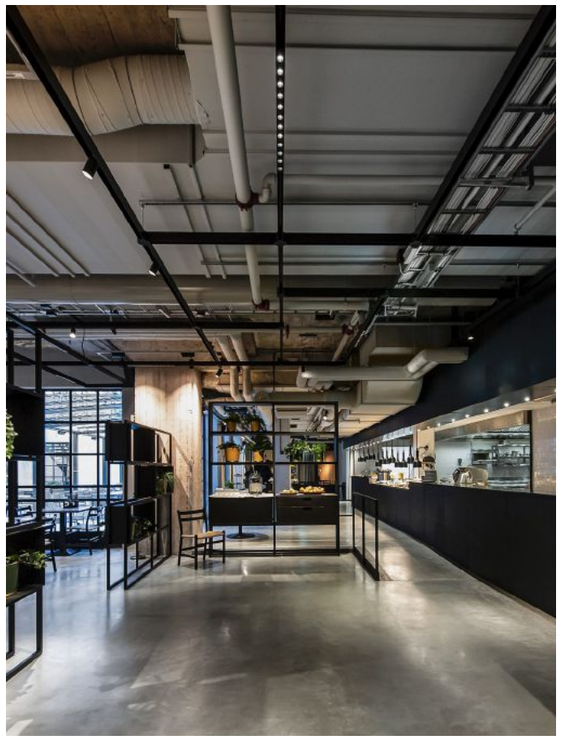


MIDDLE FEED

TYPE	ORDER CODE
non DIM 2 × 2,5 mm²	050-2038110
DALI-2 2 × 2,5 + 2 × 0,5 mm²	050-2038130

cable length 2000 mm

Blique by Nobis
Stockholm, SE –
by Wingårdhs



JUST

spotlight inset 25 / 25 S

Quickinfo

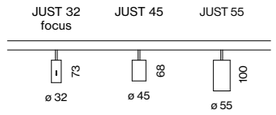
2700 K, 3000 K, 4000 K, TW, CWD
CRI ≥ 90, 2 SDCM
non DIM, DALI-2

L95 @ 50 000 h
JUST 32 focus up to 47 lm / W

L80 @ 50 000 h
JUST 45 up to 72 lm / W

L90 @ 50 000 h
JUST 55 up to 75 lm / W

Types



Colours

standard xal.com/colours

Light distributions

JUST 32 focus

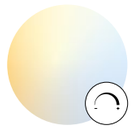
focus

JUST 45

super spot med. flood

JUST 55

spot med. flood



TW 1800–3000 K or 2700–6500 K

CWD 2000–3000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
colour warm dim. 2000–3000 K*	
tunable white 1800–3000 K**	
tunable white 2700–6500 K**	

*DALI-2 **DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p. 992	X

BEAM ANGLE JUST 45

medium 23°	M
flood 44°	F

BEAM ANGLE JUST 55

spot 16°	S
medium 28°	M
flood 37°	F

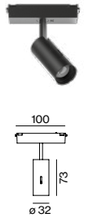
Options on request

OPTICAL ACCESSORIES

elliptical sculpture foil
snoot
colour filter (red, blue, green, etc.)

only for JUST 32 focus

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens flood 2700 K -5 %, 4000 K +5%



JUST 32 focus 17–43°

CRI ≥90 | DALI 1 ADDR. | 48 V | pending | CB pending

SPOTLIGHT

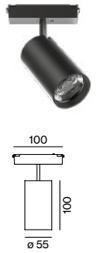
INSET POWER	LUMINOUS FLUX	ORDER CODE
8.3 W	393 lm	050-0111

JUST 45

CRI ≥90 | DALI 1 ADDR. | 48 V | pending | CB pending

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.1 W super spot 8°	297 lm	050-0131 3 V
11 W	788 lm	050-0131
12 W CWD 2000–3000 K	430 lm	050-0131E3
11 W TW 1800–3000 K	555 lm	050-0131L3
11 W TW 2700–6500 K	683 lm	050-0131D3



JUST 55

CRI ≥90 | DALI 1 ADDR. | 48 V | pending | CB pending

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
15.9 W	1300 lm	050-0143 3
30 W	2090 lm	050-0142 3

Optical accessories

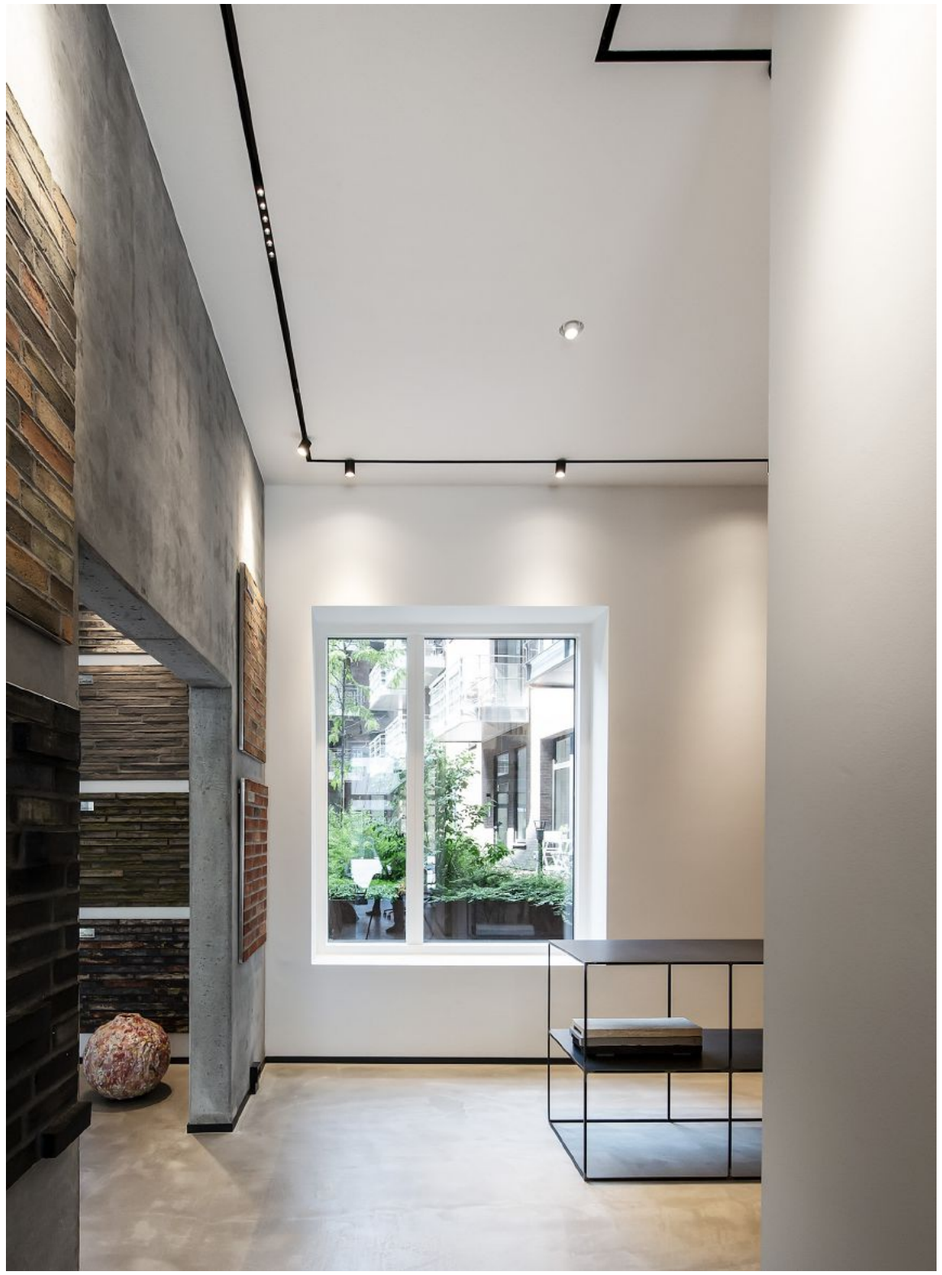
HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
JUST 32 focus	30-4	007-1965168
JUST 45	42-3	007-1965188
JUST 55	50-3	007-1965598

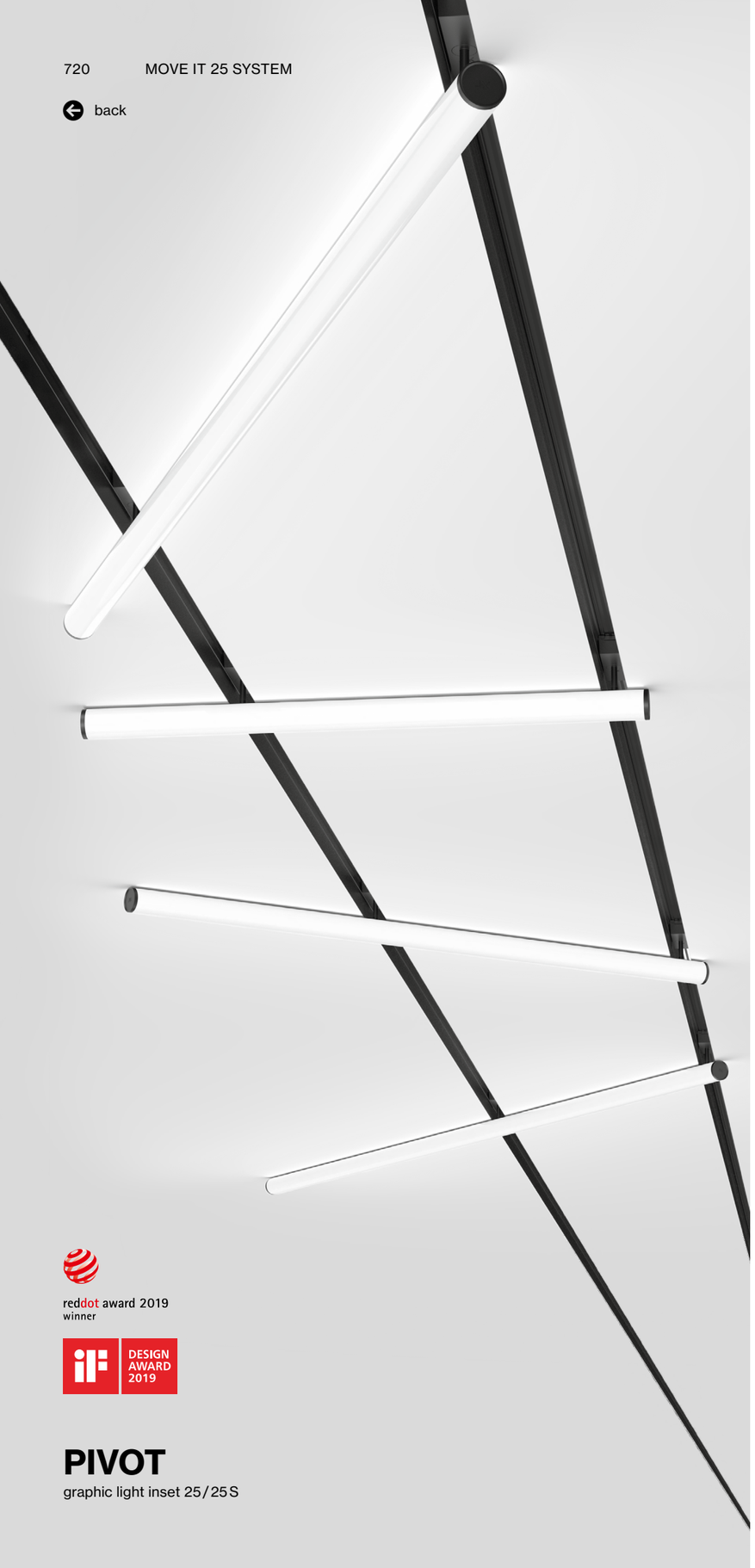
Hotel & Restaurant Mühltalhof
Neufelden, AT –
by AllesWirdGut Architekten

Private Residence Århus, DK –
by Friis Moltke Architects
with lighting design by anker & co

Petersen Tegl Copenhagen, DK –
by Annette Petersen & Peter Zinck
with lighting design by anker & co



Office of ENTASIS Architects
Copenhagen, DK –
by Christian Cold including lighting
design by Christian Cold / anker & co



reddot award 2019
winner

DESIGN AWARD 2019

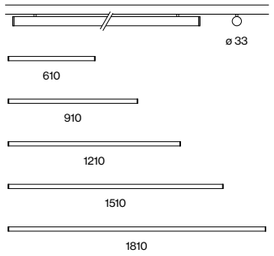
PIVOT

graphic light inset 25 / 25 S

Quickinfo

2700 K, 3000 K, TW
CRI ≥ 90, 3 SDCM
up to 146 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types

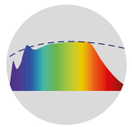


Colour

Light distribution

opal

tunable white
1800 – 4000 K



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
tunable white 1800 – 4000 K*	L

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

4000 K

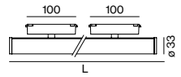
MATERIAL COLOUR

○ traffic white RAL 9016

LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

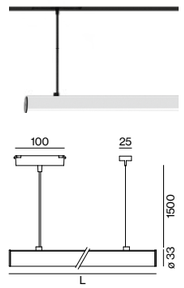
LIGHT INSET 25 S

CRI ≥ 80 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V



PIVOT

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10 W	2700 K	1260 lm	610	0 5 0 - 1 3 1 2 ⁝⁝ ⇳ 8 O
	3000 K	1260 lm		
13 W	2700 K	1900 lm	910	0 5 0 - 1 3 1 3 ⁝⁝ ⇳ 8 O
	3000 K	1890 lm		
17 W	2700 K	2530 lm	1210	0 5 0 - 1 3 1 4 ⁝⁝ ⇳ 8 O
	3000 K	2530 lm		
22 W	2700 K	3160 lm	1510	0 5 0 - 1 3 1 5 ⁝⁝ ⇳ 8 O
	3000 K	3160 lm		
26 W	2700 K	3790 lm	1810	0 5 0 - 1 3 1 6 ⁝⁝ ⇳ 8 O
	3000 K	3790 lm		



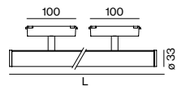
CRI ≥ 80 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V

PIVOT SUSPENDED

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10 W	2700 K	1260 lm	610	0 5 0 - 0 3 2 2 ⁝⁝ ⇳ 8 O
	3000 K	1260 lm		
13 W	2700 K	1900 lm	910	0 5 0 - 0 3 2 3 ⁝⁝ ⇳ 8 O
	3000 K	1890 lm		
17 W	2700 K	2530 lm	1210	0 5 0 - 0 3 2 4 ⁝⁝ ⇳ 8 O
	3000 K	2530 lm		
22 W	2700 K	3160 lm	1510	0 5 0 - 0 3 2 5 ⁝⁝ ⇳ 8 O
	3000 K	3160 lm		

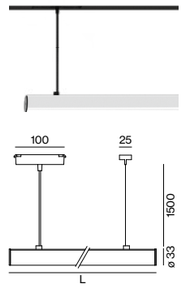
LIGHT INSET 25

CRI ≥ 80 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V



PIVOT

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10 W	2700 K	1260 lm	610	0 5 0 - 0 3 1 2 ⁝⁝ ⇳ 8 O
	3000 K	1260 lm		
13 W	2700 K	1900 lm	910	0 5 0 - 0 3 1 3 ⁝⁝ ⇳ 8 O
	3000 K	1890 lm		
17 W	2700 K	2530 lm	1210	0 5 0 - 0 3 1 4 ⁝⁝ ⇳ 8 O
	3000 K	2530 lm		
22 W	2700 K	3160 lm	1510	0 5 0 - 0 3 1 5 ⁝⁝ ⇳ 8 O
	3000 K	3160 lm		
26 W	2700 K	3790 lm	1810	0 5 0 - 0 3 1 6 ⁝⁝ ⇳ 8 O
	3000 K	3790 lm		

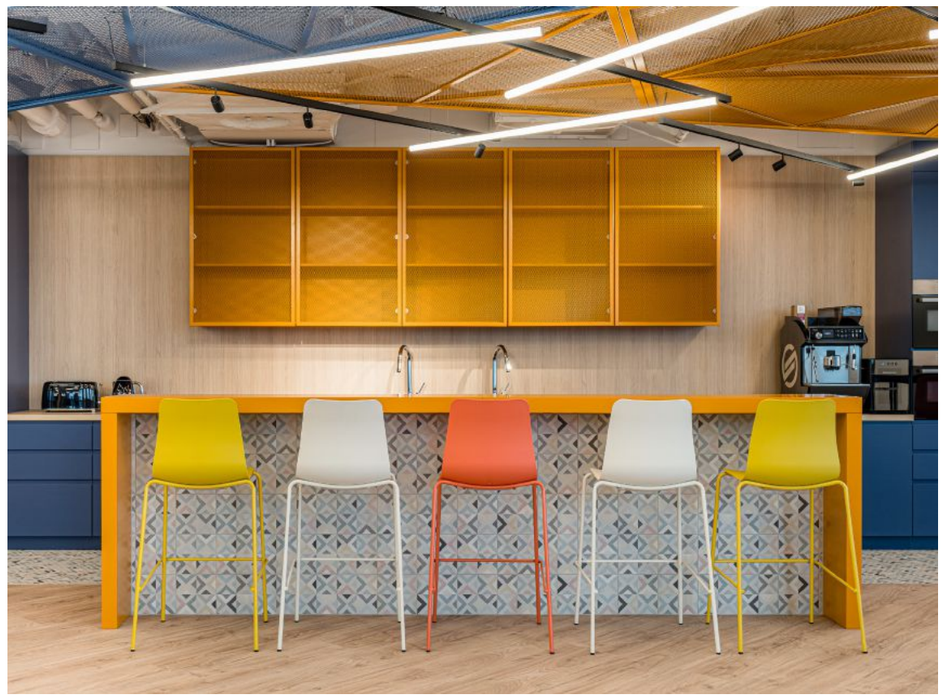


CRI ≥ 80 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V

PIVOT SUSPENDED

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
10 W	2700 K	1260 lm	610	0 5 0 - 0 3 2 2 ⁝⁝ ⇳ 8 O
	3000 K	1260 lm		
13 W	2700 K	1900 lm	910	0 5 0 - 0 3 2 3 ⁝⁝ ⇳ 8 O
	3000 K	1890 lm		
17 W	2700 K	2530 lm	1210	0 5 0 - 0 3 2 4 ⁝⁝ ⇳ 8 O
	3000 K	2530 lm		
22 W	2700 K	3160 lm	1510	0 5 0 - 0 3 2 5 ⁝⁝ ⇳ 8 O
	3000 K	3160 lm		

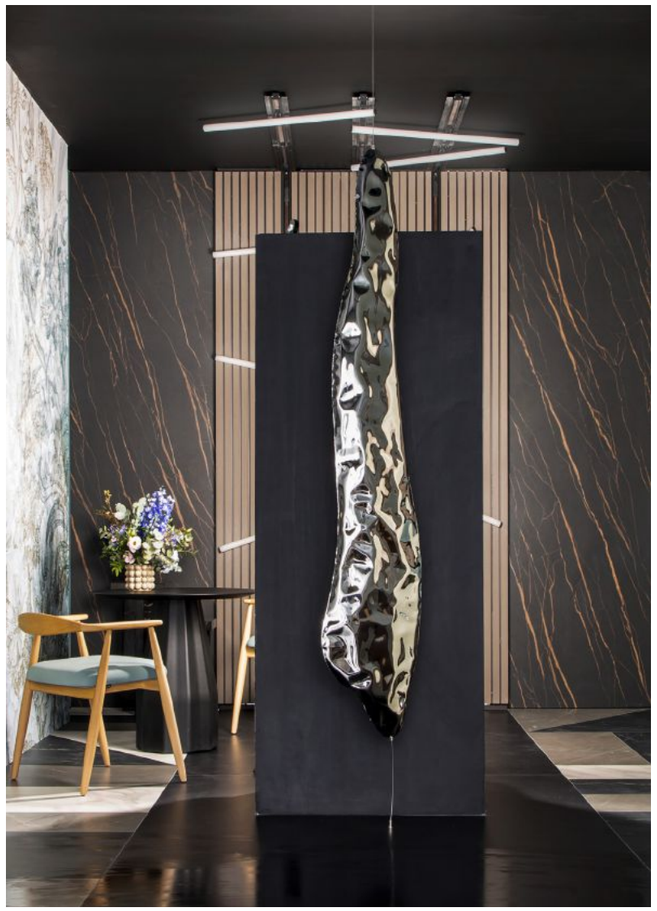
Autodesk Krakow, PL –
by The Design Group with
lighting design by Plus Lighting



Büroausbau in Soho
London, UK – by Design Haus
Liberty / DHL with lighting design
by Alkestie Skarlatou, lightinspace

The Raum Bolzano, IT –
by bergundtal gmbh.

Design Fair Marbella, ES –
by Welcome Design



back

DESIGN AWARD 2020

FLEXTRACK

system extension 25 / 25 S

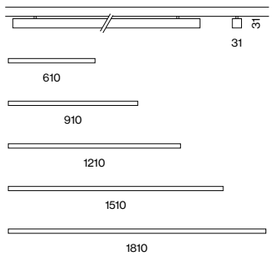
EN Thin extruded aluminium profile with 31 mm height and 28 mm width groove; with integrated power track profile for take off of supply voltage and DALI signal; surface anodised or powder coated; for installation in two MOVE IT 25 or 25 S profiles; profile can be installed and moved without tools by means of magnetic holders + locking; mount 360° rotatable and freely slidable on one end; light insets can be installed flexibly and without tools by means of magnetic holders+locking

ES Perfil de aluminio extruido plano de 31 mm de alto y 28 mm de ancho de junta; con perfil de carril electrificado integrado para toma de suministro eléctr. y señal DALI; superficie anodiz. o recub. de pintura en polvo; para inserción en dos perfiles MOVE IT 25 o MOVE IT 25 S; perfil insertable y desplazable sin herramienta mediante soporte magnético con bloqueo; soporte girable a 360° y libremente desplazable en un extremo; montaje flexible y sin herramienta de los elementos de luz mediante soporte magnético con bloqueo

Quickinfo

non DIM, DALI-2

Types



Colours

standard

xal.com/colours

Order options

CONTROL

non DIM	1
DALI-2	3

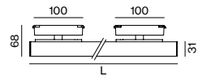
MATERIAL COLOUR

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
◒ gold dust 260-M / jet black 9005	G
special colours* p. 992	X

*inside always in black

MOVE IT 25 S

DALI-2 | 48 V

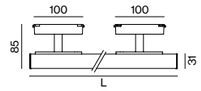


FLEXTRACK

L (mm)	ORDER CODE
610	050-45120
910	050-45130
1210	050-45140
1510	050-45150
1810	050-45160

MOVE IT 25

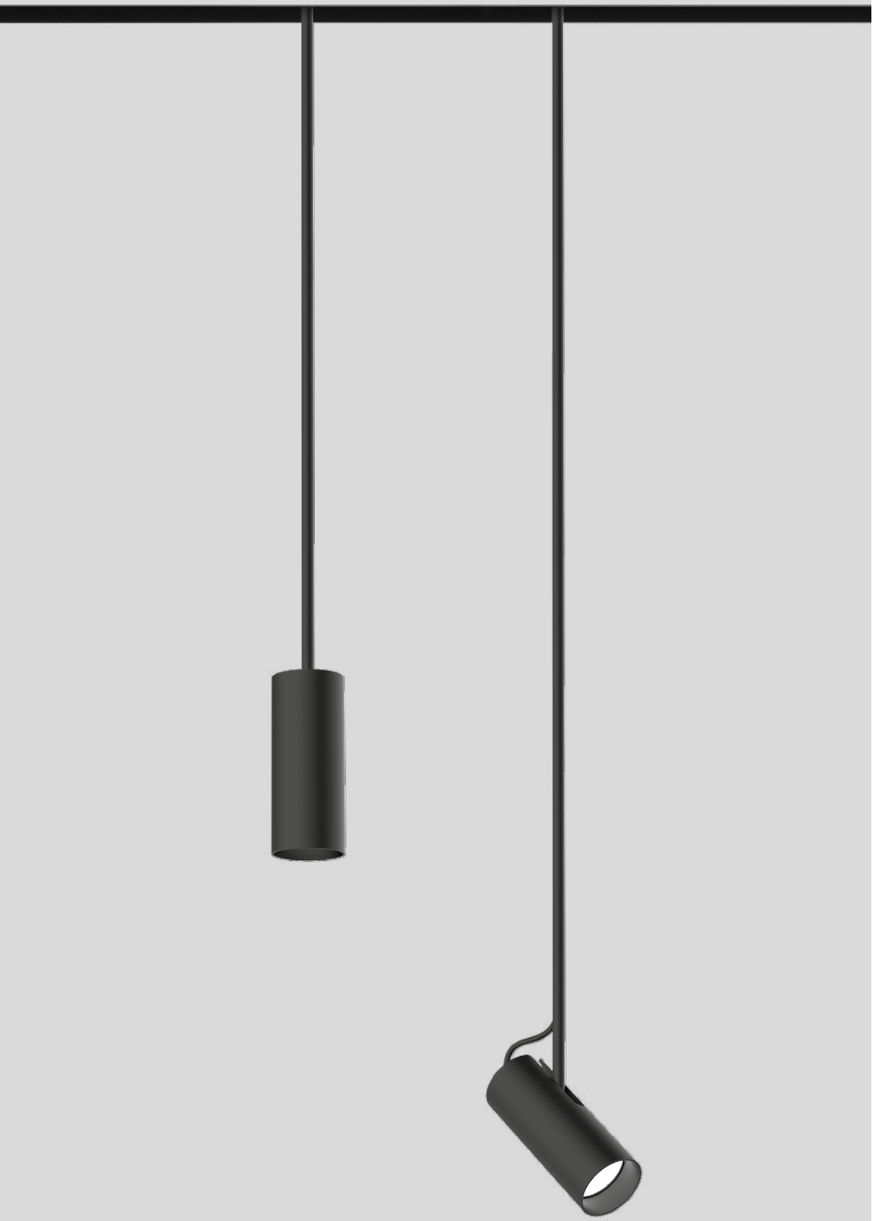
DALI-2 | 48 V



FLEXTRACK

L (mm)	ORDER CODE
610	050-45020
910	050-45030
1210	050-45040
1510	050-45050
1810	050-45060

Jewelery + Optical Store
Ludwigsburg, DE –
by Ippolito Fleitz Group –
Identity Architects



reddot winner 2020

DESIGN AWARD 2020

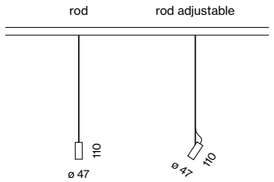
ARY rod

decorative inset 25 / 25 S

Quickinfo

2700 K, 3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
up to 84 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types



Colours

standard xal.com/colours

Light distributions

med. flood

Order options

CABLE SUSPENSION

1500 mm	5
2000 mm with hook*	6

*one ring included

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
tunable white 2200 – 4000 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

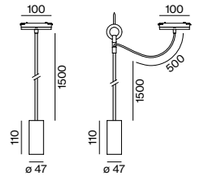
○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p. 992	X

ACCESSORY COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE

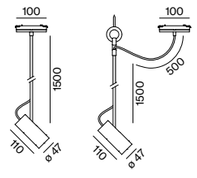
medium 25°	M
flood 44°	F



ARY rod

DOWNLIGHT

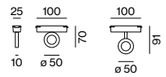
INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	1050 lm	0 5 0 - 0 ♁ 2 1 ⁘ ◪ ▲
	3000 K	1100 lm	
	4000 K	1180 lm	
5.4 W TW	2200 – 4000 K	284 lm	0 5 0 - 0 ♁ 2 1 D 3 ◪ ▲



ARY rod adjustable

SPOTLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	1050 lm	0 5 0 - 0 ♁ 3 1 ⁘ ◪ ▲
	3000 K	1100 lm	
	4000 K	1180 lm	
5.4 W TW	2200 – 4000 K	284 lm	0 5 0 - 0 ♁ 3 1 D 3 ◪ ▲



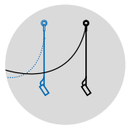
Mounting accessories

RING track mounted

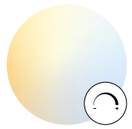
TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S	50·70	0 5 0 - 1 5 1 0 1 1 ■
MOVE IT 25	50·91	0 5 0 - 0 5 1 0 1 1 ■

RING ceiling mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S / 25	50·88	0 5 0 - 0 5 1 0 2 1 ■



free positioning by ring and hook



tunable white 2200 – 4000 K

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, lens flood

reddot winner 2020

DESIGN AWARD 2020

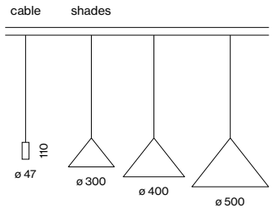
ARY cable

decorative inset 25/25S

Quickinfo

2700 K, 3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
up to 84 lm/W
L90 @ 50 000 h
non DIM, DALI-2

Types



Colours

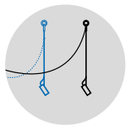
standard

xal.com/colours

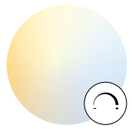
shades

Light distributions

med. flood



free positioning by ring and hook



tunable white 2200 – 4000 K

Order options

CABLE SUSPENSION

1500 mm	5
2000 mm with hook*	6

*one ring included

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
tunable white 2200 – 4000 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p. 992	X

ACCESSORY COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

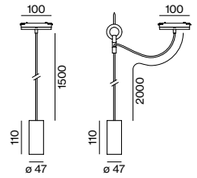
BEAM ANGLE

medium 25°	M
flood 44°	F

SHADE COLOUR

velvet beige RAL 085 80 10	C
madeira brown RAL 050 40 40	T
kingfisher grey RAL 230 60 10	L
woodpecker olive RAL 105 0 20	G
○ signal white RAL 9003	W
● signal black RAL 9004	B

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, lens flood



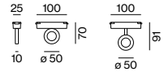
ARY cable

CRI ≥ 90 | DALI 1 ADDR. | 48 V | X-PERT

DOWNLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	1050 lm	0 5 0 - 0 ♁ 1 1 ⁘ ◪ ▲
	3000 K	1100 lm	
	4000 K	1180 lm	
5.4 W TW	2200 – 4000 K	284 lm	0 5 0 - 0 ♁ 1 1 D 3 ◪ ▲

Mounting accessories



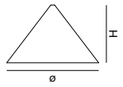
RING track mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S	50·70	0 5 0 - 1 5 1 0 1 1 ■
MOVE IT 25	50·91	0 5 0 - 0 5 1 0 1 1 ■

RING ceiling mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25S/25	50·88	0 5 0 - 0 5 1 0 2 1 ■

Optical accessories

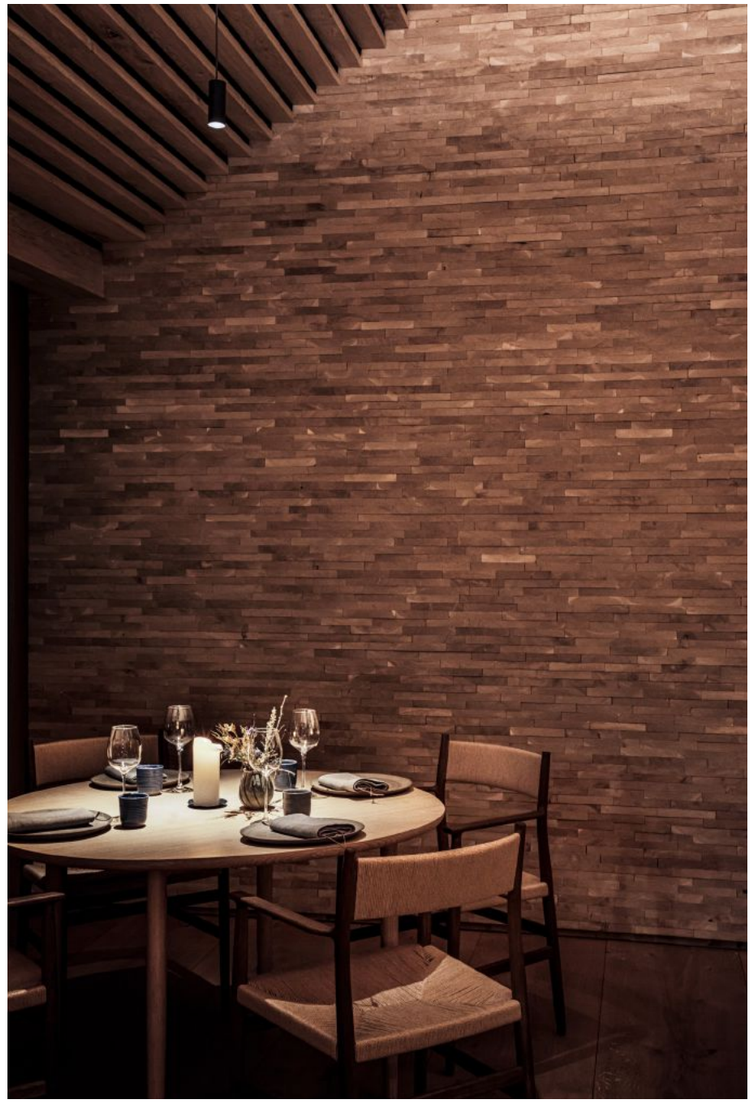


SHADE

TYPE	Ø·H (mm)	ORDER CODE
cone 300	300·188	0 4 9 - 5 9 3 3 1 1 □
cone 400	400·253	0 4 9 - 5 9 3 4 1 1 □
cone 500	500·318	0 4 9 - 5 9 3 5 1 1 □

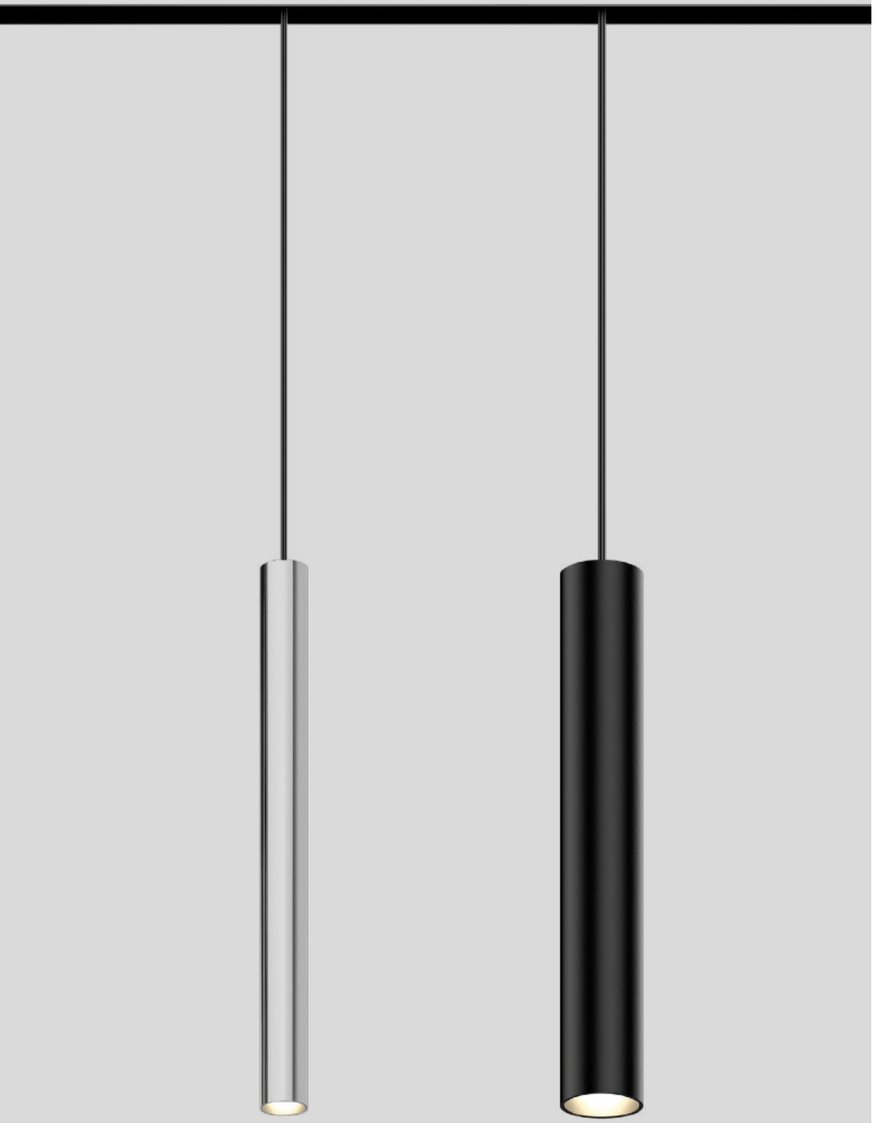
only available for ARY cable

Noma 2.0
Copenhagen, DK –
by BIG with interior design
by Studio David Thulstrup



Gwerder Fidel Energietechnik AG
Ibach, CH – by FORM
Innenarchitektur GmbH

back

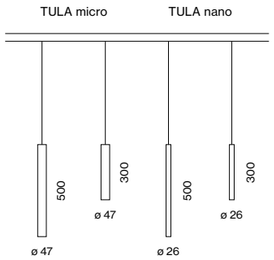


TULA
decorative inset 25/25S

Quickinfo

2700 K, 3000 K, TW
CRI ≥ 90, 3 SDCM
up to 75 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

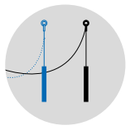


Colours

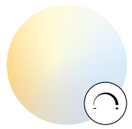
standard xal.com/colours

Light distributions

med. flood



free positioning by ring and hook



tunable white 2200 – 4000 K

Order options

HOUSING HEIGHT L

300 mm	0
500 mm	1

CABLE SUSPENSION

1500 mm	7
2000 mm with hook*	6

*one ring included

COLOUR TEMPERATURE

2700 K	4
3000 K	5
tunable white 2200 – 4000 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

chrome	4
traffic white RAL 9016	7
jet black RAL 9005	8
special colours p. 992	X

ACCESSORY COLOUR

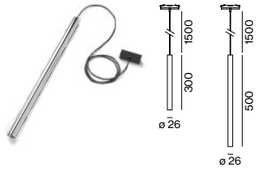
traffic white RAL 9016	7
jet black RAL 9005	8

BEAM ANGLE

medium 25°	M
flood 44°	F

Options on request

COLOUR TEMPERATURE
4000 K

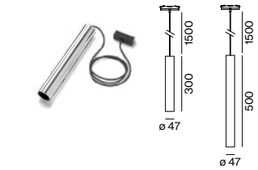


TULA nano suspended

CRI ≥90 | DALI 1 ADDR. | 48 V

DOWNLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	2700 K	642 lm	0 5 0 - L 7 1 1
	3000 K	688 lm	



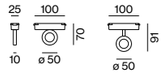
TULA micro suspended

CRI ≥90 | DALI 1 ADDR. | 48 V

DOWNLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	2700 K	998 lm	0 5 0 - L 7 1 5
	3000 K	1048 lm	
5.4 W	2200 – 4000 K	254 lm	0 5 0 - L 7 1 5 D 3

Mounting accessories



RING track mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S	50·70	0 5 0 - 1 5 1 0 1 1
MOVE IT 25	50·91	0 5 0 - 0 5 1 0 1 1

RING ceiling mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S/25	50·88	0 5 0 - 0 5 1 0 2 1

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, lens flood

Mape kitchen & interior Putte, BE

Private Residence Århus, DK –
by Friis Moltke Architects with
lighting design by anker & co

Private Residence Linz, AT –
by ARKD, architekturbüro arkade
zt gmbh including lighting design

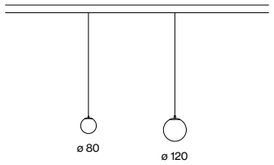
back

PAL
decorative inset 25/25S

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
up to 55 lm/W
L80 @ 50 000 h
non DIM, DALI-2
IP 40

Types



Colours

standard xal.com/colours

Light distribution

opal

Order options

CABLE SUSPENSION

1500 mm	5
2000 mm with hook*	6

*one ring included

COLOUR TEMPERATURE

2700 K	4
3000 K	5

CONTROL

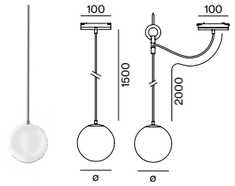
non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8
special colours p. 992	X

ACCESSORY COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8



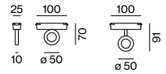
PAL suspended

CRI ≥ 90 | DALI 1 ADDR. | 48 V | IP 40

DOWNLIGHT

INS. POWER	COLOUR TEMP.	LUM. FLUX	Ø (mm)	ORDER CODE
9.1 W	2700 K	472 lm	80	0 5 0 - 1 ♁ 1 1
	3000 K	498 lm		
9.1 W	2700 K	472 lm	120	0 5 0 - 1 ♁ 1 3
	3000 K	498 lm		

Mounting accessories



RING track mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S	50·70	0 5 0 - 1 5 1 0 1 1
MOVE IT 25	50·91	0 5 0 - 0 5 1 0 1 1

RING ceiling mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25S/25	50·88	0 5 0 - 0 5 1 0 2 1

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, glass

Restaurant
Visualisation

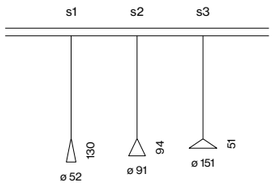
wästberg
w201 Extra small pendant

Design by Claesson Koivisto Rune

Quickinfo

2700 K
CRI ≥ 95, 3 SDCM
up to 97 lm / W
L90 @ 50 000 h
non DIM, DALI-2

Types



Colours

Order options

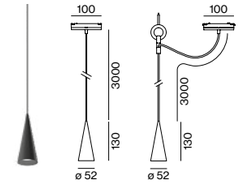
CABLE SUSPENSION
- 3000 mm — 5
- 3000 mm with hook — 6

COLOUR TEMPERATURE
- 2700 K

CONTROL
- non DIM — 1
- DALI-2 — 3

MATERIAL COLOUR
- ○ traffic white RAL 9016 — 7
- ● jet black RAL 9005 — 8

ACCESSORY COLOUR
- ○ pure white RAL 9010 — 7
- ● jet black RAL 9005 — 8

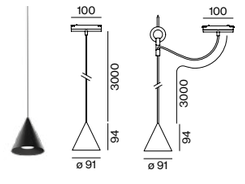


w201 Extra small pendant s1

CRI ≥ 95 · DALI 1 ADDR. · 48V · HOT PLUG SAFE

DOWNLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W	2700 K	445 lm	050-04 3 14

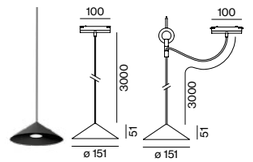


w201 Extra small pendant s2

CRI ≥ 95 · DALI 1 ADDR. · 48V · HOT PLUG SAFE

DOWNLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W	2700 K	509 lm	050-04 3 24



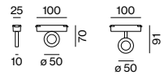
w201 Extra small pendant s3

CRI ≥ 95 · DALI 1 ADDR. · 48V · HOT PLUG SAFE

DOWNLIGHT

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6 W	2700 K	579 lm	050-04 3 34

Mounting accessories



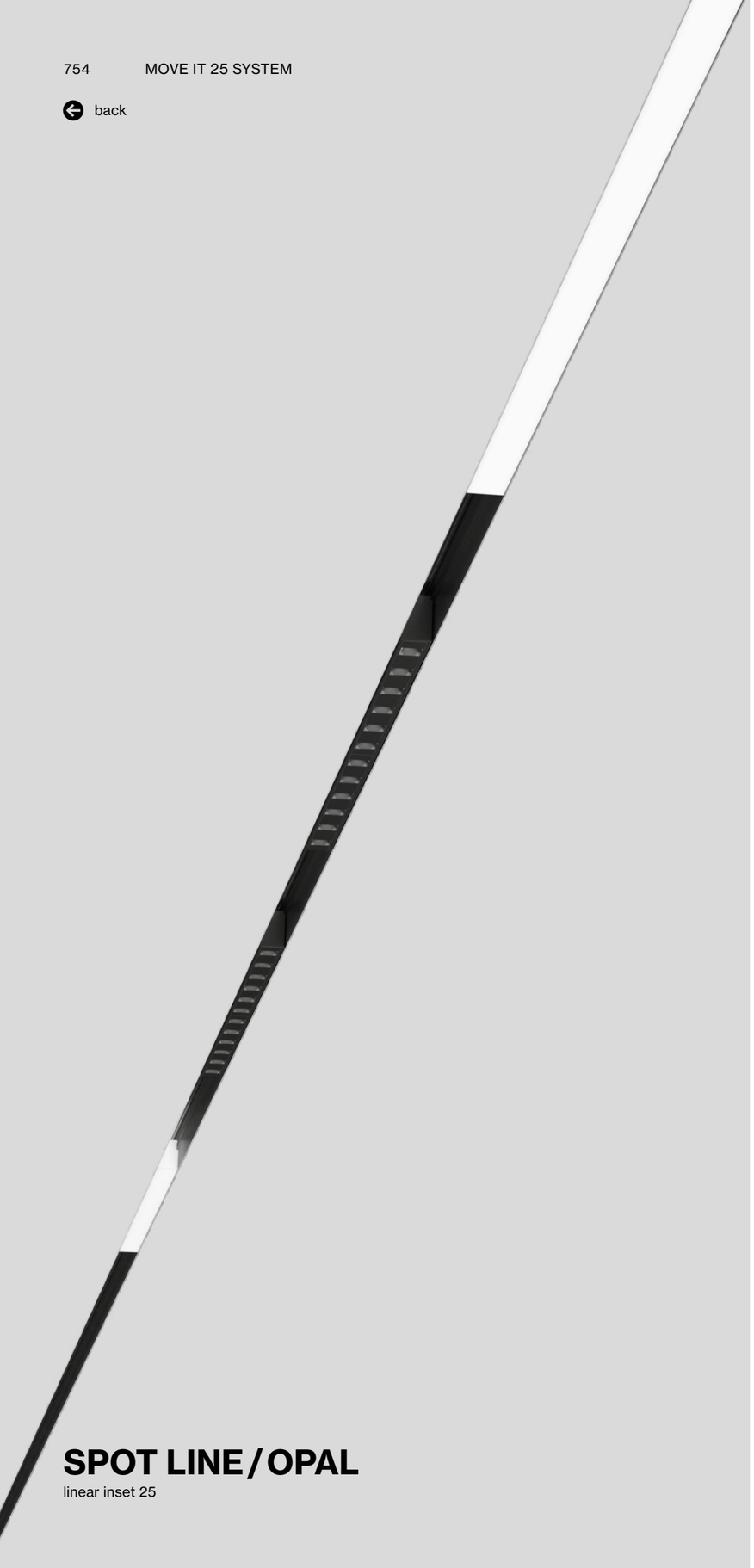
RING track mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S	50·70	050-151011
MOVE IT 25	50·91	050-051011

RING ceiling mounted

TYPE	Ø·H (mm)	ORDER CODE
MOVE IT 25 S / 25	50·88	050-051021

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 95, colour white



SPOT LINE / OPAL

linear inset 25

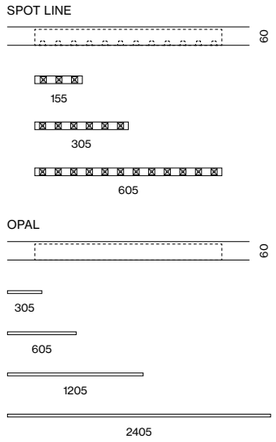
Quickinfo

2700 K, 3000 K, TW (opal)
CRI ≥ 90, 3 SDCM
SPOT LINE up to 80 lm/W
OPAL up to 109 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

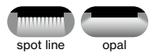
MOVE IT 25

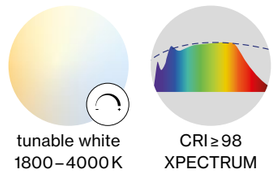
SPOT LINE



OPAL

Light distributions





Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
tunable white 1800 – 4000 K*	L

*only available for opal high performance inset | DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

Options on request

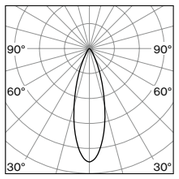
COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

4000 K

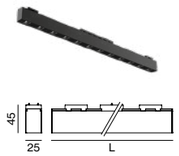
Light distribution



spot line

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

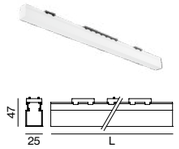
LIGHT INSET 25



UGR ≤ 16 | CRI ≥ 90 | DALI 1 ADDR. | 48 V | pending | CB pending

SPOT LINE

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
3 × 1.4 W	2700 K	309 lm	155	050-0220 ⁘ ⇕ 8M
	3000 K	336 lm		
6 × 1.4 W	2700 K	618 lm	305	050-0221 ⁘ ⇕ 8M
	3000 K	672 lm		
12 × 1.4 W	2700 K	1240 lm	605	050-0222 ⁘ ⇕ 8M
	3000 K	1340 lm		



CRI ≥ 90 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V | pending | CB pending

OPAL HIGH PERFORMANCE

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	445 lm	305	050-0211 ⁘ ⇕ 8H
	3000 K	477 lm		
10 W	2700 K	890 lm	605	050-0212 ⁘ ⇕ 8H
	3000 K	954 lm		
17 W	2700 K	1780 lm	1205	050-0214 ⁘ ⇕ 8H
	3000 K	1910 lm		
35 W	2700 K	3560 lm	2405	050-0218 ⁘ ⇕ 8H
	3000 K	3820 lm		

LIGHT INSET 25 S

CRI ≥ 90 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V | pending | CB pending

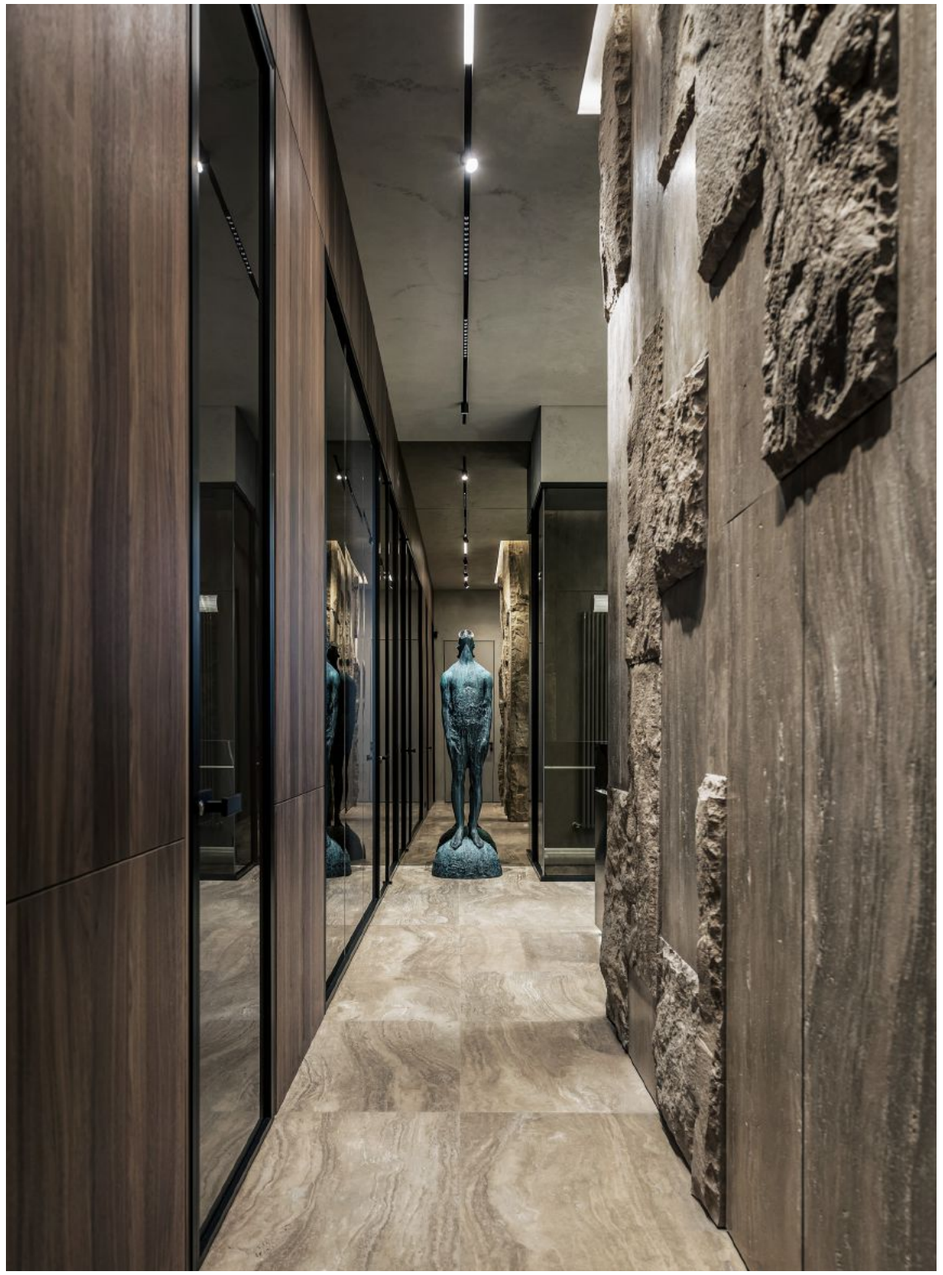
OPAL HIGH PERFORMANCE

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	397 lm	305	050-1211 ⁘ ⇕ 8H
	3000 K	426 lm		
10 W	2700 K	795 lm	605	050-1212 ⁘ ⇕ 8H
	3000 K	851 lm		
17 W	2700 K	1590 lm	1205	050-1214 ⁘ ⇕ 8H
	3000 K	1700 lm		
35 W	2700 K	3180 lm	2405	050-1218 ⁘ ⇕ 8H
	3000 K	3410 lm		

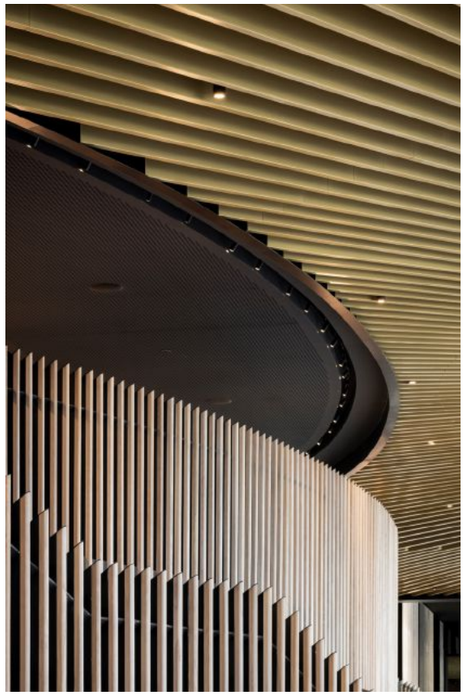
canyon solution for MOVE IT 25

Private Residence Sofia, BG –
by Modify studio, Arch Kamelia
Georgieva

ReFuture Clinic Kiev, UA –
by YODEZEEN Architects with lighting
design by Svetlana Osadcha



Deansgate Square Manchester, UK –
by Lister & Lister with lighting design
by Troup, Bywaters & Anders Lighting



Aertssen Group
Beveren, BE –
by Mertens Architecten

back

WALLWASHER

linear inset 25 / 25 S

Quickinfo

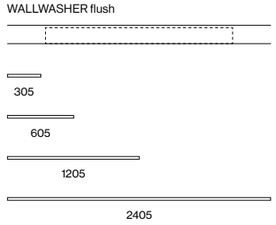
2700 K, 3000 K
CRI ≥ 90, 3 SDCM
WALLWASHER up to 81 lm/W
WW flush up to 77 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

MOVE IT 25

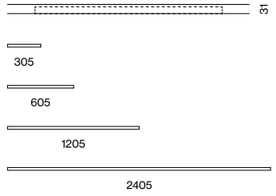
WALLWASHER

WALLWASHER flush



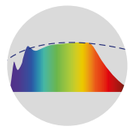
MOVE IT 25 S

WALLWASHER flush



Light distribution

wall washer



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

Options on request

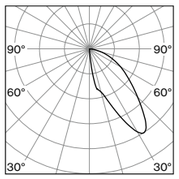
COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

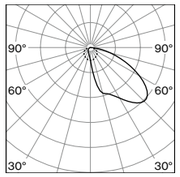
COLOUR TEMPERATURE

4000 K

Light distributions

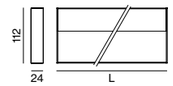


wallwasher



wallwasher flush

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

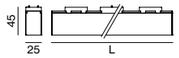


LIGHT INSET 25

CRI ≥ 90 · DALI 1 ADDR. · 48 V · pending · CB pending

WALLWASHER

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
13 W	2700 K	983 lm	450	050-0232 :: 38A
	3000 K	1050 lm		



CRI ≥ 90 · DALI 1 ADDR. · 48 V · pending · CB pending

WALLWASHER FLUSH

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	329 lm	305	050-0211 :: ≑ 8A
	3000 K	367 lm		
11 W	2700 K	658 lm	605	050-0212 :: ≑ 8A
	3000 K	735 lm		
19 W	2700 K	1320 lm	1205	050-0214 :: ≑ 8A
	3000 K	1470 lm		
38 W	2700 K	2630 lm	2405	050-0218 :: ≑ 8A
	3000 K	2940 lm		

Optical accessories

ANTI-GLARE GRID

TYPE	L·W (mm)	ORDER CODE
WALLWASHER FLUSH	303·25	050-023091 8

cluster solution to create anti-glare grid for all lengths

LIGHT INSET 25 S

CRI ≥ 90 · DALI 1 ADDR · 48 V · pending · CB pending

WALLWASHER FLUSH

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	329 lm	305	050-1211 :: ≑ 8A
	3000 K	367 lm		
11 W	2700 K	658 lm	605	050-1212 :: ≑ 8A
	3000 K	735 lm		
19 W	2700 K	1320 lm	1205	050-1214 :: ≑ 8A
	3000 K	1470 lm		
38 W	2700 K	2630 lm	2405	050-1218 :: ≑ 8A
	3000 K	2940 lm		

Jewelery + Optical Store
Ludwigsburg, DE –
by Ippolito FleitzGroup – Identity Architects

WALL GRAZER / BATWING

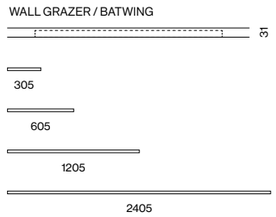
linear inset 25 S

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
WALL GRAZER up to 127 lm/W
BATWING up to 124 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types

MOVE IT 25 S



Light distributions

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

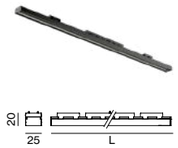
Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

4000 K

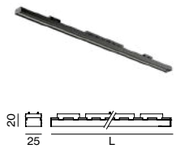


LIGHT INSET 25 S

CRI ≥90 · DALI 1 ADDR. · 48 V · pending · CB pending

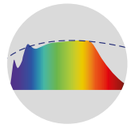
WALL GRAZER

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	518 lm	305	050-1211 ⁘÷ 8S
	3000 K	555 lm		
10 W	2700 K	1040 lm	605	050-1212 ⁘÷ 8S
	3000 K	1110 lm		
17 W	2700 K	2070 lm	1205	050-1214 ⁘÷ 8S
	3000 K	2220 lm		
35 W	2700 K	4150 lm	2405	050-1218 ⁘÷ 8S
	3000 K	4440 lm		



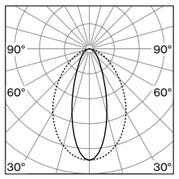
BATWING

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5 W	2700 K	506 lm	305	050-1211 ⁘÷ 8B
	3000 K	542 lm		
10 W	2700 K	1010 lm	605	050-1212 ⁘÷ 8B
	3000 K	1080 lm		
17 W	2700 K	2020 lm	1205	050-1214 ⁘÷ 8B
	3000 K	2170 lm		
35 W	2700 K	4040 lm	2405	050-1218 ⁘÷ 8B
	3000 K	4330 lm		

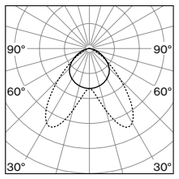


CRI ≥ 98
XPECTRUM

Light distributions



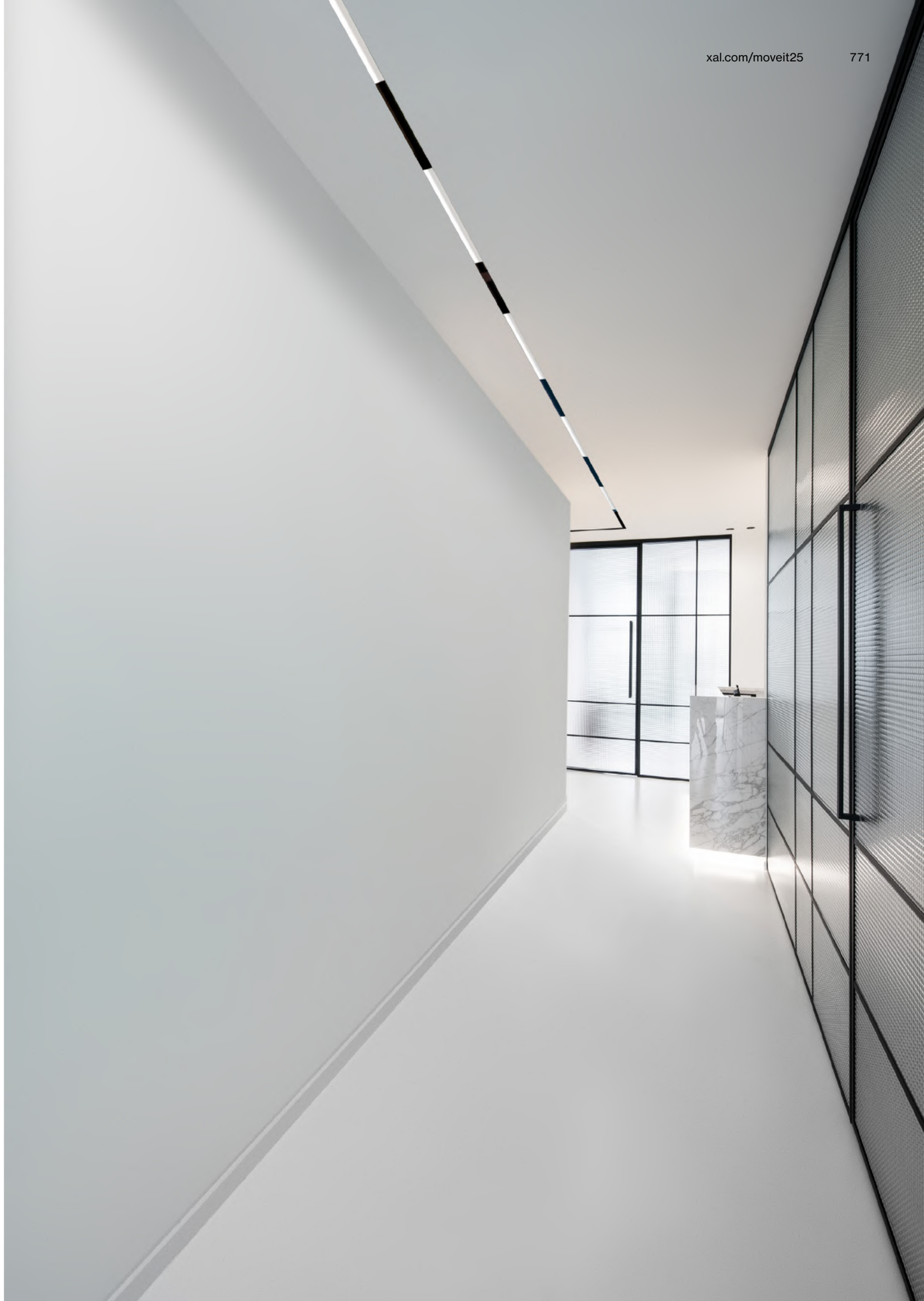
wall grazer

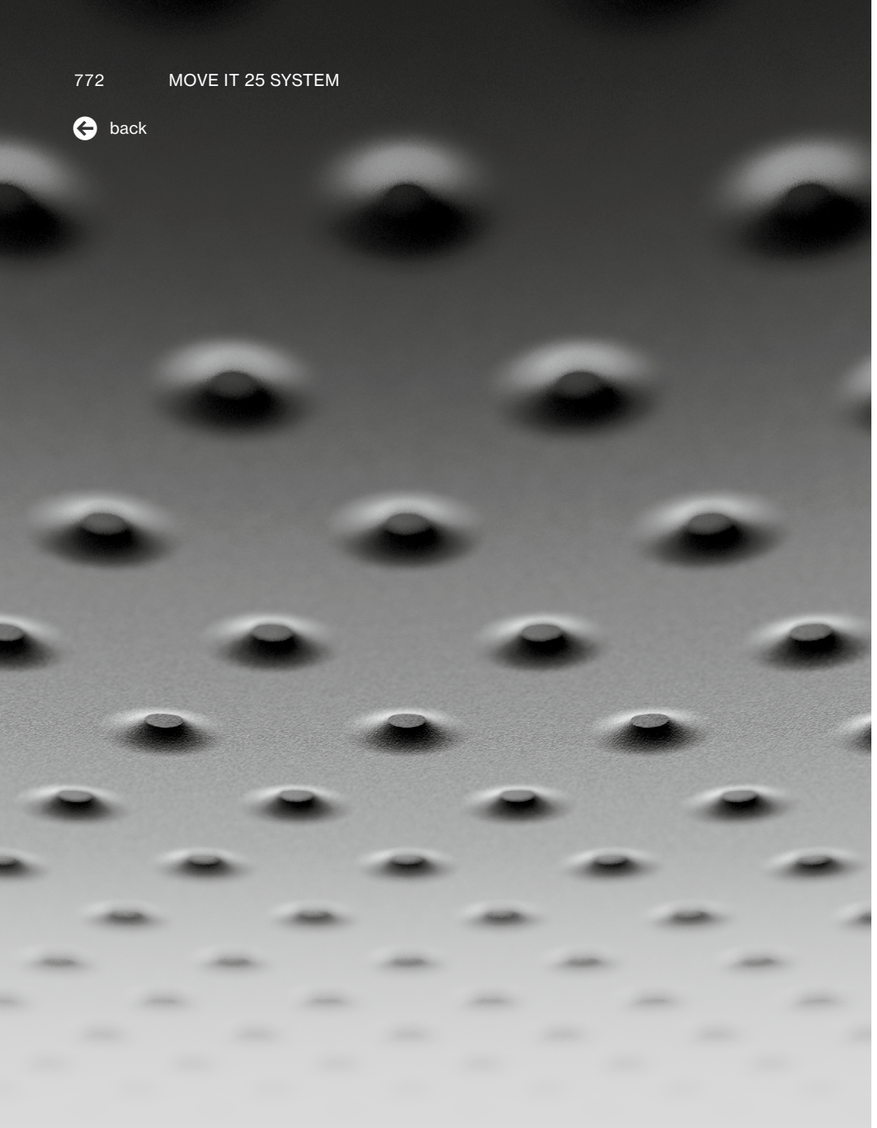


batwing

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

Dental Practice Coornaert - Tandartscentrum Atlas
Kortrijk, BE – by Maison Jane





ACOUSTIC elements

inlay 25

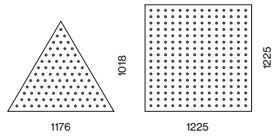
EN Highly effective acoustic element made of self-supporting, recycled PET felt; direct sound is absorbed by the front-mounted fleece, sound reflected from the ceiling by an additional, rear-mounted fleece; this creates high acoustic performance; for installation in the MOVE IT 25 suspended system composed of node connectors and 1220 mm profiles

ES Elemento acústico de alta eficacia fabricado de fieltro PET reciclado y autoportante; absorción del ruido directo por el vellón delantero, así como absorción del ruido reflejado por el techo mediante un vellón adicional trasero; con ello gran rendimiento acústico; para la integración en el sistema suspendido MOVE IT 25, compuesto de uniones y perfiles de 1220 mm de largo

Quickinfo

PET felt
♻ from recycled material
up to absorption class A

Types

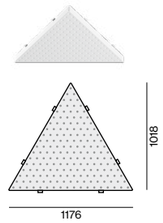


Colours

Order options

MATERIAL COLOUR

○ white	W
● black	L

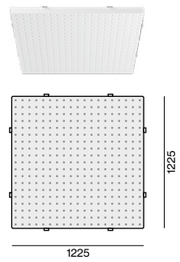


MOVE IT 25 suspended

MOVE IT ACOUSTIC TRIANGLE

TYPE	L·W·H (mm)	ORDER CODE
1200 inlay MOVE IT system*	1176·1018·57	0 5 0 - 2 3 0 1 2 2

*NODE connector + track 1220 mm

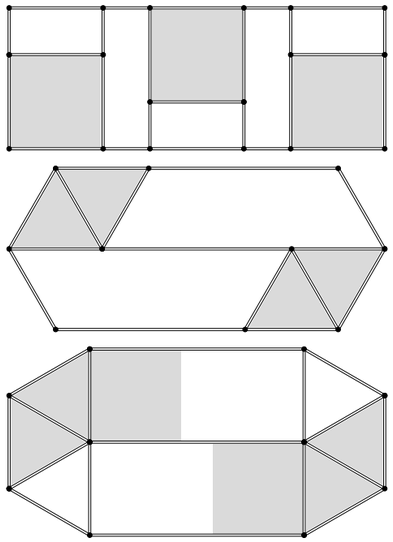


MOVE IT ACOUSTIC SQUARE

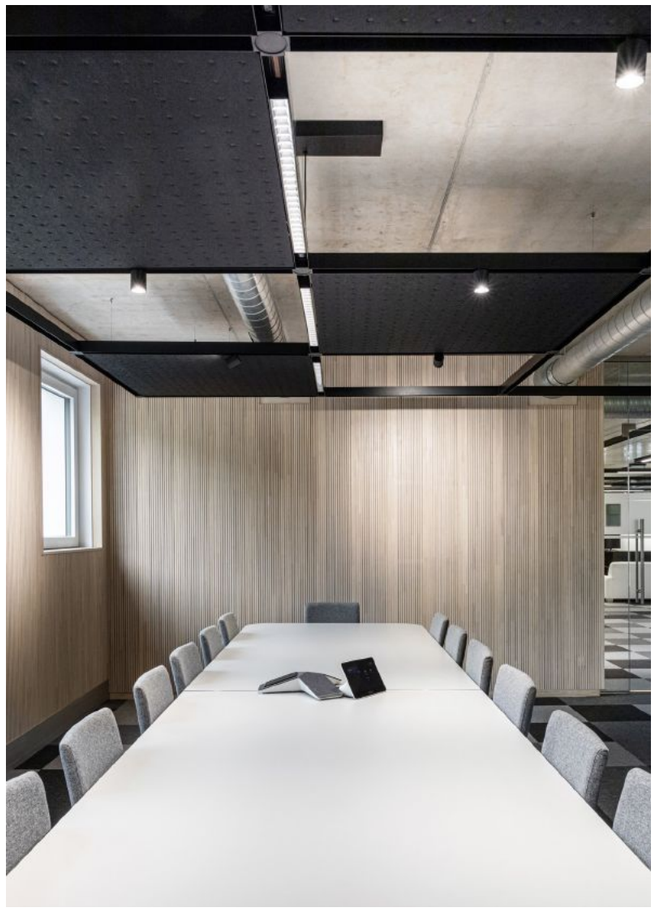
TYPE	L·W·H (mm)	ORDER CODE
1200 inlay MOVE IT system*	1225·1225·57	0 5 0 - 2 3 0 2 2 2

*NODE connector + track 1220 mm

ACOUSTIC EXAMPLES

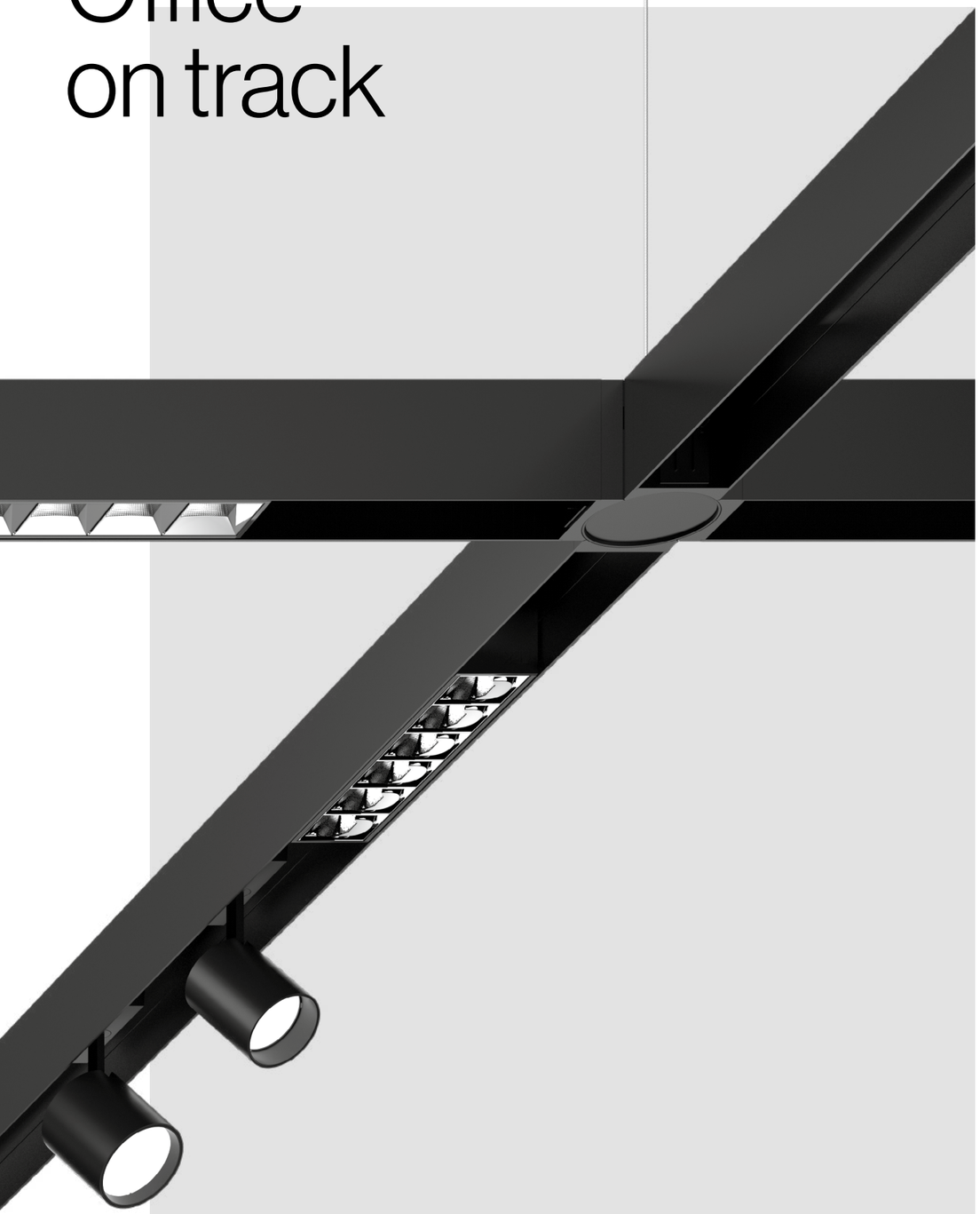


has-to-be gmbH
Radstadt, AT



FlexOffice, Messeturm Basel
Basel, CH

Office on track



MOVE IT 45 system

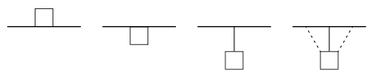
EN MOVE IT 45 offers glare-free office lighting with the flexibility of a track system. It is available as a suspended version, or as a recessed or surface-mounted variant for wall or ceiling mounting. Indirect light for homogeneous ceiling illumination is available as an option. The profiles are connected using corner elements or NODE connectors. Spotlights, linear office insets, and decorative luminaires are installed in the system without tools and can be flexibly adapted to changes in the room. With just one track system and the appropriate insets, completely different areas in the office – such as workstations, meeting rooms, and corridors – can be individually illuminated and controlled. Square acoustic elements that can be optionally integrated additionally create balanced room acoustics.

ES Iluminación de oficina libre de deslumbramientos, tan flexible como un sistema de carril: MOVE IT 45 está disponible en variantes empotradas o de superficie para el montaje en pared o techo y también como versión suspendida, dotadas opcionalmente con una proporción de luz indirecta para una iluminación homogénea del techo. Los perfiles se unen entre sí mediante conectores NODE. Proyectores, elementos de oficina lineales y luminarias decorativas pueden montarse en el sistema sin necesidad de herramientas y adaptarse con flexibilidad a las modificaciones del espacio. Con un solo sistema de carril y los elementos adecuados es posible iluminar y controlar diversas zonas de la oficina –tales como los puestos de trabajo, las salas de reunión y los pasillos– de un modo totalmente individualizado. Unos elementos acústicos cuadrados de integración opcional generan además una acústica ambiental equilibrada.

Type

45

Mountings

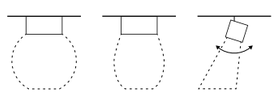


trimless recessed | ceiling | suspended | indirect suspended

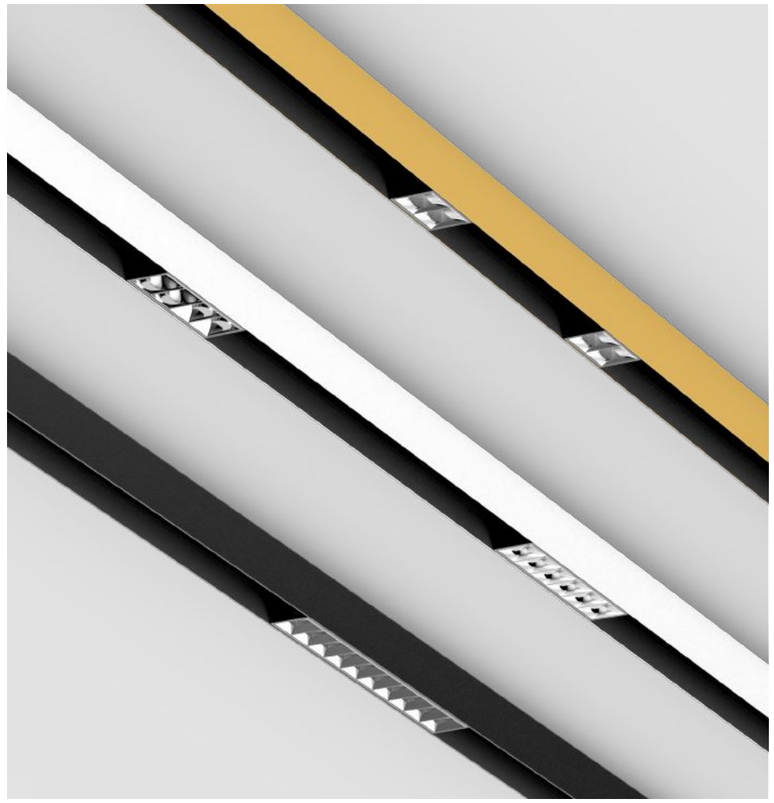
Configurations

linear | corner | node

Light distributions



opal | reflector (UGR ≤ 19) | spotlight



Colour variety

EN MOVE IT profiles are available in various standard colours. Further colour variations are also available, granting your project maximum design freedom. You can learn more about our colour palette at xal.com/colours.

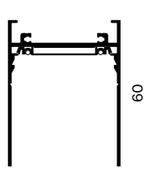
ES Los perfiles MOVE IT están disponibles en diversos colores estándar. Además existen otras variantes de color disponibles, lo que le proporciona la máxima libertad de diseño para su proyecto. Hallará más información sobre nuestra paleta de colores en xal.com/colours.

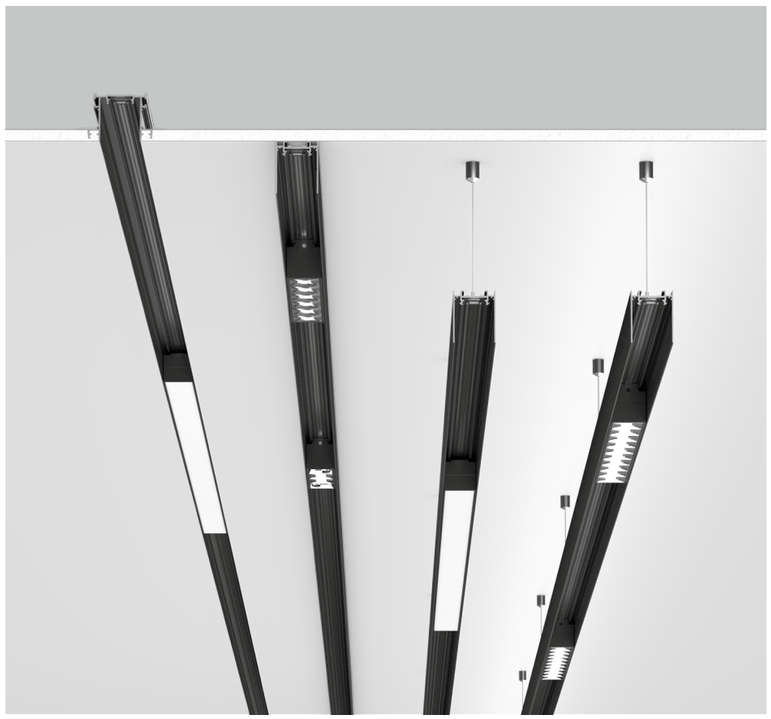
xal.com/colours

Mounting options

EN The elegant MOVE IT 45 System offers a wide variety of installation options: as a trimless recessed or surface-mounted variant for wall or ceiling mounting and suspended. The suspended direct/indirect variant provides additional homogeneous ceiling illumination.

ES El elegante sistema MOVE IT 45 ofrece una gran variedad de posibilidades de montaje, con versiones empotradas y de superficie sin marco para el montaje en pared o techo y otra de suspensión. La versión de suspensión Direct / Indirect garantiza una iluminación homogénea adicional del techo.

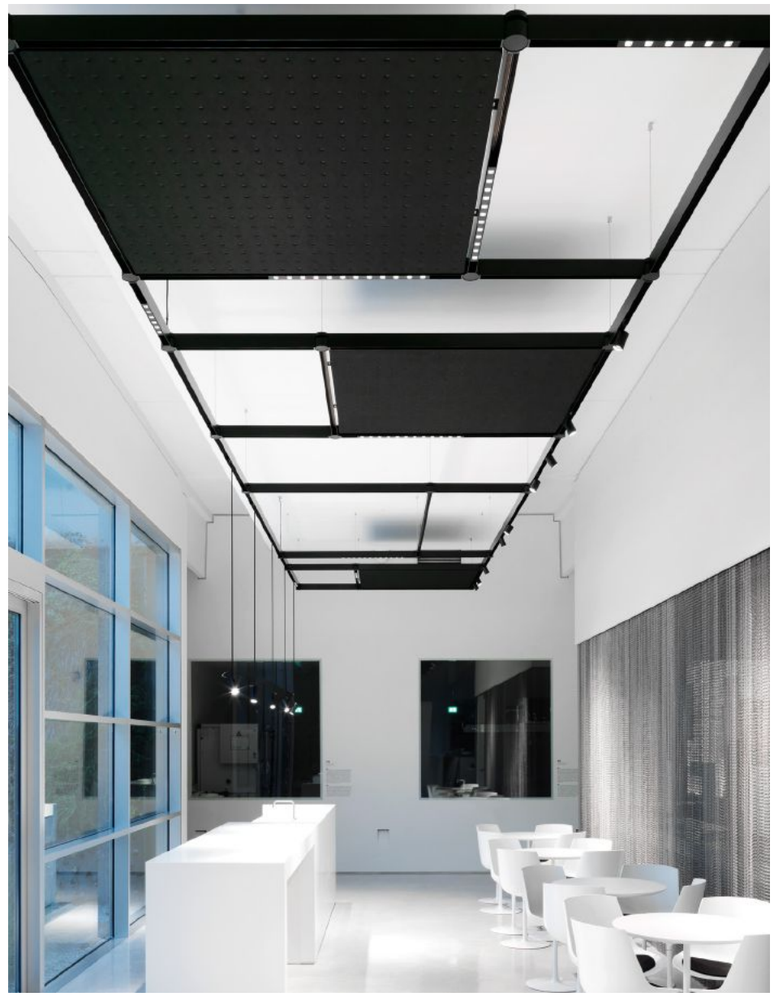




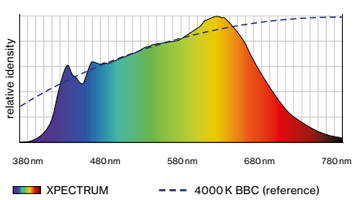
Individual grids & room acoustics

EN The NODE Connector lets you create different ceiling patterns from up to four MOVE IT 45 profiles per node. Create attractive geometric shapes by connecting the profiles at a 90° angle. Special corner connectors that are rotated 35° to the left and right provide even more design freedom. Simply extend the MOVE IT Suspended System with square acoustic elements for optimised room acoustics.

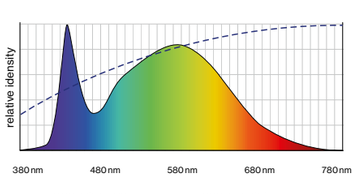
ES NODE Connector le permite crear distintos patrones de techo con hasta cuatro perfiles MOVE IT 45 por nodo. Conectando los perfiles en un ángulo de 90° se obtienen atractivas formas geométricas. Para una mayor libertad de diseño pueden utilizarse conectores de esquinas especiales que pueden girarse 35° a izquierda y a derecha. Para una mayor optimización de la acústica ambiental, el sistema MOVE IT Suspended puede ampliarse sencillamente con elementos acústicos cuadrados.



XPECTRUM LED



Commercially available LED 4000 K



Full-spectrum LED

EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 R_f = 98 and R_g = 101 further helps visual comfort. These LEDs are available for different MOVE IT System insets and indirect insets.

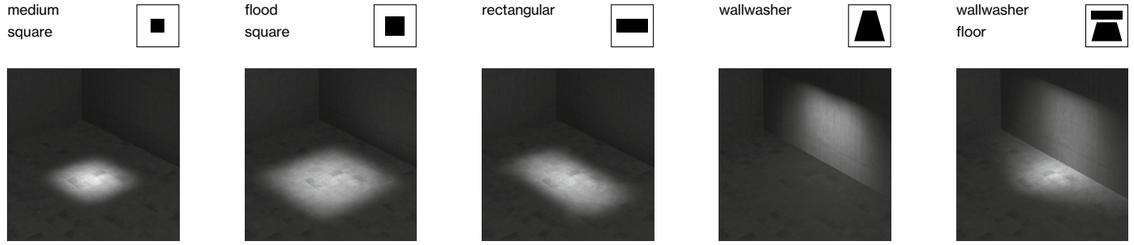
ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices R_f = 98 y R_g = 101 según la norma IES TM-30-15– garantiza una mayor comodidad visual. Este LED se encuentra a su disposición para el uso con distintos insertos y elementos de luz indirecta del sistema MOVE IT.

Variety of office reflector insets

EN Office lighting faces various requirements, ranging from standards for workplace lighting (UGR ≤ 19), homogeneous basic illumination, to spot accentuation. Changing the design or use of office space also requires a flexible lighting solution. MOVE IT 45 responds to this with a wide range of lighting insets that are easily installed and replaced in the track system.

ES La iluminación de oficinas está sometida a requisitos diversos que abarcan desde una iluminación de puestos de trabajo adaptada a la normativa (UGR ≤ 19) y un alumbrado general homogéneo, hasta la acentuación mediante proyectores. Las diversas distribuciones o usos de las oficinas también hacen necesaria una solución de iluminación flexible. A esto responde MOVE IT 45 con unos elementos de iluminación variados que pueden montarse en el sistema de carriles y sustituirse fácilmente.

Light optics

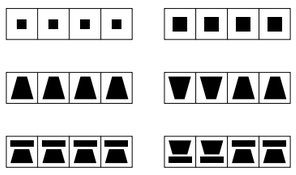


Inset variety

L1 Applications

L2 Applications

L4 Applications



L6 Applications

L10 OFFICE UGR ≤ 19

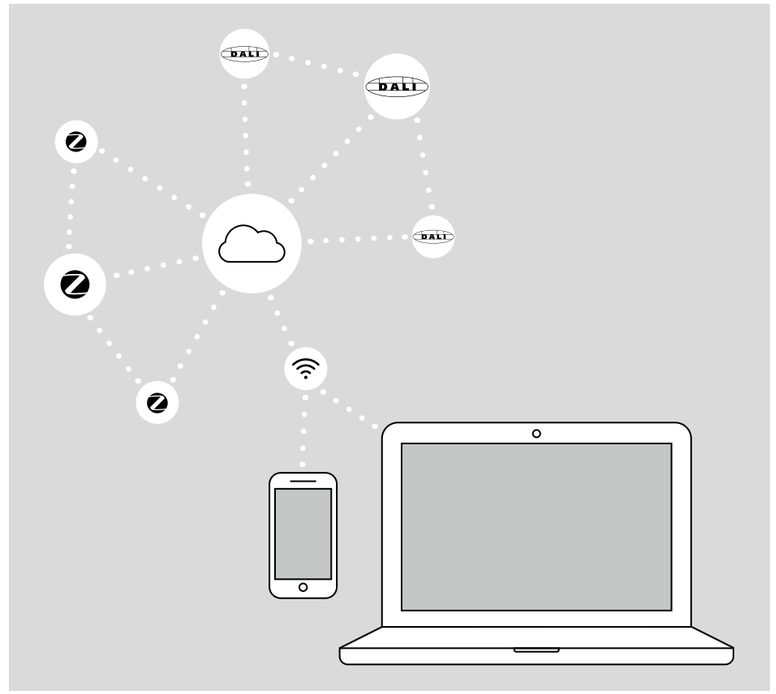
L24 OFFICE UGR ≤ 19

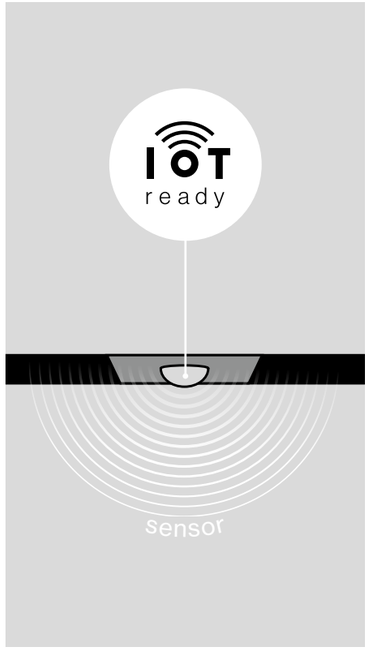
OPAL

Control options

EN MOVE IT Insets are available with DALI-2 and can be controlled individually. Configuration and control are simply done via DALI. As the open DALI communication standard is fully supported, all compatible luminaires can be easily integrated into the system. The Wireless-to-DALI Inset enables wireless control of DALI luminaire systems by using a communication module.

ES Los insertos MOVE IT están disponibles con DALI-2 y pueden controlarse individualmente. La configuración y el control se efectúan fácilmente a través de DALI. Ya que el sistema admite totalmente el uso del estándar de comunicación abierto DALI, todas las luminarias compatibles pueden integrarse en él con facilidad. El inserto “Wireless to DALI” posibilita el control sin cable de sistemas de luminarias DALI utilizando un módulo de comunicación.

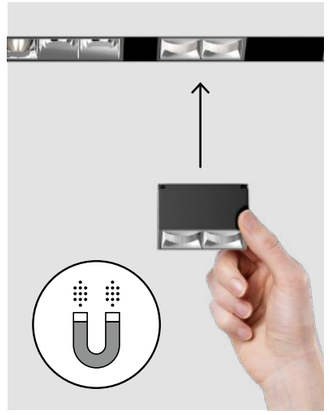




IoT ready

EN IoT ready refers to the possibility of equipping luminaires with smart sensor technology. You receive valuable information, such as your lighting system’s energy consumption or your rooms’ utilisation over the day. You can set shut-off delay times and brightness values or plan time-controlled light sequences. The sensor is magnetically inserted into the track system like a spotlight and can be individually configured without restriction by existing standards.

ES “IoT ready” indica la posibilidad de equipar a las luminarias con sensores inteligentes. Esto le permitirá obtener información valiosa, tal como el consumo de energía de su sistema de iluminación o el grado de utilización de las salas en el transcurso del día. También es posible establecer tiempos de desconexión y valores de luminosidad, así como programar transiciones luminosas reguladas por temporizador. El sensor se fija magnéticamente al sistema de carriles como un foco, y puede configurarse de forma totalmente individual sin ningún tipo de restricciones por estándares existentes.



Magnetic attachment

EN MOVE IT Insets are mounted without tools and magnetically fixed within the profile. They can, therefore, be adjusted and adapted according to the lighting requirements with just one movement.

ES Los elementos en el MOVE IT se montan sin herramientas y se fijan magnéticamente en el interior del perfil. Esto les permite ajustarse y adaptarse con total facilidad según los requisitos de la iluminación.

MOVE IT 45 system

trimless / surface / suspended

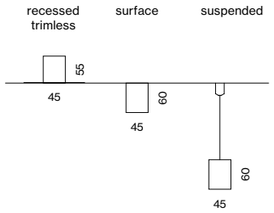
EN Extruded aluminium profile with 45 mm width groove; for trimless installation in plasterboard ceilings (wall or ceiling mounting) with 12.5 mm ceiling thickness; or for wall-/ceiling surface mounting or suspended mounting (cable suspension, height adjustment without tools, incl. black feed); optional with indirect light component for additional accentuation of the ceiling; for lighting systems, 90° angle connectors for flexible system design; node connectors, up to 4 profile connection options; with power track profile for take off of supply voltage and DALI signal; surf. anod. or powder coated; insets can be installed flexibly and without tools by means of magnetic holders + locking; sound absorbing accessories available

ES Perfil de alum. extruido con ancho de junta de 45 mm; para encastre sin bordes en planchas de yeso laminado (montaje pared o techo) de 12,5 mm de espesor; o para montaje en pared/techo o suspendido (suspensión por cable, ajuste de altura sin herramienta, cable de alim. negro incluido); componentes de luz indir. opcionales para realce adicional del techo; para sistemas de iluminación, conect. angul. de 90° para la configur. flexible del sistema; conector de nodos, conex. de hasta 4 perfiles; con perfil de carril electrif. para toma de suministro eléctr. y señal DALI; superficie anodiz. o recub. de pintura en polvo; montaje flexible y sin herram. de los elem. de luz mediante un soporte magnético con bloqueo; accesorios absorb. del ruido disponibles

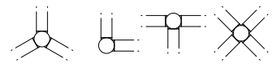
Quickinfo

3000 K
CRI ≥ 90, 2 SDCM
up to 117 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



connectors



corner

Colours

standard xal.com/colours

custom cut on building site

acoustic elements (p. 806)

Order options

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

● jet black RAL 9005

Options on request

CONNECTOR

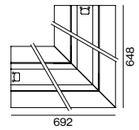
T-connector
X-connector

INSTALLATION TRACK

acoustic soft ceilings

MOVE IT 45 trimless

DALI-2 | 48V | TRACK max. 6,67 A | pending | CB pending

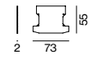


INSTALLATION TRACK

L (mm)		ORDER CODE
617	channel	050-72320 ⇕ 8
1217	channel	050-72340 ⇕ 8
2417	channel	050-72380 ⇕ 8
3622	channel	050-72390 ⇕ 8
cust. cut	channel (non DIM)	E83551 · · · · 8
cust. cut	channel (DALI-2)	E83521 · · · · 8
692x648	channel corner* 90°	050-72310 ⇕ 8
661x661	channel corner* ceiling to wall 90°	050-72311 ⇕ 8

*incl. electrical connector set

Accessories



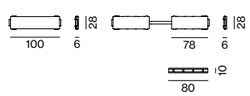
END CAPS

TYPE	ORDER CODE
end caps (pair)	050-7230008

BLIND COVER

L (mm)	ORDER CODE
1217	050-7034008
2417	050-7038008
3622	050-7039008
custom cut	E83500 · · · · 8B

blind cover can be shortened as desired



CONNECTOR SET

TYPE	ORDER CODE
linear connector (non DIM, DALI-2)	050-2031130
linear connector flexible	050-20321 ⇕ 0
mechanical linear connector (pair)	050-2011110

POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2 × 2,5 mm²	050-2020110
DALI-2 2 × 2,5 + 2 × 0,5 mm²	050-2020130

cable length 500 mm

Electrical accessories

see page 788

back

Order options

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR INSTALLATION TRACK

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
◒ gold dust 260-M / jet black 9005	G
special colours* ➔ p.335	X

*inside always in black

MATERIAL COLOUR NODE CONNECTOR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p.992	X

MATERIAL COLOUR NODE LTX / END CAP

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
special colours ➔ p.992	X

MATERIAL COLOUR ACCESSORIES

○ traffic white RAL 9016	7
● jet black RAL 9005	8

NODE CONNECTOR MOUNTING TYPE

surface*	1
1500 mm cable susp. chrome	3
1500 mm cable susp. black	4

*only for L/T/X

MATERIAL COLOUR CABLE SUSPENSION

chrome	0
black	8

Electrical accessories

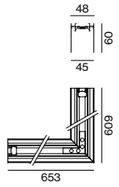
see page 788

Acoustic elements

see page 806

MOVE IT 45 surface / suspended

DALI-2 · 48V · TRACK max. 6,67 A



INSTALLATION TRACK

L (mm)		ORDER CODE
620	channel	050-733320
1220	channel	050-733340
2420	channel	050-733380
3625	channel	050-733390
cust. cut	channel (non DIM)	E83561
cust. cut	channel (DALI-2)	E83531
653x609	channel corner* 90°	050-733310
661x661	channel corner* ceiling to wall 90°	050-733311

*incl. electrical connector set

Accessories

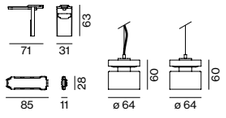
END CAPS

TYPE	ORDER CODE
end caps (pair)	050-733000

BLIND COVER

L (mm)	ORDER CODE
1217	050-703400 8
2417	050-703800 8
3622	050-703900 8
custom cut	E83500 8B

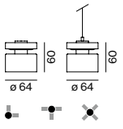
blind cover can be shortened as desired



FLEX NODE CONNECTOR

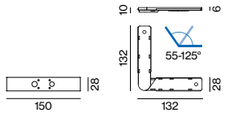
TYPE	ORDER CODE
FLEX NODE surface mounted	050-203333
FLEX NODE surface mounted incl. feeder	050-202243
FLEX NODE cable suspension 1500 mm	050-203311
FLEX NODE cable susp. 1500 mm incl. feeder	050-202220
NODE end cap* incl. electrical connector	050-733010

*order for every node connection (channel to node) 1 end cap



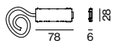
FIX NODE CONNECTOR

TYPE	ORDER CODE
L NODE incl. end cap & electrical connector	050-733540
T NODE incl. end cap & electrical connector	050-733520
X NODE incl. end cap & electrical connector	050-733530



CONNECTOR SET

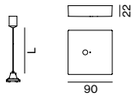
TYPE	ORDER CODE
mechanical linear conn. incl. 1500 mm cable susp.	050-201131
mechanical linear connector surface	050-201121 0
mechanical & electrical linear connector	050-203123 0
mechanical & electrical corner connector flex	050-203223 8



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2×2,5 mm²	050-202211 0
DALI-2 2×2,5 + 2×0,5 mm²	050-202213 0

cable length 2000 mm



CEILING FASTENER / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling fastener	67	050-204121
cable suspension*	1500	005-215211
canopy		005-231121

*use every 1200 mm

Order options

COLOUR TEMPERATURE

3000 K	

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR INSTALLATION TRACK

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
◒ gold dust 260-M / jet black 9005	G
special colours* ➔ 992	X

*inside always in black

MATERIAL COLOUR NODE CONNECTOR

○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours ➔ p.992	X

MATERIAL COLOUR NODE LTX / END CAP

● jet black RAL 9005	8
◒ traffic white 9016 / jet black 9005	P
special colours ➔ p.992	X

MATERIAL COLOUR ACCESSORIES

○ traffic white RAL 9016	7
● jet black RAL 9005	8

NODE CONNECTOR MOUNTING TYPE

surface*	1
1500 mm cable susp. chrome	3
1500 mm cable susp. black	4

*only for L/T/X

MATERIAL COLOUR CABLE SUSPENSION

chrome	0
black	8

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM	

COLOUR TEMPERATURE

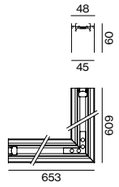
2700 K	
4000 K	
tunable white 2700 – 6500 K*	

*DALI-2 DT8

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white / black

MOVE IT 45 suspended indirect

CRI ≥ 90 · DALI-2 · 48V · TRACK max. 6,67 A



INSTALLATION TRACK INDIRECT

L (mm)	SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
620	6.2 W	638 lm	050-743254
1220	15 W	1790 lm	050-743454
2420	33 W	3830 lm	050-743854
3625	50 W	5745 lm	050-743954
653x609 corner*	13 W	1420 lm	050-743104

no custom cut on building side; *incl. electrical connector set

Accessories

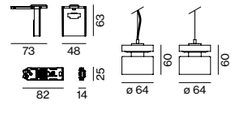
END CAPS

TYPE	ORDER CODE
end caps (pair)	050-733000

BLIND COVER

L (mm)	ORDER CODE
1217	050-703400 8
2417	050-703800 8
3622	050-703900 8
custom cut	E83500 8B

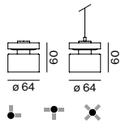
blind cover can be shortened as desired



FLEX NODE CONNECTOR

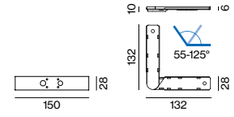
TYPE	ORDER CODE
FLEX NODE cable suspension 1500 mm	050-203314
FLEX NODE cable susp. 1500 mm incl. feeder	050-202224
NODE end cap* incl. electrical connector	050-733010

*order for every node connection (channel to node) 1 end cap



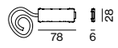
FIX NODE CONNECTOR

TYPE	ORDER CODE
L NODE incl. end cap & electrical connector	050-733544
T NODE incl. end cap & electrical connector	050-733524
X NODE incl. end cap & electrical connector	050-733534



CONNECTOR SET

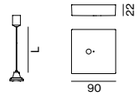
TYPE	ORDER CODE
mechanical linear conn. incl. 1500 mm cable susp.	050-201131
mechanical & electrical linear connector	050-203123 0
mechanical & electrical corner connector flex	050-203223 8



POWER FEEDER UNIT

TYPE	ORDER CODE
non DIM 2×2,5 mm²	050-202211 0
DALI-2 2×2,5 + 2×0,5 mm²	050-202213 0

cable length 2000 mm



CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
cable suspension*	1500	005-215211
canopy		005-231121

*use every 1200 mm

Electrical accessories

see page 788

Acoustic elements

see page 806

back

Order options

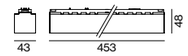
CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

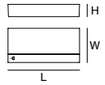
Electrical accessories



POWER SUPPLY INTRACK supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L·W·H (mm)	ORDER CODE
150 W ▣ PC II	η 92 %	intrack	453·43·48	050-207123 8
250 W ▣ PC II	η 93 %	intrack	453·43·48	050-207133 8

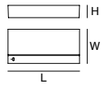
ENEC approved, incl. feeder cable 2000 mm; DALI-2 SELV device integrated



POWER SUPPLY SURFACE supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L·W·H (mm)	ORDER CODE
60 W ▣ PC II	η 88 %	surface	305·144·54	050-20551
100 W ▣ PC II	η 92 %	surface	455·104·40	050-20554
150 W ▣ PC II	η 92 %	surface	455·104·40	050-20552
250 W ▣ PC II	η 93 %	surface	455·104·40	050-20555
320 W ⏚ PC I	η 94 %	surface	305·144·54	050-20553

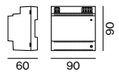
ENEC approved, incl. feeder cable 2000 mm; DALI-2 SELV device integrated



POWER SUPPLY EXTERNAL supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L·W·H (mm)	ORDER CODE
60 W ▣ PC II	η 88 %	external	163·43·32	002-62133
100 W ▣ PC II	η 92 %	external	350·30·18	002-62134
150 W ▣ PC II	η 92 %	external	350·30·18	002-62135
250 W ▣ PC II	η 93 %	external	400·40·22	002-62139
320 W ⏚ PC I	η 94 %	external	252·90·44	002-60320

ENEC approved, incl. feeder cable 2000 mm



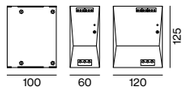
DIN RAIL POWER SUPPLY BASIC 48 V

220–240 V | 50–60 Hz | ▣ PC II | MTBF @ 55° ambient temperature

TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
96 W	η 89 % / > 300.000 h	90·90·60	005-65200 10

DIN RAIL POWER SUPPLY PRO 48 V

220–240 V | 50–60 Hz | ⏚ PC I | MTBF @ 55° ambient temperature
cascadable max. 5 devices (240 W) or 3 devices (480 W)



TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
240 W	η 92 % / > 400.000 h	60·125·100	005-62201 10
480 W	η 93 % / > 350.000 h	120·125·100	005-62202 10

DALI-2 SELV DEVICE

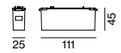
TYPE	L·W·H (mm)	ORDER CODE
control unit	213·37·25	050-20611 30

necessary to create DALI-2 SELV signal; DALI power supply integrated

DALI-2 SENSOR

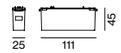
TYPE	L·W·H (mm)	ORDER CODE
ESSENTIAL sensor (brightness & presence)	43·43·48	050-20633 78
SENSE sensor (brightness, presence, temperature, sound pressure, humidity, CO_2)	43·43·48	050-20632 78

WIRELESS TO DALI-2 CONTROL DEVICE



TYPE	L·W·H (mm)	ORDER CODE
Zigbee 3.0	111·25·45	050-20651 30
Casambi	111·25·45	050-20652 30

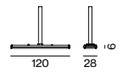
WIRELESS TO DALI-2 REPEATER



TYPE	L·W·H (mm)	ORDER CODE
Zigbee 3.0	111·25·45	050-20661 30
Casambi	111·25·45	050-20662 30

DALI-2 SELV device required

MIDDLE FEED



TYPE	ORDER CODE
non DIM 2 × 2,5 mm²	050-20381 10
DALI-2 2 × 2,5 + 2 × 0,5 mm²	050-20381 30

cable length 2000 mm

Creative Lab Barcelona, ES –
by M2ARQUITECTURA SCP
Tables designed by James Burleigh

LIGHT INSET 45

linear inset 45

Quickinfo

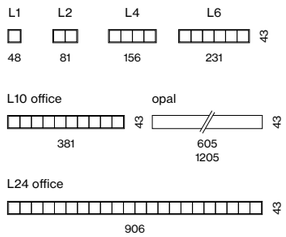
3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
DALI-2

L85 @ 50 000 h
opal / opal jut-out up to 99 lm/W
microprism. (≤ 19) up to 88 lm/W
microprism. (≤ 22) up to 78 lm/W

L80 @ 50 000 h
UGR ≤ 19 / 65° ≤ 1500 cd/m²
L1 up to 106 lm/W
L2 up to 97 lm/W
L4 up to 104 lm/W
L6 up to 90 lm/W

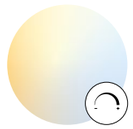
L90 @ 50 000 h
UGR ≤ 19 / 65° ≤ 1500 cd/m²
L10 office up to 102 lm/W
L24 office up to 120 lm/W

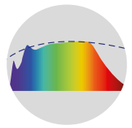
Types



Colour

Light distributions





Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 5000 K*	D

*DALI-2 DT8

CONTROL

DALI-2

MATERIAL COLOUR

● jet black RAL 9005

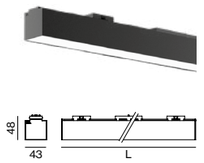
Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

CONTROL

Zigbee 3.0

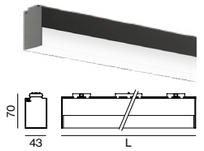


LIGHT INSET 45

CRI ≥ 90 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V | FLICKER FREE | pending | CB pending

OPAL HIGH PERFORMANCE

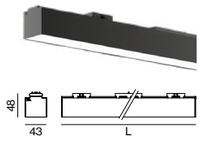
INSET POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	3000 K	1120 lm	605	0 5 0 - 3 2 1 2 :: 38H
	4000 K	1190 lm		
24 W	3000 K	2240 lm	1205	0 5 0 - 3 2 1 4 :: 38H
	4000 K	2380 lm		



CRI ≥ 90 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V

OPAL JUT-OUT

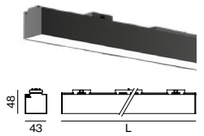
INSET POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12 W	3000 K	1120 lm	605	0 5 0 - 3 2 1 2 :: 38J
	4000 K	1190 lm		
24 W	3000 K	2240 lm	1205	0 5 0 - 3 2 1 4 :: 38J
	4000 K	2380 lm		



UGR ≤ 19 | CRI ≥ 90 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V

MICROPRISMATIC UGR ≤ 19

INSET POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
9.9 W	3000 K	704 lm	605	0 5 0 - 3 2 1 2 :: 38P
	4000 K	751 lm		
17 W	3000 K	1410 lm	1205	0 5 0 - 3 2 1 4 :: 38P
	4000 K	1500 lm		



UGR ≤ 22 | CRI ≥ 90 | RG 0 IEC 62471 | DALI 1 ADDR. | 48 V

MICROPRISMATIC UGR ≤ 22

INSET POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
23 W	3000 K	1640 lm	605	0 5 0 - 3 2 4 2 :: 38P
	4000 K	1750 lm		
45 W	3000 K	3280 lm	1205	0 5 0 - 3 2 4 4 :: 38P
	4000 K	3500 lm		

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

back

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700–5000 K*	D

*DALI-2 DT8

CONTROL

DALI-2

LIGHT OPTIC

medium square (UGR ≤ 10)	E
flood square (UGR ≤ 19)	F

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

MATERIAL COLOUR

● jet black RAL 9005

Options on request

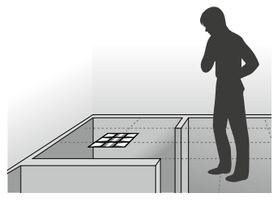
LIGHT OPTIC

- spot round
- narrow medium round
- medium round (UGR ≤ 19)
- medium square (UGR ≤ 10)
- flood round (UGR ≤ 19)
- flood square (UGR ≤ 19)
- wide flood round
- wide flood square
- rectangular
- wallwasher
- wallwasher floor

LIGHT OPTIC COLOUR

gold reflector

Planning information



The icons of the light optics are shown in the reflected ceiling plan (RCP) view.

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black, reflector chrome

L1 LIGHT INSET

UGR ≤ 10 · cd/m² ≤ 1500 · CRI ≥ 90 · DALI 1 ADDR. · 48 V

FLOOR

48 / 48x43

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
3.4 W	3000 K	up to 338 lm	090-9L1 :: 3 ▲ B ◪ 01
	4000 K	up to 361 lm	

choose one light optic ▲ from the options on the left depending on your room needs

L2 LIGHT INSET

CRI ≥ 90 · DALI 1 ADDR. · 48 V

WALL
2 × wallwasher

48 / 81x43

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6.9 W	3000 K	590 lm	090-9L2 :: 3 A B 001
	4000 K	633 lm	

WALL FLOOR
2 × wallwasher floor

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6.9 W	3000 K	620 lm	090-9L2 :: 3 W B ◪ 01
	4000 K	662 lm	

CORRIDOR
2 × rectangular

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
6.9 W	3000 K	624 lm	090-9L2 :: 3 R B ◪ 01
	4000 K	667 lm	

L4 LIGHT INSET

UGR ≤ 10 · CRI ≥ 90 · cd/m² ≤ 1500 · DALI 1 ADDR. · 48 V

FLOOR / CORRIDOR

48 / 156x43

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	up to 1350 lm	090-9L4 :: 3 ▲ B ◪ 01
	4000 K	up to 1450 lm	

choose one light optic ▲ from the options on the left depending on your room needs

WALL
4 × wallwasher

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1180 lm	090-9L4 :: 3 A B 001
	4000 K	1270 lm	

WALL
2 × wallwasher 180° + 2 × wallwasher

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1180 lm	090-9L4 :: 3 A B 002
	4000 K	1270 lm	

WALL FLOOR
4 × wallwasher floor

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1240 lm	090-9L4 :: 3 W B ◪ 01
	4000 K	1320 lm	

WALL FLOOR
2 × wallwasher floor 180° + 2 × wallwasher floor

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
14 W	3000 K	1240 lm	090-9L4 :: 3 W B ◪ 02
	4000 K	1320 lm	

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700–5000 K*	D

*DALI-2 DT8

CONTROL

DALI-2

LIGHT OPTIC COLOUR

chrome reflector	0
black reflector*	B

*not available for spot round, narrow medium round and wallwasher

MATERIAL COLOUR

● jet black RAL 9005

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM*

*only for L24 light inset

LIGHT OPTIC

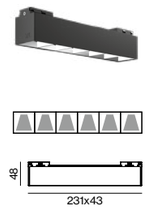
- spot round
- narrow medium round
- medium round (UGR ≤ 19)
- medium square (UGR ≤ 10)
- flood round (UGR ≤ 19)
- flood square (UGR ≤ 19)
- wide flood round
- wide flood square
- rectangular
- wallwasher
- wallwasher floor

LIGHT OPTIC COLOUR

gold reflector

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black, reflector chrome

L6 LIGHT INSET



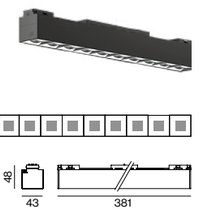
CRI ≥ 90 · DALI 1 ADDR. · 48 V

WALL
6 × wallwasher

48 / 231x43

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21 W	3000 K	1780 lm	090-9L6 :: 3 A B 001
	4000 K	1900 lm	

L10 LIGHT INSET



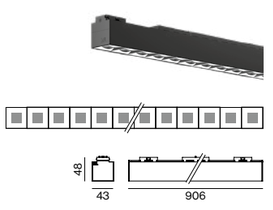
UGR ≤ 19 · cd/m² ≤ 1500 · CRI ≥ 90 · DALI 1 ADDR. · 48 V · pending · CB pending

OFFICE UGR ≤ 19
10 × medium square

48 / 43 / 381

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30 W	3000 K	2840 lm	050-3211 :: 38 ◪ R
	4000 K	3060 lm	

L24 LIGHT INSET



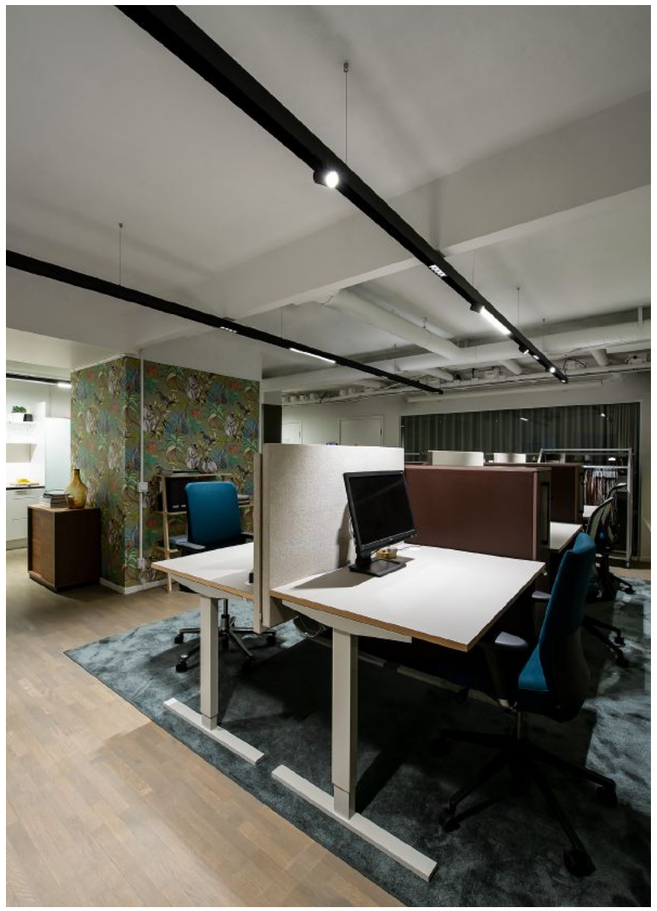
UGR ≤ 19 · cd/m² ≤ 1500 · CRI ≥ 90 · DALI 1 ADDR. · 48 V

OFFICE UGR ≤ 19
24 × medium square

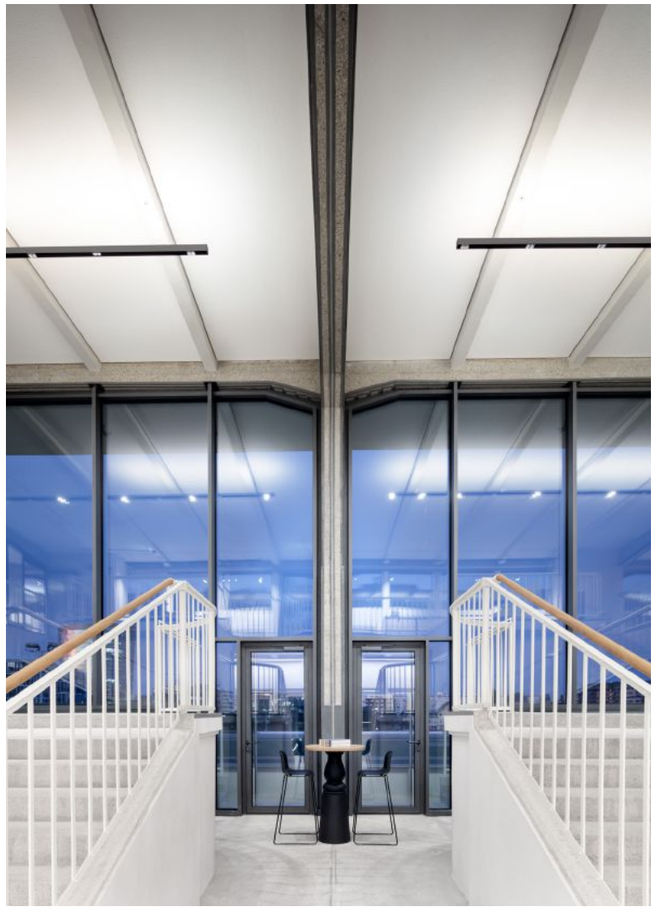
48 / 43 / 906

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
21 W	3000 K	2350 lm	050-3213 :: 38 R
	4000 K	2510 lm	

SENAB
Stockholm, SE –
by SENAB

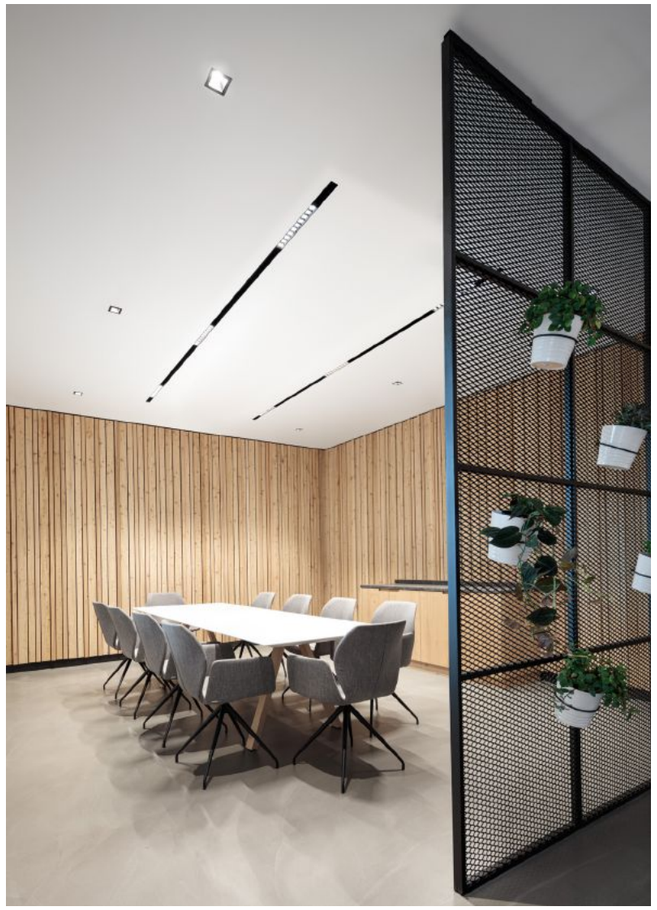


Tribünen der Trabrennbahn
Vienna, AT



Press Glass Headquarters
Konopiska, PL – by Konior Studio,
Tomasz Konior

Langzauner GmbH Ried im Innkreis, AT –
by Architektur Mugrauer ZT GmbH with
lighting design by planbox Interior Design GmbH



back

JUST 45 / 55

spotlight inset 45

Quickinfo

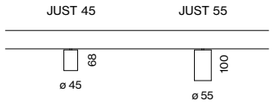
2700 K, 3000 K, 4000 K, CWD, TW
CRI ≥ 90, 2 SDCM

non DIM, DALI-2

L80 @ 50 000 h
JUST 45 up to 72 lm/W

L90 @ 50 000 h
JUST 55 up to 75 lm / W

Types

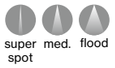


Colours

standard xal.com/colours

Light distributions

JUST 45



super spot, med., flood

JUST 55

spot, med., flood

ARY rod
p. 734

ARY shade
p. 736

TULA
p. 742

PAL
p. 748

TW 1800–3000 K
or 2700–6500 K

CWD
2000–3000 K

Order options

COLOUR TEMPERATURE

2700 K	4
3000 K	5
4000 K	6
colour warm dim. 2000–3000 K*	
tunable white 1800–3000 K**	
tunable white 2700–6500 K**	

*DALI-2 **DALI-2 DT8

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

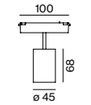
○ traffic white RAL 9016	7
● jet black RAL 9005	8
special colours p. 992	X

BEAM ANGLE JUST 45

medium 23°	M
flood 44°	F

BEAM ANGLE JUST 55

spot 16°	S
medium 28°	M
flood 37°	F

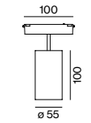


JUST 45

CRI ≥ 90 · DALI 1 ADDR. · 48 V · pending · CB pending

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.1 W super spot 8°	297 lm	050-0131 3 V
11 W	788 lm	050-0131
12 W CWD 2000–3000 K	430 lm	050-0131E3
11 W TW 1800–3000 K	555 lm	050-0131L3
11 W TW 2700–6500 K	683 lm	050-0131D3



JUST 55

CRI ≥ 90 · DALI 1 ADDR. · 48 V · pending · CB pending

SPOTLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
15.9 W	1300 lm	050-0143 3
30 W	2090 lm	050-0142 3

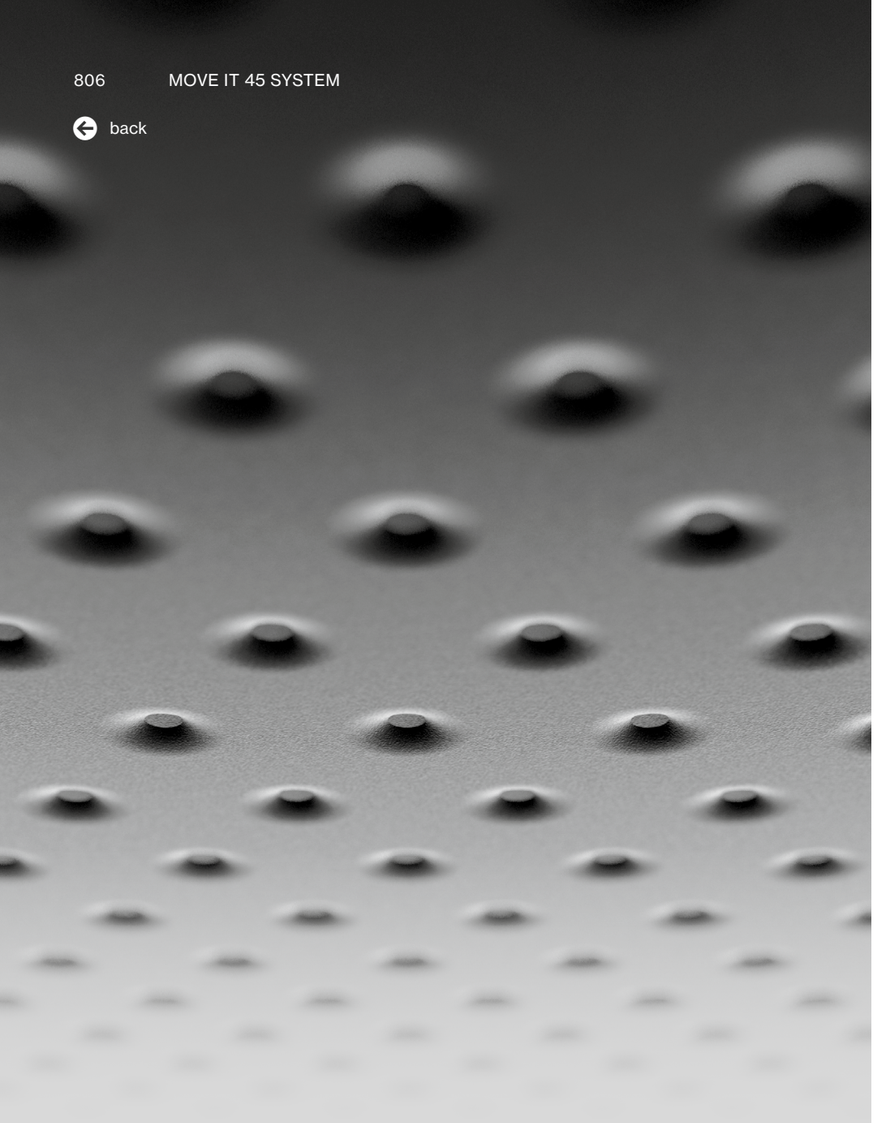
Optical accessories

HONEYCOMB LOUVER

TYPE	Ø·H (mm)	ORDER CODE
JUST 45	42·3	007-196518 8
JUST 55	50·3	007-196559 8

INSET POWER in watts is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens flood 2700 K -5 %, 4000 K +5%

The Raum Bolzano, IT –
by bergundtal gmbh.



ACOUSTIC elements

accessory 45

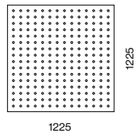
EN Highly effective acoustic element made of self-supporting, recycled PET felt; direct sound is absorbed by the front-mounted fleece, sound reflected from the ceiling by an additional, rear-mounted fleece; this creates high acoustic performance; for installation in the MOVE IT 45 suspended system composed of node connectors and 1220 mm profiles

ES Elemento acústico de alta eficacia fabricado de fieltro PET reciclado y autoportante; absorción del ruido directo por el vellón delantero, así como absorción del ruido reflejado por el techo mediante un vellón adicional trasero; con ello gran rendimiento acústico; para la integración en el sistema suspendido MOVE IT 45, compuesto de uniones y perfiles de 1220 mm de largo

Quickinfo

PET felt
♻ from recycled material
up to absorption class A

Type

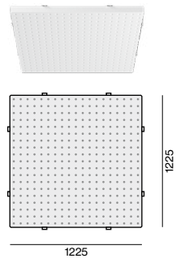


Colours

Order options

MATERIAL COLOUR

○ white	W
● black	L



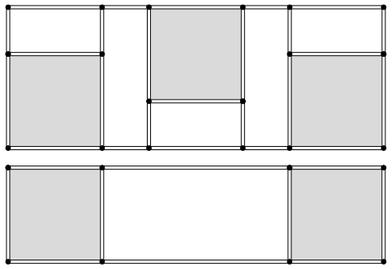
MOVE IT 45 suspended

MOVE IT ACOUSTIC SQUARE

TYPE	L·W·H (mm)	ORDER CODE
1200 inlay MOVE IT system*	1225·1225·57	0 5 0 - 2 3 0 2 2 2

*NODE connector + track 1220 mm

ACOUSTIC EXAMPLES



Ultra-slim office series

TASK system

EN In addition to impressive flexibility, the ultra-slim TASK series meets all requirements of modern office lighting. Innovative technology and highly efficient LEDs meet minimalistic design. Thanks to its microprismatic cover, TASK provides bright and glare-minimised work light. The product family with a shared sleek design is impressive: TASK can be expanded into a system via a click mechanism. The optional indirect light delivers pleasant ceiling illumination. Additional built-in sensors allow the TASK S system to adapt to motion and ambient brightness. The system can be expanded with optional acoustic elements to optimise room acoustics.

ES La serie ultraesbelta TASK satisface todos los requisitos de la moderna iluminación de oficinas, además de ofrecer una impresionante flexibilidad. Una tecnologia innovadora y unos LED extremadamente eficientes se combinan con un diseño minimalista. Gracias a su difusor microprismático, TASK emite una luz apta para espacios de trabajo y con un deslumbramiento mínimo. Esta familia de productos cautiva por su diseño esbelto y uniforme, pudiendo ampliarse con otros componentes en un sistema mediante un mecanismo de clic. La luz indirecta opcional proporciona una iluminación de techo agradable. El sistema TASK S y la luminaria de pie incorporan sensores de movimiento y de la luminosidad del entorno, para obtener una acústica ambiental óptima, el sistema puede ampliarse con elementos acústicos opcionales.

Types

1200 1800 2400 luminaire | 765 luminaire | 765 luminaire | 1200 acoustic | 1200 acoustic | 1200 acoustic | 1200 acoustic

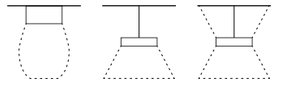
Mounting

suspended

Configurations

linear | corner | curve

Light distributions

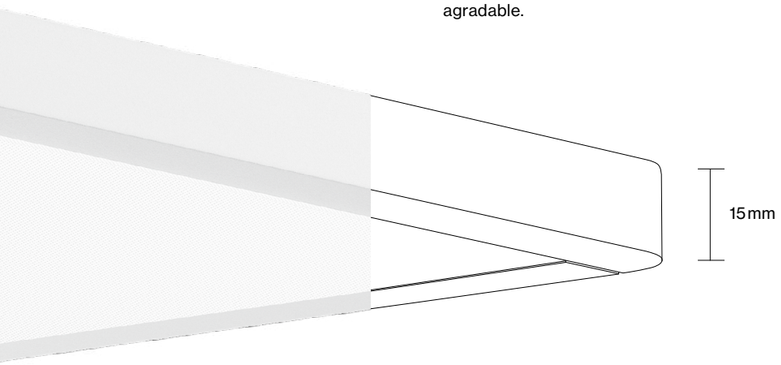


microprismatic (UGR ≤ 19) | direct | direct / indirect

Ultra-slim and versatile

EN TASK combines an ultra-slim design with innovative lighting technology. These include, in particular, an LGP (Light Guiding Prism), which directs the laterally coupled light from highly efficient LEDs upwards and downwards. It creates a pleasant room atmosphere through a balanced relationship between direct and indirect light.

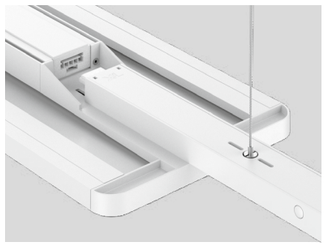
ES TASK combina un diseño ultrafino con una tecnología de iluminación innovadora. A esta pertenece, entre otros elementos, un prisma LGP (Light Guiding Prism) encargado de guiar hacia arriba y hacia abajo la luz acoplada lateralmente procedente de LED ultraeficientes. Esto crea una relación equilibrada entre la luz directa y la indirecta, que da como resultado una atmósfera interior agradable.



Simple click

EN Design freedom thanks to plug-in connections. Each TASK S system luminaire can be rearranged, combined, and electrically connected with just one click and without any tools. Whether office extension or interior redesign, this lighting system can handle any change.

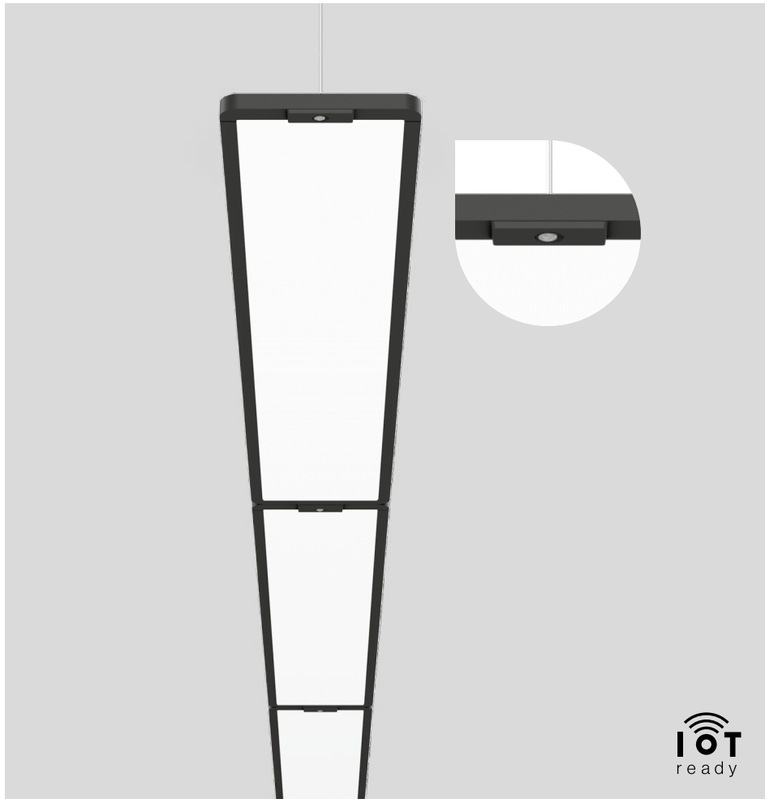
ES Libertad de configuración gracias a conexiones electromecánicas: cada luminaria de un sistema TASK S puede reordenarse, combinarse y conectarse eléctricamente sin necesidad de herramientas con un solo clic. Y, en caso de que se deba ampliar la oficina o rediseñar el espacio existente, el sistema de iluminación es capaz de adaptarse fácilmente a cualquier modificación.



Pleasant room acoustics

EN In addition to lighting, pleasant room acoustics have an impact on job satisfaction. Acoustic element panels in different colours and made of 60 % recycled PET complement the TASK series and reduce background noise around the office. For focused, productive work.

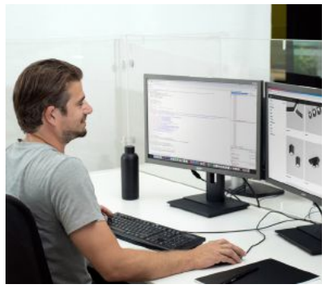
ES Además de la iluminación, una acústica ambiental agradable influye en nuestra confortabilidad en el lugar de trabajo. Unos paneles acústicos en distintos colores fabricados de un 60 % de PET reciclado completan la serie TASK y reducen el ruido ambiental en la oficina. Para un trabajo concentrado y productivo.



Advanced sensor technology

EN The TASK S system luminaire adapts to daylight and room activity. Integrated motion sensors automatically dim the lighting when no one is in the room. Smart movement sensors enable the light intensity to be adjusted to the ambient brightness. This saves energy and creates a dynamic, natural lighting atmosphere.

ES La luminaria de sistema TASK S se adapta a la luz del día y a la actividad de la sala. Los sensores de movimiento integrados atenúan automáticamente la iluminación cuando la sala está vacía. Unos sensores Daylight inteligentes permiten adaptar la intensidad luminosa a la luminosidad del entorno. Esto ahorra energía y crea un ambiente luminoso dinámico y natural.



Screen-work friendly

EN TASK guarantees standard-compliant illumination of workplaces with custom anti-glare prisms. An ideal light source for double workstations in open-plan offices and for single workstations in smaller offices – all with reduced reflections.

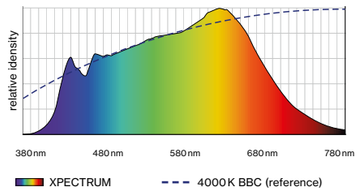
ES TASK garantiza una iluminación de puestos de trabajo adaptada a la normativa mediante el uso de prismas especiales antideslumbrantes. Una fuente de luz ideal para puestos de trabajo dobles en oficinas de gran tamaño, pero también para puestos de trabajo individuales en oficinas pequeñas, y además con mínimos reflejos.

Full-spectrum LED

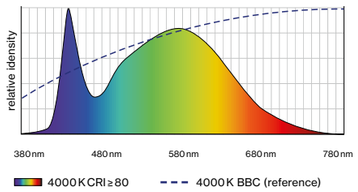
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 R_f = 98 and R_g = 101 further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices R_f = 98 y R_g = 101 según la norma IES TM-30-15– garantiza una mayor comodidad visual.

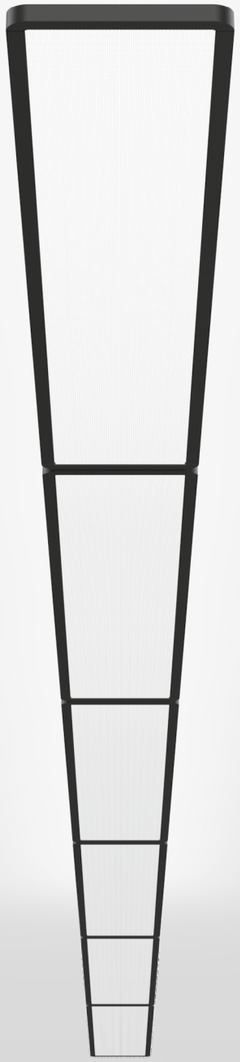
XPECTRUM LED



Commercially available LED 4000 K



back



TASK S system

suspended

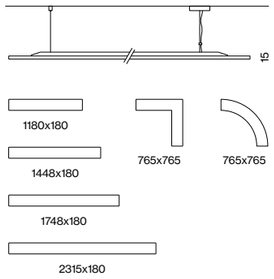
EN Luminaire housing made of aluminium – rounded edges; rectangular, L-shaped or quarter circle segment design; ultra low-profile design (only 15 mm); for lighting systems; powder coated; cable suspension, tool-less height adjustment; convenient quick mounting system without tools; direct or direct / indirect light distribution by LGP body (Light Guiding Prism); side coupled light, directed downwards or up and down by laser engraving; light control via highly reflective reflector material; optional: indirect component – special PCBs for increased luminous flux (max. ceiling illumination); completely homogeneous illumination; energy-eff. LEDs – very good colour rendering; canopy for through wiring; sound absorb. accessories available

ES Cuerpo de aluminio - bordes redond.; rectangular, en L o segmento 1/4 de círculo; perfil extraplano (sólo 15 mm); para sistemas de ilumin.; recubr. de pintura en polvo; suspensión por cable de altura regulable sin herram.; sistema montaje rápido sin herram.; distribución de luz directa o dir./indir. por cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo o hacia arriba/abajo por un grabado láser; direccion. de luz por elemento altamente reflectante; opcional: comp. luz indir. – plet. propias para más flujo luminoso (máx. alumbr. del techo); iluminación totalm. homogénea; LED energét. efic. – excelente reprod. crom.; remate de techo para cableado; accesorio absorbedor del ruido disponible

Quickinfo

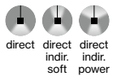
3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 124 lm / W
L80 @ 50 000 h
DALI-2, DALI sensor
microprismatic (UGR ≤ 19)

Types



Colours

Light distributions



DiiA® standards 251, 252, 253

single luminaire (p. 432)

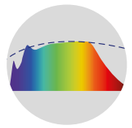
acoustic elements (p. 456)

DIN EN 12464-1 UGR ≤ 19

click-system

system connector

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	0
4000 K	1
tunable white 2700 – 6500 K*	

*DALI-2 DT8; CRI ≥ 80

3000 K + TW 2700 – 6500 K	
4000 K + TW 2700 – 6500 K	

DALI-2 DT8 (separately controllable)

CONTROL

DALI-2	3
DALI sensor*	7

*version with sensor: length + 9 mm

MATERIAL COLOUR

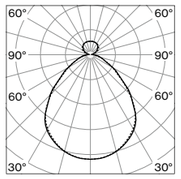
○ pure white RAL 9010	7
● jet black RAL 9005	8

Options on request

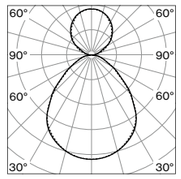
COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM

Light distributions

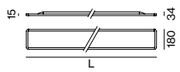


microprismatic direct / indirect soft



microprismatic direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic



TASK S LINEAR suspended

CRI ≥ 98 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
12.9 W	3000 K	1460 lm	1180	059-5744 K
	4000 K	1550 lm		
16.1 W	3000 K	1820 lm	1448	059-5745 K
	4000 K	1940 lm		
19.3 W	3000 K	2190 lm	1748	059-5746 K
	4000 K	2330 lm		
25.7 W	3000 K	2920 lm	2315	059-5748 K
	4000 K	3110 lm		

CRI ≥ 98 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT SOFT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
19.5 W	3000 K	↧1900 / ↥327 lm	1180	059-5754 K
	4000 K	↧2020 / ↥347 lm		
24.4 W	3000 K	↧2380 / ↥408 lm	1448	059-5755 K
	4000 K	↧2540 / ↥435 lm		
29.2 W	3000 K	↧2860 / ↥490 lm	1748	059-5756 K
	4000 K	↧3040 / ↥521 lm		
39 W	3000 K	↧3810 / ↥653 lm	2315	059-5758 K
	4000 K	↧4050 / ↥695 lm		

CRI ≥ 98 | UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
42 W	3000 K	↧3190 / ↥1680 lm	1180	059-5764 K
	4000 K	↧3400 / ↥1790 lm		
49 W (2 × DALI)	3000 K	↧3190 lm	1180	059-57D40 K
	2700 – 6500 K	↥2090 lm		
49 W (2 × DALI)	4000 K	↧3400 lm	1180	059-57D41 K
	2700 – 6500 K	↥2090 lm		
62 W (2 ×)	2700 – 6500 K	↧↥6060 lm	1180	059-5764D K
53 W	3000 K	↧3990 / ↥2100 lm	1448	059-5765 K
	4000 K	↧4250 / ↥2230 lm		
61 W (2 × DALI)	3000 K	↧3990 lm	1448	059-57D50 K
	2700 – 6500 K	↥2610 lm		
61 W (2 × DALI)	4000 K	↧4250 lm	1448	059-57D51 K
	2700 – 6500 K	↥2610 lm		
78 W (2 ×)	2700 – 6500 K	↧↥7570 lm	1448	059-5765D K
63 W	3000 K	↧4790 / ↥2520 lm	1748	059-5766 K
	4000 K	↧5100 / ↥2680 lm		
71 W (2 × DALI)	3000 K	↧4790 lm	1748	059-57D60 K
	2700 – 6500 K	↥2940 lm		
71 W (2 × DALI)	4000 K	↧5100 lm	1748	059-57D61 K
	2700 – 6500 K	↥2940 lm		
85 W (2 ×)	2700 – 6500 K	↧↥8530 lm	1748	059-5766D K
84 W	3000 K	↧6390 / ↥3360 lm	2315	059-5768 K
	4000 K	↧6800 / ↥3580 lm		
92 W (2 × DALI)	3000 K	↧6390 lm	2315	059-57D80 K
	2700 – 6500 K	↥4180 lm		
92 W (2 × DALI)	4000 K	↧6800 lm	2315	059-57D81 K
	2700 – 6500 K	↥4180 lm		
118 W (2 ×)	2700 – 6500 K	↧↥12120 lm	2315	059-5768D K

Mounting accessories

see page 814

Order options

CORNER

without power feeder	2
with power feeder	3

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

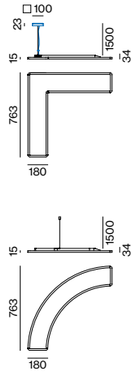
MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

Options on request

COLOUR RENDERING INDEX

CRI ≥ 80
CRI ≥ 98 XPECTRUM



TASK S CORNER / CURVE suspended

incl. cable suspension 1500 mm

CRI ≥ 98 · UGR ≤ 19 · cd/m² ≤3000 · RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15 W	3000 K	1700 lm	765	059-584 ϟ ⁘ 3 ◪ K
corner	4000 K	1810 lm		
12.9 W	3000 K	1460 lm	765	059-5542 ⁘ 3 ◪ K
curve	4000 K	1550 lm		

CRI ≥ 98 · UGR ≤ 19 · cd/m² ≤3000 · RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

DIRECT / INDIRECT SOFT

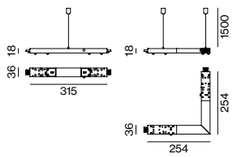
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
22.7 W	3000 K	↧ 2220 / ↥ 381 lm	765	059-585 ϟ ⁘ 3 ◪ K
corner	4000 K	↧ 2370 / ↥ 407 lm		

CRI ≥ 98 · UGR ≤ 19 · RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT

DIRECT / INDIRECT POWER

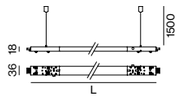
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
49 W	3000 K	↧ 3680 / ↥ 1890 lm	765	059-586 ϟ ⁘ 3 ◪ K
corner	4000 K	↧ 3920 / ↥ 2010 lm		
42 W	3000 K	↧ 3150 / ↥ 1610 lm	765	059-5562 ⁘ 3 ◪ K
curve	4000 K	↧ 3350 / ↥ 1720 lm		

Mounting accessories



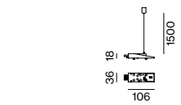
LINEAR / CORNER 90° CONNECTOR incl. cable suspension 1500 mm

TYPE	L (mm)	ORDER CODE
linear mechanical & electrical	10	059-279231 ◪
linear mechanical	10	059-279241 ◪
corner 90° mechanical & electrical	254x254	059-279271 ◪
corner 90° mechanical	254x254	059-279281 ◪



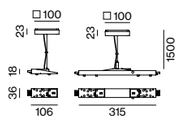
SYSTEM CONNECTOR incl. cable suspension 1500 mm

TYPE	L (mm)	ORDER CODE
mechanical & electrical	800	059-279232 ◪
mechanical & electrical	1200	059-279233 ◪
mechanical & electrical cuttable	1200	059-279230 ◪
mechanical & electrical cuttable	2400	059-279234 ◪
optional cable suspension	1500	059-2792127



END PIECE incl. cable suspension 1500 mm

TYPE	L (mm)	ORDER CODE
end piece	1500	059-279211 ◪

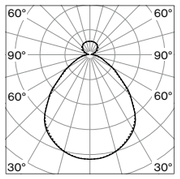


POWER FEEDER incl. cable suspension 1500 mm and canopy / feeder cable

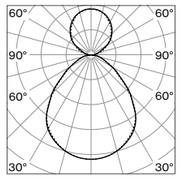
TYPE	L (mm)	ORDER CODE
power feeder 5 × 1.5 mm²	1500	059-279221 ◪
middle power feeder 5 × 1.5 mm²	1500	059-279251 ◪

for electrical system configuration see luminaire data sheet at xal.com

Light distributions



microprismatic
direct / indirect soft



microprismatic
direct / indirect power

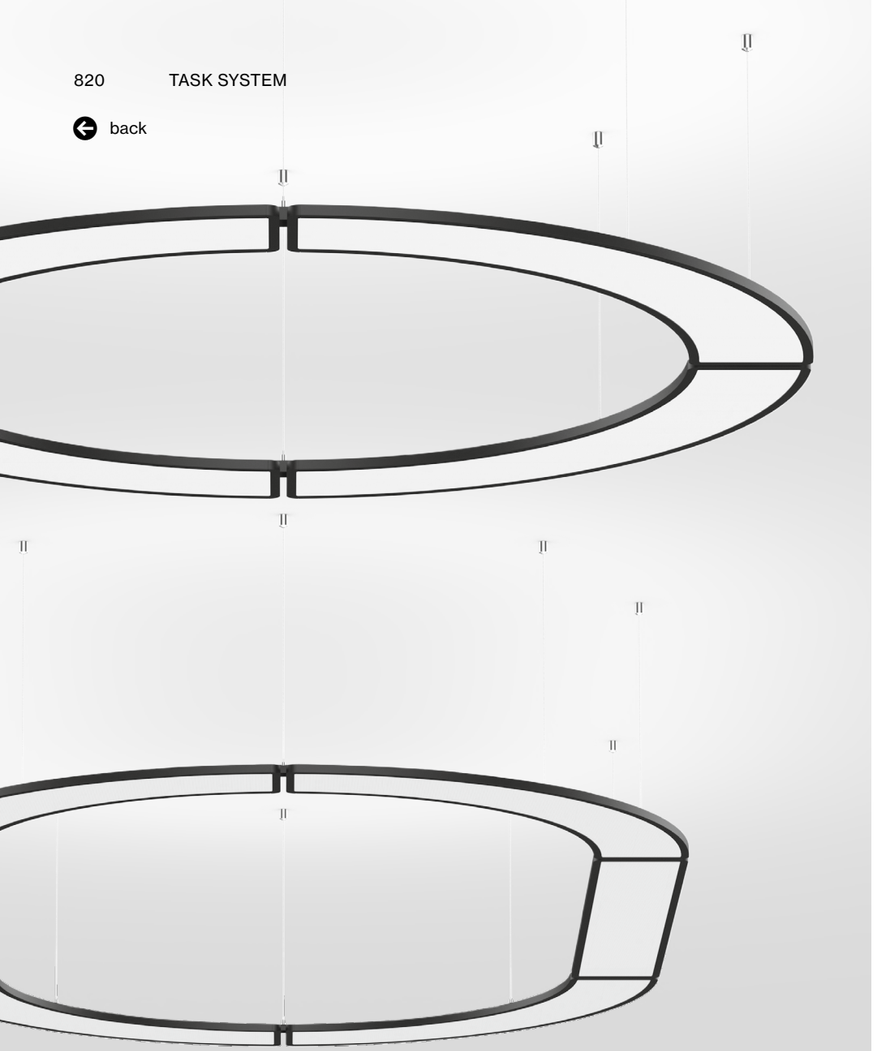
LUMINOUS FLUX value calculated for colour white, cover microprismatic

L'Oréal Vienna, AT – by Philipp Grem

Clariant Lodz, PL –
by The Design Group
with lighting design
by Plus Lighting

Training center GBU Ritual
Moscow, RU – by Khvorostyaniy T. &
Semionov A. with lighting design by
KA2 Light Architecture

back



GERMAN DESIGN AWARD WINNER 2019

reddot award 2018 winner

TASK circle

suspended

EN Ring-shaped suspended luminaire, consisting of single elements in quarter circle or rectangular shape; Luminaire housing made of aluminium – rounded edges; ultra low-profile design (only 15 mm); surface powder coated; cable suspension, tool-less height adjustment; convenient quick mounting system without tools; incl. transparent feed; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-eff. LEDs – very good colour rendering; canopy for through wiring; optional acoustic elements available

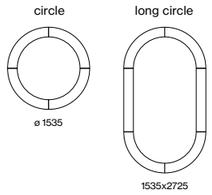
ES Luminaria anular suspendida con elementos individuales en 1/4 de anillo o rectangulares; cuerpo de aluminio – bordes redondeados; perfil extraplano (sólo 15 mm); superficie con recubr. de pintura en polvo; suspensión por cable de altura regul. sin herram.; sistema de montaje rápido sin herram.; con cable de aliment. transparente; distribución de luz directa por cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por grabado láser; comp. de luz indirecta con pletinas propias para mayor flujo luminoso y el máx. alumbr. del techo; iluminación totalmente homogénea; LEDs energéticamente eficientes – excelente reproducción cromática; remate de techo para cableado; elementos acústicos opcionales

Quickinfo

4000 K
CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 117 lm / W
L95 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)

acoustic elements
PET felt
♻ from recycled material
up to absorption class A
available as B-s1, d0

Types



Luminaire colours

Acoustic colours

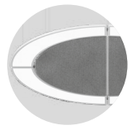
standard xal.com/acoustic-colours

Light distribution

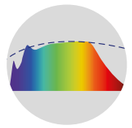
DiiA® standards
251, 252, 253

click-system

DIN EN 12464-1
UGR ≤ 19



acoustic elements



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE
4000 K

CONTROL
DALI-2

LUMINAIRE COLOUR
○ pure white RAL 9010 — 7
● jet black RAL 9005 — 8

ACOUSTIC COLOUR
○ white — W
○ marble grey — D
○ felt grey — G
● black — L
special colours ➔ p. 992 — X

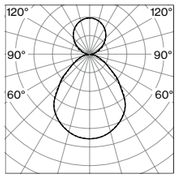
LIGHT OPTIC COVER
microprismatic (UGR ≤ 19)

Options on request

COLOUR RENDERING INDEX
CRI ≥ 80
CRI ≥ 98 XPECTRUM

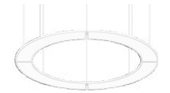
FORM
for other configurations see TASK S suspended system

Light distribution



microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover microprismatic

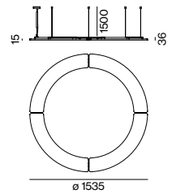


TASK circle suspended

CRI ≥ 90 | UGR ≤ 19 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
169 W	4000 K	↧ 12900 / ↥ 6870 lm	059-528113 ◪ K

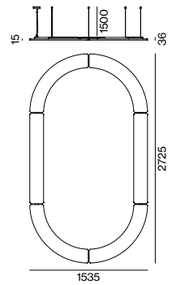


TASK long circle suspended

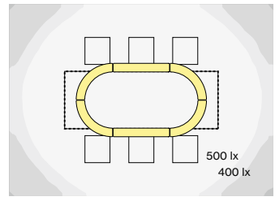
CRI ≥ 90 | UGR ≤ 19 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
252 W	4000 K	↧ 20200 / ↥ 10460 lm	059-528213 ◪ K



Technical data



TASK long circle
252 W, 4000 K, direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE

Surface dimensions	3.2 × 1.2 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

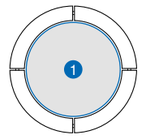
GLARE EVALUATION

Table Classification	X=4H | Y=8H | S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19

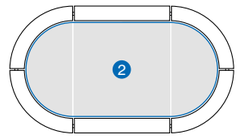
Acoustic elements

TASK ACOUSTIC inlay

	TYPE	L·W·H (mm)	ORDER CODE
1	TASK circle suspended	1155·1155·30	059-579736 ■
2	TASK long circle suspended	1155·2346·30	059-579738 ■



ø1500

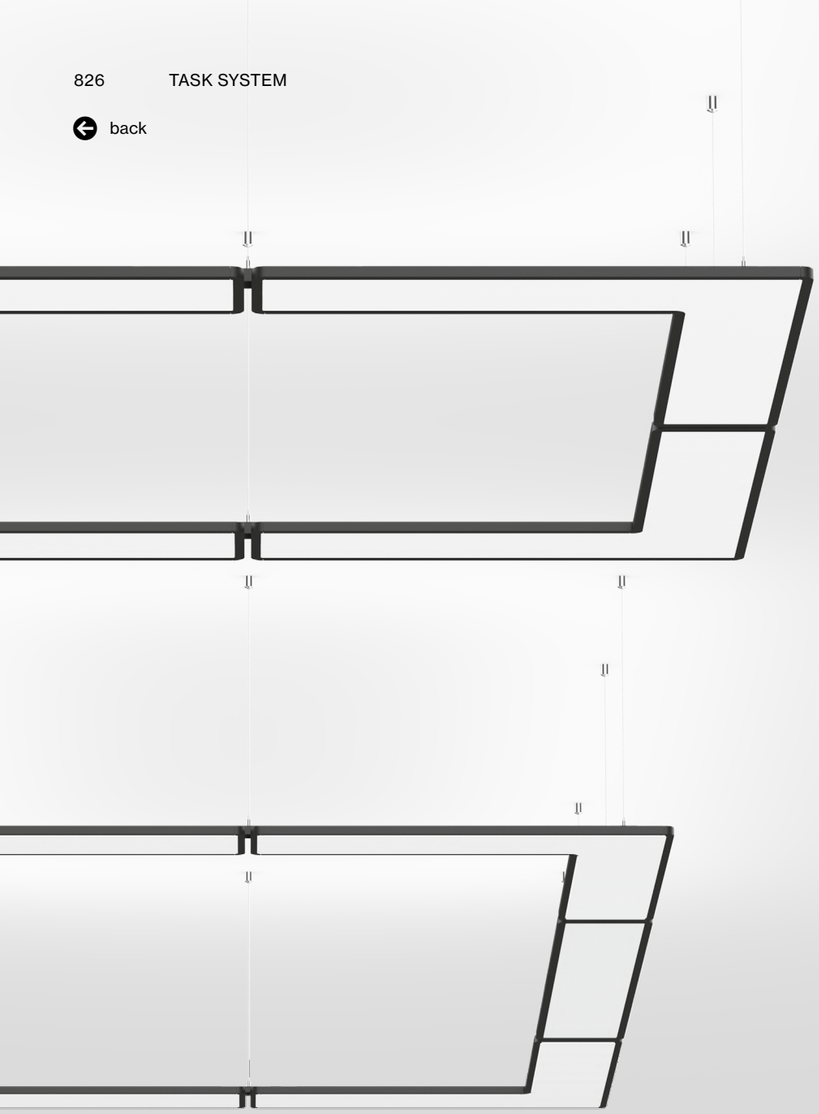


2700

Art Invest Millenium Tower
Vienna, AT –
by LOVE architecture and urbanism

Compound Semiconductor Applications Catapult
Wales, UK – by Monteith Scott

back



TASK angular

suspended

EN Rectangular suspended luminaire, consisting of single L-shaped or rectangular elements; Luminaire housing made of aluminium – rounded edges; ultra low-profile design (only 15 mm); surface powder coated; cable suspension, tool-less height adjustment; convenient quick mounting system without tools; incl. transparent feed; direct light distribution by LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; indirect component with special PCBs for increased luminous flux and maximum ceiling illumination; completely homogeneous illumination; energy-eff. LEDs – very good colour rendering; canopy for through wiring; optional acoustic elements available

ES Luminaria pendular rectangular, compuesta por elementos individuales en forma de L o bien rectangulares; Cuerpo de luminaria de aluminio – cantos redondeados; perfil extra plano (sólo 15 mm); superficie con recubrimiento de pintura en polvo; suspensión cable altura regulable sin herram.; sistema de montaje rápido sin herramientas; incluido cable de alimentación transparente; distribución de luz directa a través de cuerpo LGP (Light Guiding Prism); la luz acoplada lateralmente se orienta hacia abajo por medio de un grabado por láser; proporción indirecta con pletinas propias para un flujo luminoso aumentado y una iluminación máxima del techo; iluminación homogénea; LED energét. efic. – excelente reprod. crom.; baldaquino para cableado pasante; opcional elementos acústicos disponible

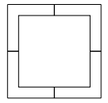
Quickinfo

4000 K
CRI ≥ 90, 3 SDCM
up to 118 lm / W
L95 @ 50 000 h
DALI-2
microprismatic (UGR ≤ 19)

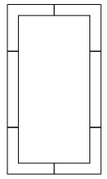
acoustic elements
PET felt
♻ from recycled material
up to absorption class A
🔥 available as B-s1, d0

Types

angular



long angular



Luminaire colours

Acoustic colours

standard xal.com/acoustic-colours

Light distribution

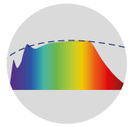
direct
indirect

DiiA® standards
251, 252, 253

click-
system

microprismatic
(UGR ≤ 19)

acoustic
elements



CRI ≥ 98
XPECTRUM

Order options

COLOUR TEMPERATURE
4000 K

CONTROL
DALI-2

LUMINAIRE COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

ACOUSTIC COLOUR

○ white	W
● marble grey	D
● felt grey	G
● black	L
special colours ➔ p. 992	X

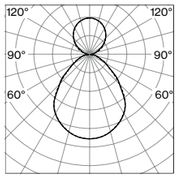
LIGHT OPTIC COVER
microprismatic (UGR ≤ 19)

Options on request

COLOUR RENDERING INDEX
CRI ≥ 80
CRI ≥ 98 XPECTRUM

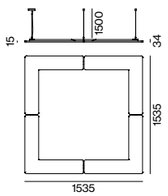
FORM
for other configurations see
TASK S suspended system

Light distribution



microprismatic
direct / indirect power

LUMINOUS FLUX value calculated for
CRI ≥ 90, colour white, cover microprismatic

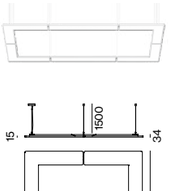


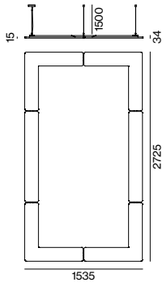
TASK angular suspended

CRI ≥ 90 | UGR ≤ 19 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
197 W	4000 K	↧ 15200 / ↥ 8050 lm	059-528313 ◪ K





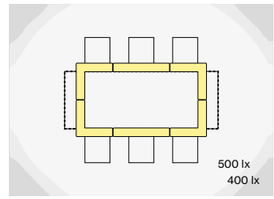
TASK long angular suspended

CRI ≥ 90 | UGR ≤ 19 | DALI 1 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
280 W	4000 K	↧ 22480 / ↥ 11620 lm	059-528413 ◪ K

Technical data



TASK long angular, 280 W, 4000 K, direct / indirect power

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Suspension height	2.25 m

CALCULATION SURFACE ·····

Surface dimensions	3.2 × 1.2 m
Surface height	0.75 m
Average illuminance (E_m)	> 500 lx
Uniformity (U_o)	> 0.6

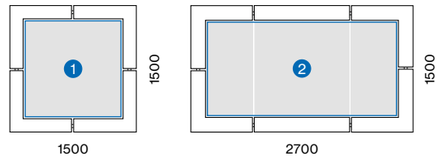
GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H	
UGR transversal	≤ 19
UGR axial	≤ 19

Acoustic elements

TASK ACOUSTIC inlay

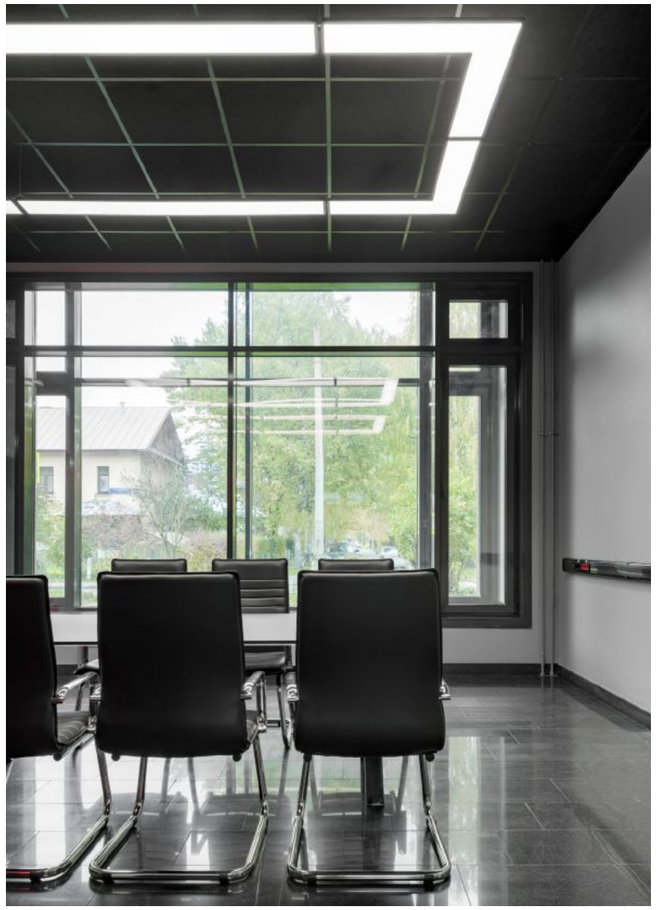
	TYPE	L·W·H (mm)	ORDER CODE
1	TASK angular suspended	1155·1155·30	059-579716 ■
2	TASK long angular suspended	1155·2346·30	059-579718 ■



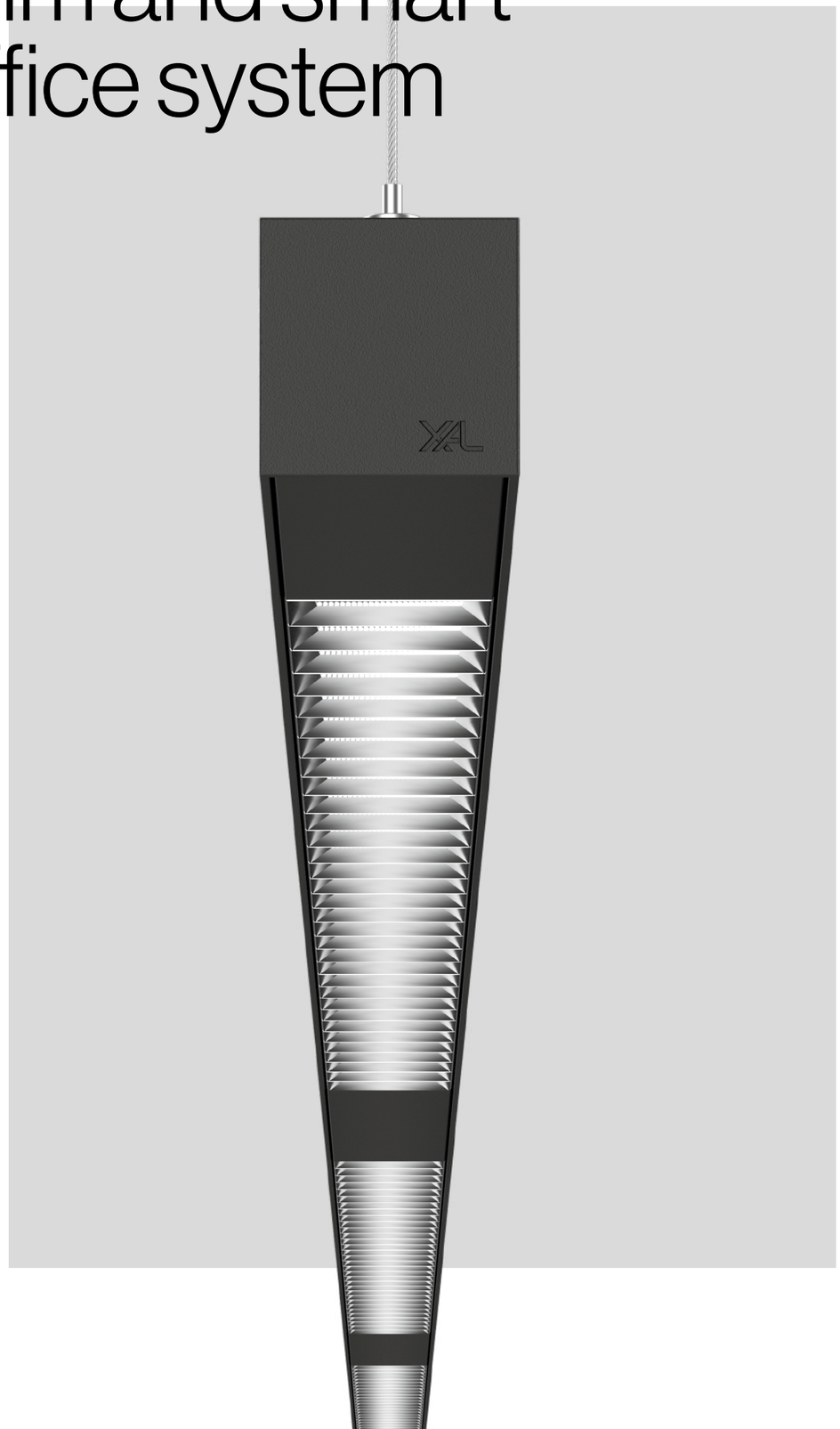
L'Oréal
Vienna, AT –
by Philipp Grem

Community Windpower
Cheshire, UK

Training center GBU Ritual
Moscow, RU – by Khvorostyaniy T. &
Semionov A. with lighting design by
KA2 Light Architecture



Slim and smart office system

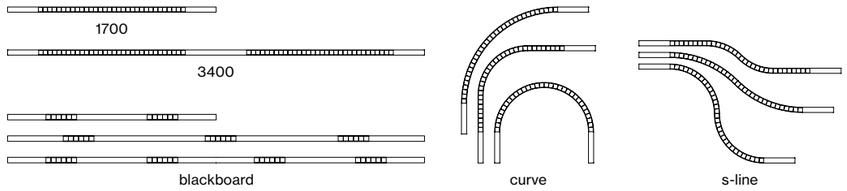


BETO system

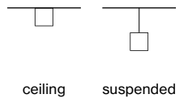
EN BETO is extremely slim, powerful, and optimised for office use. It is a system luminaire with an impressive range of flexible elements that can be lined up like building blocks. Available in ceiling-mounted and suspended versions, the system combines technical excellence with subtle, minimalist design. Designed specifically for offices, BETO has custom reflectors to give the best possible user-friendly, ambient monitor lighting. Some variants can be fitted with a brightness and presence sensor. This adapts the lighting to the activity in the office while reducing energy costs. The BETO System has an optional indirect light component for additional ceiling illumination. All curved and straight elements come in 3000 K or 4000 K light colours, and some also have a Tunable White option.

ES Extremadamente esbelta, potente y optimizada para el uso en la oficina: como luminaria modular, BETO destaca por sus elementos flexibles que pueden unirse unos a otros según las necesidades. Tanto la variante de montaje en techo como la variante modular suspendida combinan la excelencia tecnológica con un diseño sutil y minimalista. BETO ha sido concebida para entornos de oficina, y está dotada de reflectores especiales que le permiten ofrecer una óptima luz de trabajo apta. Algunos modelos pueden equiparse incluso con un sensor de presencia y luminosidad. Esto hace que la iluminación se adapte a la dinámica de la oficina, por lo que el coste energético se reduce. BETO System dispone de una fracción de luz indirecta opcional para la iluminación adicional del techo. Todos los elementos curvos o rectilíneos están disponibles en temperaturas de color de 3000 K o 4000 K, algunos de ellos con la opción Tunable White.

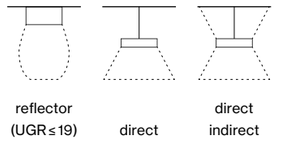
Types

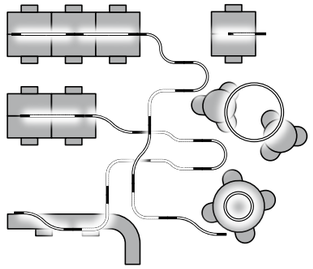


Mountings



Light distributions

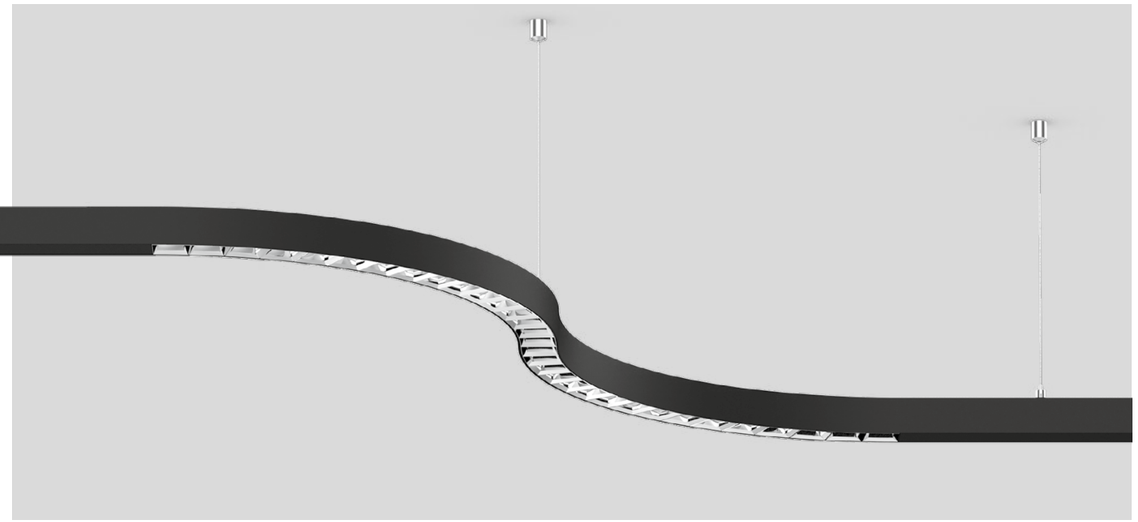




Straight or curved

EN BETO System comes as a suspended luminaire with both straight or curved system elements. Regardless of whether in a linear, curved, or s-shaped design, BETO offers a multifunctional lighting solution that can be integrated into any lighting concept. With an optional indirect light component, the light is distributed homogeneously, creating a pleasant atmosphere.

ES BETO System está disponible como lámpara suspendida con elementos modulares curvos o rectilíneos. Ya se trate de una configuración lineal, curva o en forma de S, BETO es una solución de iluminación polivalente que se integra perfectamente en cualquier esquema de diseño lumínico. Con su proporción de luz indirecta opcional, la luz se distribuye en la sala de manera homogénea y genera una sensación interior agradable.



Work-friendly light

EN As an office luminaire, BETO guarantees illumination that is compliant with workplace standards (up to UGR ≤ 13). Custom glare-free reflectors and the selected use of blind covers direct the light precisely to the work surface and reduce reflections. The direct / indirect version comes with special lens technology that distributes the indirect light component homogeneously and broadly into the room.

ES Como luminaria de oficina, BETO ofrece una iluminación de puestos de trabajo adaptada a la normativa (hasta UGR ≤ 13). Unos reflectores especiales exentos de deslumbramiento y el empleo selectivo de cubiertas opacas dirigen la luz con precisión a la superficie de trabajo y reducen los reflejos. En la variante directa/indirecta, una tecnología de lentes especial distribuye una proporción de luz indirecta con un patrón de irradiación muy amplio de manera homogénea en la sala.

Blackboard lighting

EN Uniform blackboard illumination is still a primary focus of good classroom lighting to hold attention and remain legible even from the back. It is often helpful during presentations to dim the lighting or to illuminate parts of the room. Pre-programmed lighting scenes can be activated, thus supporting varying teaching requirements.

ES Una de las mayores prioridades en el alumbrado de aulas de enseñanza sigue siendo el ofrecer una iluminación homogénea de la pizarra que garantice una visibilidad y legibilidad óptimas incluso desde la última fila. A su vez, durante presentaciones es conveniente poder atenuar el sistema de iluminación o iluminar solamente partes de la sala. La selección de distintas escenas preprogramadas permite adaptar la iluminación a los cambiantes requisitos didácticos.

Advanced sensor technology

EN BETO System is equipped with a DALI sensor and can be controlled as a network. A presence sensor controls the light at the workstation if someone is there. A brightness sensor adjusts the light intensity to the ambient brightness. If desks, rooms, or corridors are unoccupied, the light automatically switches off after a defined delay. This saves energy and extends the service life.

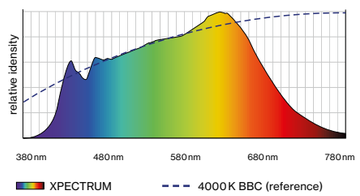
ES Equipada con un sensor DALI, BETO System puede ser controlada a modo de red. Un sensor de presencia regula la iluminación del puesto de trabajo en función de la presencia de una persona, mientras que un sensor de luminosidad adapta la intensidad de la luz a la luminosidad del entorno. Esto permite que la luz se apague automáticamente en escritorios, salas o pasillos vacíos tras un tiempo de espera determinado, lo cual ahorra energía y prolonga la durabilidad de las luminarias.

Full-spectrum LED

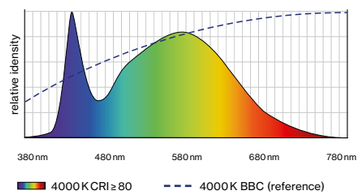
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 $R_f = 98$ and $R_g = 101$ further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices $R_f = 98$ y $R_g = 101$ según la norma IES TM-30-15– garantiza una mayor comodidad visual.

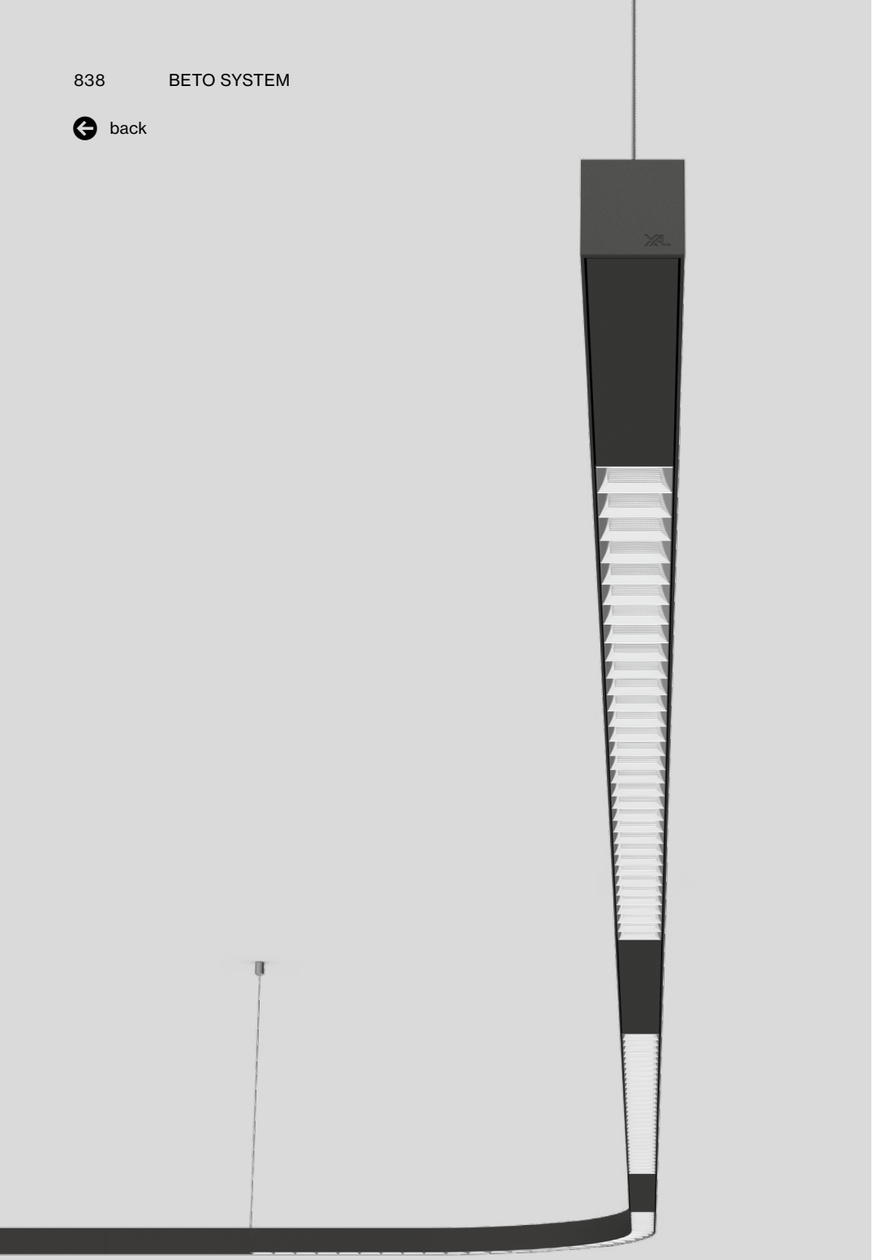
XPECTRUM LED



Commercially available LED 4000 K



back



BETO system

ceiling / suspended

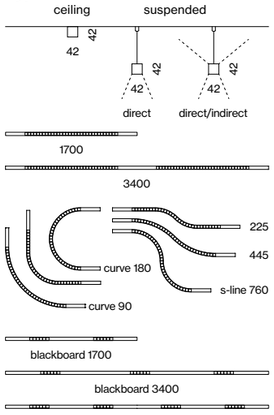
EN Luminaire housing from extruded aluminium profile, angular design (only 42 x 42 mm); no visible screws; for lighting systems; linear, S-shaped or CURVE segment (90° or 180°); powder coated; pendant fitting with cable suspension; height adjustment without tools; with transparent feeder cable; extruded profile for improved thermal management; high-gloss reflector with faceted design; direct or direct / indirect light distribution, or with high-quality aluminum-vaporised micro-faceted reflector for homogeneous vertical lighting intensity; indirect light component with integrated PC boards and high-quality lens system for max., homog. ceiling illumination, separately controllable; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular (solo 42 x 42 mm); sin tornillos visibles; para sistemas de iluminación; lineal, en forma de S o elemento CURVE (de 90° o 180°); recubierto de polvo; suspendido con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; proyección directa o directa/indirecta, o con refl. microfacetado de alta calidad metaliz. con aluminio para iluminación vertical homogénea; componente de luz indir. con plet. propias y ópt. de lente de alta calidad para un alumb. de techo máx. y homog. con control indep.; LED energét. efic. – excelente reprod. crom./ 50 000 h; IP 20; CP I; a elegir en variante no atenuable, con control DALI-2 o atenuable con sensor infrarrojo de presencia y luminosidad integrado (DALI)

Quickinfo

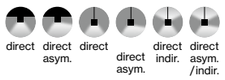
3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
L 3400 direct up to 136 lm/W
L 3400 D/I up to 140 lm/W
L 3400 blackboard up to 124 lm/W
L90 @ 50 000 h
DALI-2, DALI sensor
reflector (UGR ≤ 19)

Types

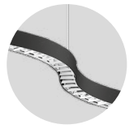


Colours

Light distributions



DiiA® standards 251, 252, 253

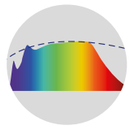


curve elements

single luminaire (p. 470)

DIN EN 12464-1 UGR ≤ 19

glare-free direct and 170° indirect illumination



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

DALI-2	3
DALI sensor*	7

*brightness & presence only linear 3400 mm (not blackboard)

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

reflector (UGR ≤ 19)

Options on request

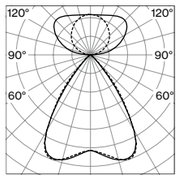
COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

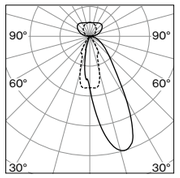
SYSTEM SOLUTION

continuous reflector
individual length

Light distributions



reflector (UGR ≤ 16)
direct / indirect power



blackboard
direct / indirect

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

BETO linear ceiling / suspended system

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1-2 ADDR. | 220-240V | X-PERT | X-PERT

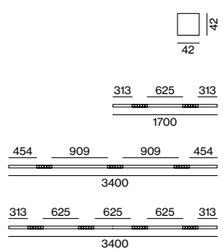
DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
26.1 W	3000 K	3340 lm	1700	074-6006 R
(1 × DALI)	4000 K	3540 lm		
52 W	3000 K	6680 lm	3400	074-6009 R
(2 × DALI)	4000 K	7080 lm		

TUNABLE WHITE | UGR ≤ 16 | cd/m² ≤ 1500 | DALI 2-3 ADDR. | 220-240V | X-PERT | X-PERT

DIRECT / INDIRECT POWER

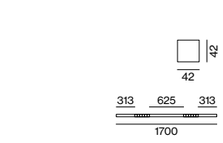
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
57 W	3000 K	↧ 3350 / ↥ 3790 lm	1700	074-6036 R
(2 × DALI)	4000 K	↧ 3540 / ↥ 4020 lm		
109 W	3000 K	↧ 6690 / ↥ 7590 lm	3400	074-6039 R
(3 × DALI)	4000 K	↧ 7080 / ↥ 8040 lm		
109 W	3000 K	↧ 6690 lm	3400	074-60D95 R
(3 × DALI)	2700 – 6500 K	↥ 6810 lm		
109 W	4000 K	↧ 7080 lm	3400	074-60D96 R
(3 × DALI)	2700 – 6500 K	↥ 6810 lm		



DALI 1-2 ADDR. | 220-240V | X-PERT | X-PERT

BLACKBOARD WALLWASHER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
48 W	3000 K	4940 lm	1700	074-7706 R
(1 × DALI)	4000 K	5100 lm		
72 W	3000 K	7420 lm	3400	074-7719 R
(2 × DALI)	4000 K	7630 lm		
90 W	3000 K	9890 lm	3400	074-7729 R
(2 × DALI)	4000 K	10180 lm		



DALI 2-3 ADDR. | 220-240V | X-PERT | X-PERT

BLACKBOARD WALLWASHER / INDIRECT

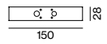
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
79 W	3000 K	↧ 4940 / ↥ 3780 lm	1700	074-7736 R
(2 × DALI)	4000 K	↧ 5090 / ↥ 4000 lm		
127 W	3000 K	↧ 7420 / ↥ 7680 lm	3400	074-7749 R
(3 × DALI)	4000 K	↧ 7630 / ↥ 8130 lm		
150 W	3000 K	↧ 9890 / ↥ 7680 lm	3400	074-7759 R
(3 × DALI)	4000 K	↧ 10180 / ↥ 8130 lm		

Accessories

END CAPS

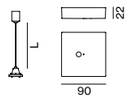
TYPE	ORDER CODE
end caps (pair)	074-609001

LINEAR CONNECTOR



TYPE	ORDER CODE
mechanical linear connector ceiling	074-6091110

CEILING FASTENER / CABLE SUSPENSION / POWER FEEDER



TYPE	L (mm)	ORDER CODE
ceiling fastener	67	050-204121
cable suspension	1500	005-2152110
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
through wire 5 × 1.5 mm² (10 pieces)		004-90005

more accessories see page 841

back

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

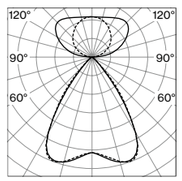
reflector (UGR ≤ 16)

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

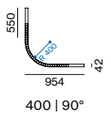
Light distribution



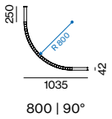
reflector (UGR ≤ 16)
direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

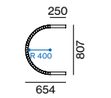
BETO curve ceiling / suspended system



400 | 90°



800 | 90°



400 | 180°

UGR ≤ 19 · cd/m² ≤1500 · DALI 1 ADDR. · 220-240V · X-PERT · X-PERT

DIRECT

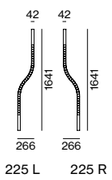
SYS. POWER	COLOUR TEMP.	LUM. FLUX	R (mm)	ORDER CODE
26.1 W	3000 K	3470 lm	400 | 90°	074-710 1 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	800 | 90°	074-710 3 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	400 | 180°	074-710 2 ∷ 3 ◪ R
	4000 K	3680 lm		

UGR ≤ 16 · cd/m² ≤1500 · DALI 2 ADDR. · 220-240V · X-PERT · X-PERT

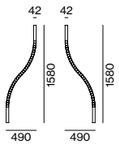
DIRECT / INDIRECT POWER

S. POWER	COLOUR TEMP.	LUM. FLUX	R (mm)	ORDER CODE
57 W	3000 K	↧3470 / ↥3860 lm	400 | 90°	074-713 1 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	800 | 90°	074-713 3 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	400 | 180°	074-713 2 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		

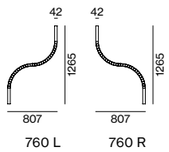
BETO s-line ceiling / suspended system



225 L 225 R
bottom view



445 L 445 R
bottom view



760 L 760 R
bottom view

UGR ≤ 19 · cd/m² ≤1500 · DALI 1 ADDR. · 220-240V · X-PERT · X-PERT

DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	TYPE	ORDER CODE
26.1 W	3000 K	3470 lm	225 L	074-720 1 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	225 R	074-720 2 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	445 L	074-720 5 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	445 R	074-720 6 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	760 L	074-720 3 ∷ 3 ◪ R
	4000 K	3680 lm		
26.1 W	3000 K	3470 lm	760 R	074-720 4 ∷ 3 ◪ R
	4000 K	3680 lm		

UGR ≤ 16 · cd/m² ≤1500 · DALI 2 ADDR. · 220-240V · X-PERT · X-PERT

DIRECT / INDIRECT POWER

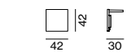
S. POWER	COLOUR TEMP.	LUM. FLUX	TYPE	ORDER CODE
57 W	3000 K	↧3470 / ↥3860 lm	225 L	074-723 1 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	225 R	074-723 2 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	445 L	074-723 5 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	445 R	074-723 6 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	760 L	074-723 3 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		
57 W	3000 K	↧3470 / ↥3860 lm	760 R	074-723 4 ∷ 3 ◪ R
	4000 K	↧3680 / ↥4080 lm		

Order options

MATERIAL COLOUR

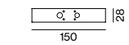
○ pure white RAL 9010	7
● jet black RAL 9005	8

Accessories



END CAPS

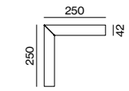
TYPE	ORDER CODE
end caps (pair)	074-609001 ◪



LINEAR CONNECTOR

TYPE	ORDER CODE
mechanical linear connector suspended	074-609112 0

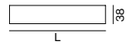
incl. 1500 mm cable suspension



CORNER CONNECTOR 90°

TYPE	ORDER CODE
corner connector 90°	074-609121 ◪

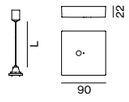
incl. through wire 5 × 1.5 mm²; order two mechanical linear connectors separately



BLIND COVER

TYPE	ORDER CODE
blind cover 250 mm	074-609910 ◪
blind cover 500 mm	074-609911 ◪

order 1 × blind cover 500 mm for each linear connector and 1 × 250 mm for each end

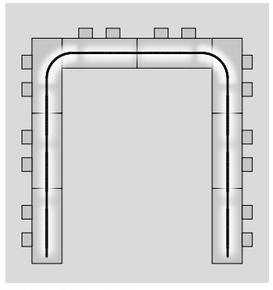


CABLE SUSPENSION / CANOPY / THROUGH WIRE

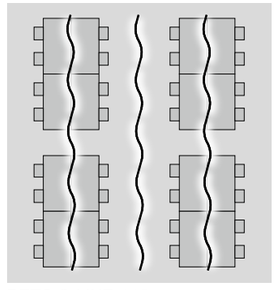
TYPE	L (mm)	ORDER CODE
cable suspension	1500	005-215211 0
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241 ◪
through wire 5 × 1.5 mm² (10 pieces)		004-90005

for electrical system configuration see luminaire data sheet at xal.com

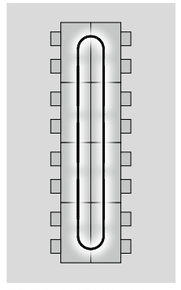
Arrangement examples (top view)



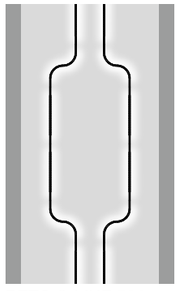
BETO CURVE 90
conference / seminar



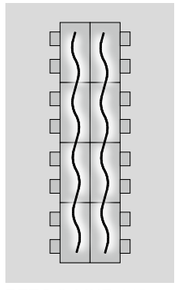
BETO S-LINE 445
office



BETO CURVE 180
conference / seminar

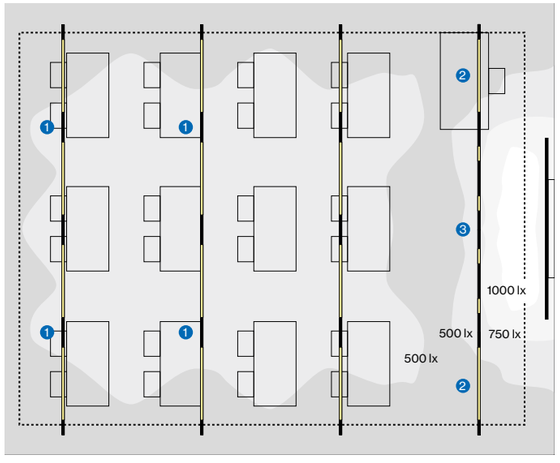


BETO S-LINE 760
corridor



BETO S-LINE 445
conference / seminar

Technical data (top view)



❶ **BETO** 3400 ceiling system, 52 W, 4000 K
❷ **BETO** 1700 ceiling system, 26.1 W, 4000 K
❸ **BETO** 3400 blackboard ceiling system, 90 W, 4000 K

ROOM VALUES

Room dimensions	9.5 × 7.5 × 3 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	3 m

CALCULATION SURFACE ·····

Surface dimensions	8.5 × 6.5
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

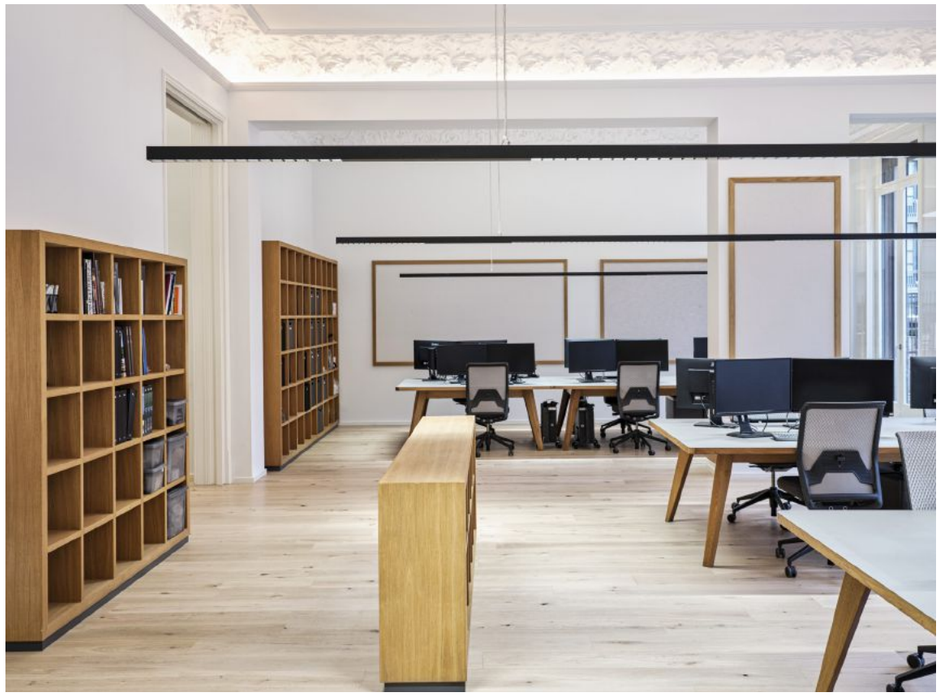
GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

Office
Visualisation

Creative Lab Barcelona, ES –
lighting design by MMAS Lighting
tables designed by James Burleigh



F+P Architekten ZT GmbH
Vienna, AT – by F+P Architekten ZT GmbH with lighting design by Ing. Gerald Pummer, Illuminazione

Office Inarto Architecten
Herentals, BE – by Inarto Architecten

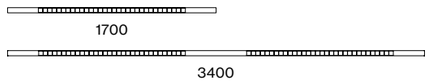
The art of round efficiency

SETA system

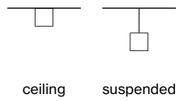
EN The SETA system luminaire is perfect for bespoke office needs with a choice of straight or angular elements that can be arranged in any order. The minimalist yet powerful luminaire is available in ceiling-mounted or suspended system versions. Particularly noteworthy are the reflectors optimised for office spaces, which were designed specifically for working on screens. The indirect light component creates a pleasant, homogeneous ceiling illumination for every work area. The SETA System luminaire is also available on request with presence and brightness sensors, and in the light colours 3000 K, 4000 K, and, depending on the version, also in Tunable White.

ES Con elementos rectos o angulares que pueden unirse unos a otros a placer, la luminaria modular SETA es perfecta para satisfacer las necesidades individuales de oficinas. Esta luminaria minimalista a la par que potente está disponible en una variante de superficie para el montaje en techo o como variante modular suspendida. Cabe destacar sobre todo los reflectores optimizados específicamente para dependencias de oficinas, que han sido diseñados especialmente para el trabajo con pantallas de visualización. La proporción de luz indirecta genera una iluminación del techo homogénea y agradable en cualquier zona de trabajo. Opcionalmente, la luminaria modular SETA está disponible con sensores de presencia y luminosidad y en temperaturas de color de 3000 K y 4000 K, así como en Tunable White en algunas variantes.

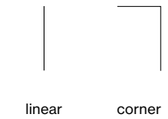
Types



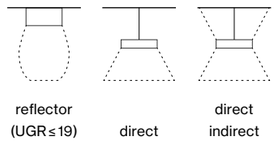
Mountings



Configurations



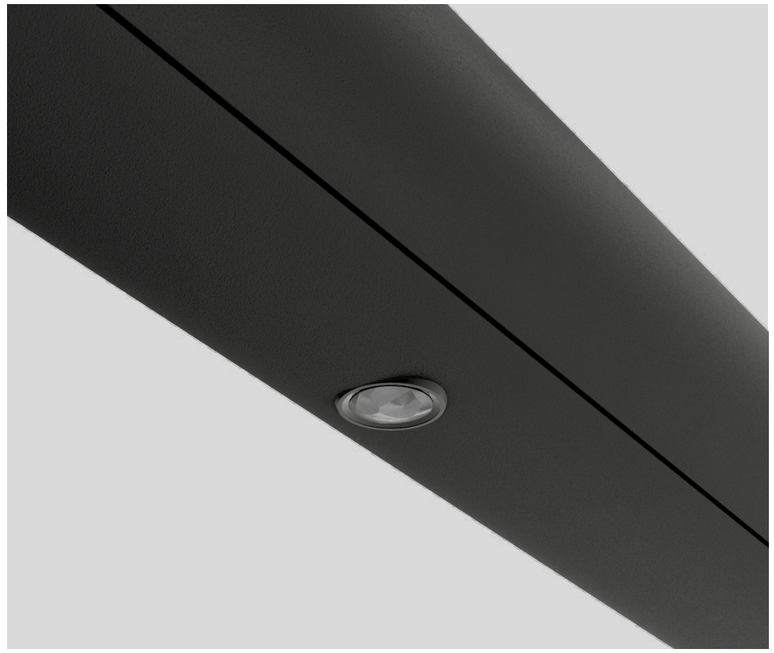
Light distributions



Work-friendly light

EN As an office luminaire, SETA guarantees illumination that is compliant with workplace standards (up to UGR ≤ 16). Custom glare-free reflectors and the selected use of blind covers direct the light precisely to the work surface and reduce reflections. The direct / indirect version comes with special lens technology that distributes the indirect light component homogeneously and broadly towards the ceiling..

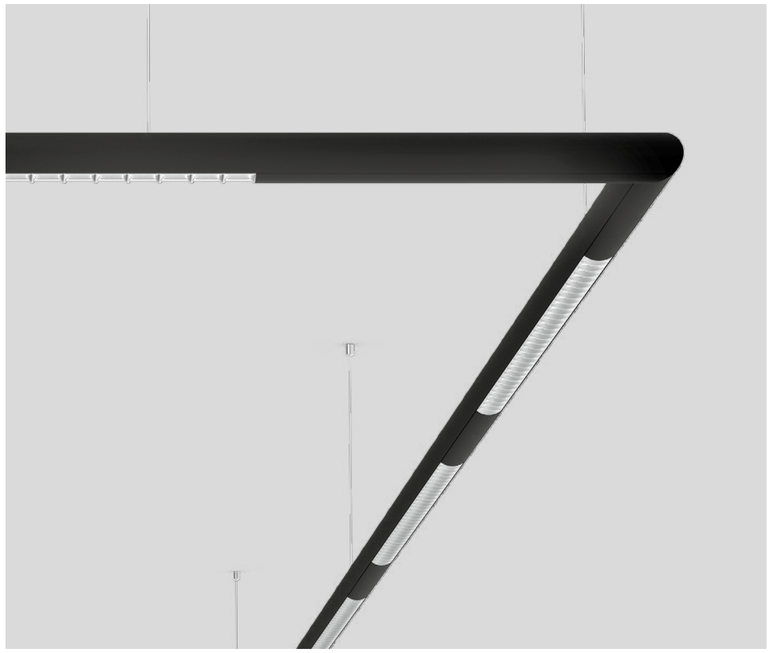
ES Como luminaria de oficina, SETA ofrece una iluminación de puestos de trabajo adaptada a la normativa (hasta UGR ≤ 16). Unos reflectores especiales exentos de deslumbramiento y el empleo selectivo de cubiertas opacas dirigen la luz con precisión a la superficie de trabajo y reducen los reflejos. En la variante directa/indirecta, una tecnología de lentes especial distribuye una proporción de luz indirecta con un patrón de irradiación muy amplio de manera homogénea en la sala.



Advanced sensor technology

EN SETA System is equipped with a DALI sensor and can be controlled as a network. A presence sensor controls the light at the workstation depending on whether anyone is in the vicinity. If desks, rooms, or corridors are unoccupied, the light automatically switches off after a defined delay. This saves energy and extends the service life. A brightness sensor adjusts the light intensity to the ambient brightness.

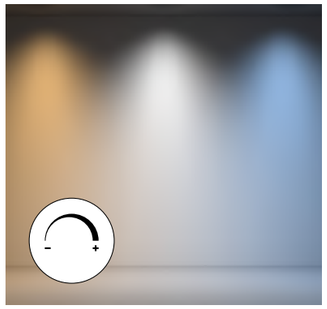
ES Equipada con un sensor DALI, SETA System puede ser controlada a modo de red. Un sensor de presencia regula la iluminación del puesto de trabajo en función de la presencia de una persona, mientras que un sensor de luminosidad adapta la intensidad de la luz a la luminosidad del entorno. Esto permite que la luz se apague automáticamente en escritorios, salas o pasillos vacíos tras un tiempo de espera determinado, lo cual ahorra energía y prolonga la durabilidad de las luminarias.



Lines & edges

EN SETA System comes as a suspended luminaire with straight and angular system elements. Thus, SETA offers a lighting solution that fits into any lighting design concept. Optionally with an indirect light component, the light is distributed homogeneously across the ceiling and creates a pleasant room atmosphere.

ES SETA System está disponible como luminaria de suspensión con elementos modulares angulares y rectilíneos, por lo que SETA ofrece una solución de iluminación que se integra en cualquier esquema de planificación luminotécnica. Con su proporción de luz indirecta opcional, la luz se distribuye en el techo de forma homogénea, generando una atmósfera interior agradable.



TW – Tunable White

EN Changes in the colour of light have a substantial effect on our mood. Tunable White allows the colour temperature to be continuously adjusted from 2700 K (warm light) to 6500 K (cool light) to dynamically adapt the lighting to the time of day or ambient brightness.

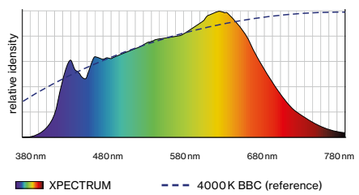
ES Los cambios de color de la luz tienen un efecto considerable en nuestro estado de ánimo. Tunable White hace posible una modificación continua de la temperatura de color desde 2700 K (luz cálida) hasta 6500 K (luz fría), con el fin de adaptar la iluminación de forma dinámica a la hora del día o a la luminosidad del entorno.

Full-spectrum LED

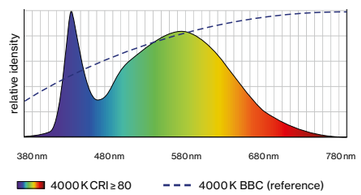
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light component and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15 $R_f = 98$ and $R_g = 101$ further helps visual comfort.

ES I nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices $R_f = 98$ y $R_g = 101$ según la norma IES TM-30-15– garantiza una mayor comodidad visual.

XPECTRUM LED



Commercially available LED 4000 K



SETA system

ceiling / suspended

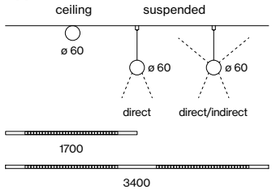
EN Luminaire housing from extruded aluminium profile, round design (only ø 61 mm); no visible screws; for lighting systems; linear; powder coated; pendant fitting with cable suspension; height adjustment without tools; with transparent feeder cable; extruded profile for improved thermal management; high-gloss reflector with faceted design; direct or direct / indirect light distribution; indirect light component with integrated PC boards and high-quality lens system for max., homog. ceiling illumination, separately controllable; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño redondo (solo ø 61 mm); sin tornillos visibles; para sistemas de iluminación; lineal; recubierto de polvo; suspendido con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; perfil extruido para una mejor gestión del calor; reflector de alto brillo con óptica facetada; característica de emisión directa o directa / indirecta; componente de luz indir. con plet. propias y ópt. de lente de alta calidad para un alumb. de techo máx. y homog. con control indep.; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, 3 SDCM
UGR ≤ 19/ 65° ≤ 1500 cd/m²
L 3400 direct up to 136 lm/W
L 3400 D/I up to 140 lm/W
L90 @ 50 000 h
DALI-2, DALI sensor
reflector (UGR ≤ 19)

Types



Colours

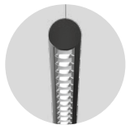
Light distributions

DiiA® standards 251, 252, 253

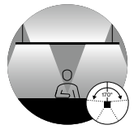
special end cap design

corner connector

DIN EN 12464-1 UGR ≤ 19

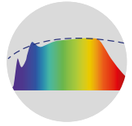


single luminaire (p. 486)



glare-free direct and 170° indirect illumination

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

DALI-2	3
DALI sensor*	7

*brightness & presence | only 3400 mm

MATERIAL COLOUR

white	7
black	8

LIGHT OPTIC COVER

reflector (UGR ≤ 19)

Options on request

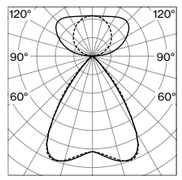
COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

MATERIAL COLOUR

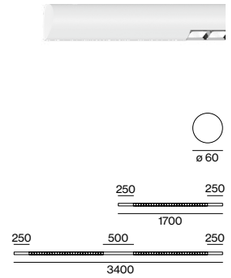
grey

Light distribution



reflector (UGR ≤ 19)
direct / indirect power

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

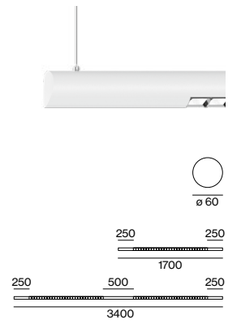


SETA ceiling / suspended system

UGR ≤ 19 | cd/m² ≤ 1500 | DALI 1 ADDR. | 220-240 V | X-PERT | X-PERT

LINEAR DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
26.1 W	3000 K	3340 lm	1700	074-5006 R
(1 × DALI)	4000 K	3540 lm		
52 W	3000 K	6680 lm	3400	074-5009 R
(2 × DALI)	4000 K	7080 lm		



SETA suspended system

TUNABLE WHITE | UGR ≤ 16 | cd/m² ≤ 1500 | DALI 3 ADDR. | 220-240 V | X-PERT | X-PERT

LINEAR DIRECT / INDIRECT POWER

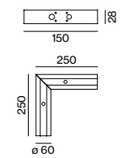
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
57 W	3000 K	↧ 3350 / ↥ 3790 lm	1700	074-5036 R
(2 × DALI)	4000 K	↧ 3540 / ↥ 4020 lm		
109 W	3000 K	↧ 6690 / ↥ 7590 lm	3400	074-5039 R
(3 × DALI)	4000 K	↧ 7080 / ↥ 8040 lm		
109 W	3000 K	↧ 6690 lm	3400	074-50D95 R
(3 × DALI)	2700 – 6500 K	↥ 6810 lm		
109 W	4000 K	↧ 7080 lm	3400	074-50D96 R
(3 × DALI)	2700 – 6500 K	↥ 6810 lm		

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	074-509001

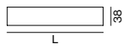
LINEAR CONNECTOR / CORNER CONNECTOR 90°



TYPE	ORDER CODE
mechanical linear connector ceiling	074-5091110
mechanical linear connector suspended*	074-6091120
corner connector 90°**	074-509121

* incl. 1500 mm cable suspension; ** incl. through wire 5 × 1.5 mm²;
order two mechanical linear connectors separately

BLIND COVER



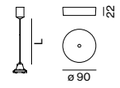
TYPE	ORDER CODE
blind cover 250 mm	074-509910
blind cover 500 mm	074-509911

order 1 × blind cover 500 mm for each linear connector and 1 × 250 mm for each end

CEILING FASTENER

TYPE	L (mm)	ORDER CODE
ceiling fastener	67	050-204121

CABLE SUSPENSION / CANOPY / THROUGH WIRE

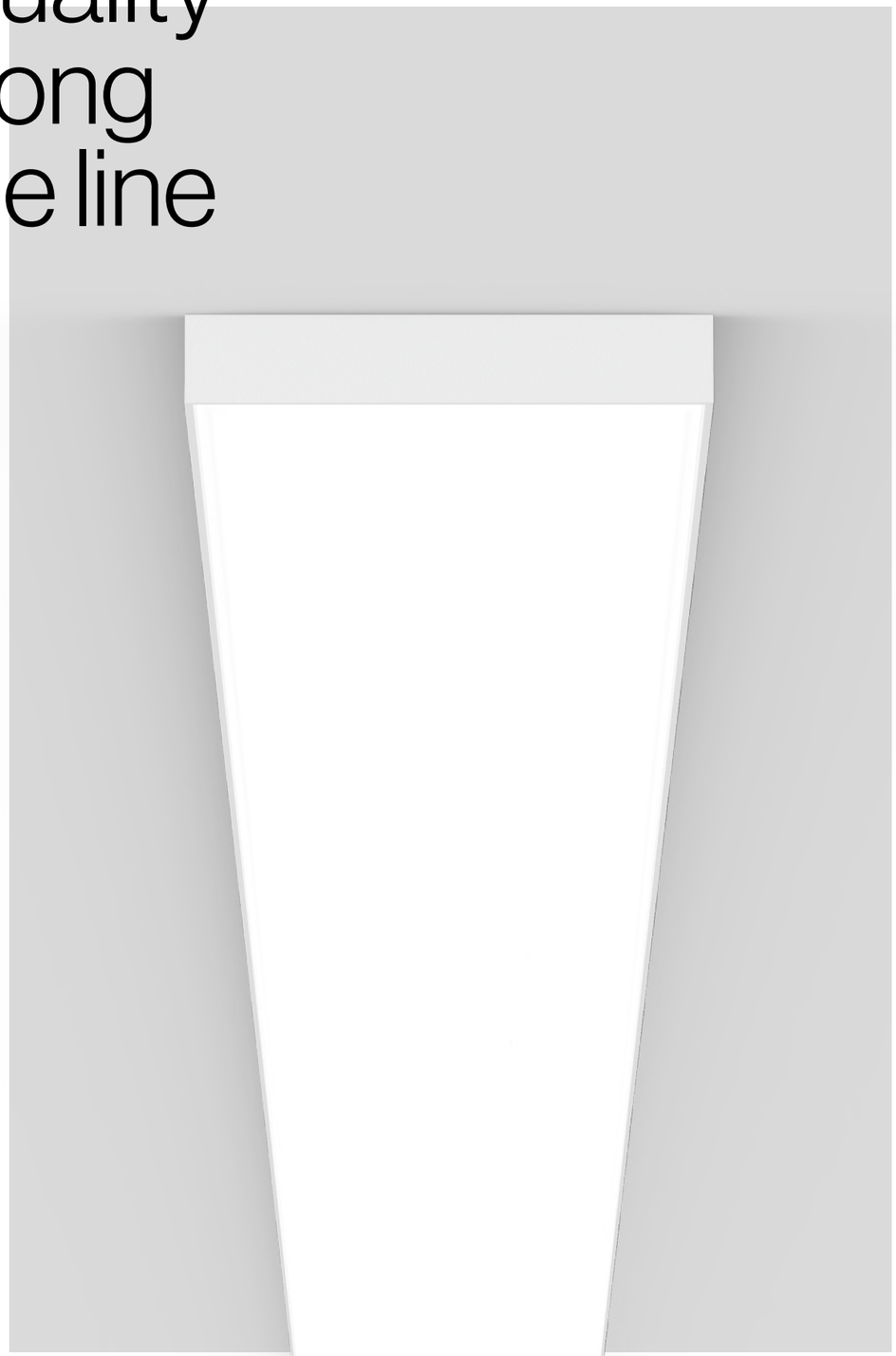


TYPE	L (mm)	ORDER CODE
cable suspension	1500	005-2152110
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
through wire 5 × 1.5 mm² (10 pieces)		004-90005

for electrical system configuration see luminaire data sheet at xal.com

Office
Visualisation

Quality along the line



LENO system

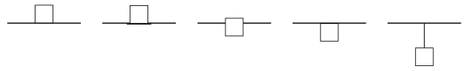
EN The extremely flat LENO profile luminaire is surprisingly versatile. It is available as a recessed, semi-recessed, or surface-mounted version for wall or ceiling mounting, in a suspended version. LENO and its microprismatic cover create ideal work light. The version with an opal cover is best suited for homogeneous room lighting. The variant with asymmetrical beam distribution illuminates walls homogeneously. LENO Jut-Out adds further ceiling illumination by employing discreet lateral radiation. By simply fixing the insets magnetically, assembly is quick and flexible.

ES La luminaria de perfiles LENO ultraplana sorprende por su versatilidad. Está disponible en variantes empotradas, semiempotradas o de superficie para el montaje en pared o techo y en una variante suspendida. LENO ofrece la mejor luz de trabajo con su difusor microprismático. La variante con cubierta opal es perfecta para un alumbrado general uniforme. La variante con proyección asimétrica ilumina las paredes de forma homogénea, mientras que LENO Jut-Out genera una iluminación adicional del techo gracias a su elegante proyección lateral. El montaje es rápido y flexible, debido a que los insertos se fijan magnéticamente con total facilidad.

Type

90

Mountings

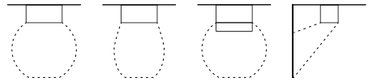


trimless recessed | trim recessed | semi-recessed | surface | suspended

Configuration

linear

Light distributions

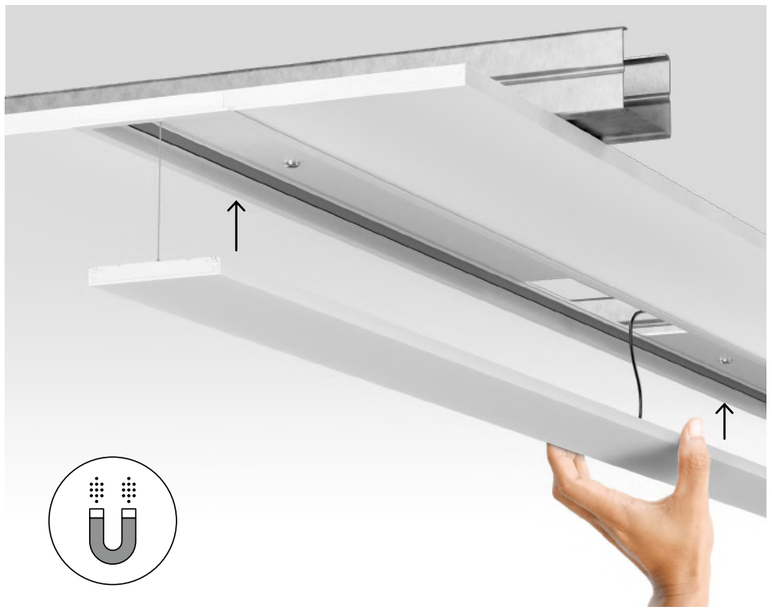


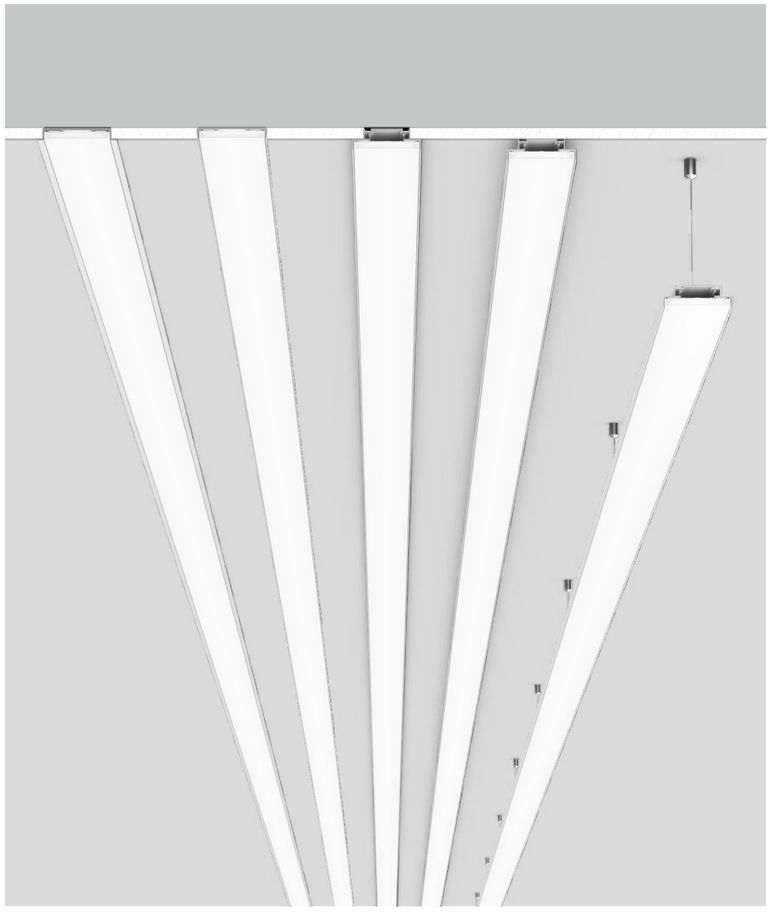
opal | microprismatic (UGR ≤ 19) | jut-out | wallwasher

Magnetic attachment

EN Simple and utterly tool-free installation: LENO luminaire insets are magnetically fixed in the profile. The patented system saves time and money when installing the luminaire.

ES Montaje sencillo y totalmente sin herramientas: Los cuerpos de las luminarias LENO se fijan magnéticamente al perfil. Este sistema patentado permite ahorrar aún más tiempo y dinero al montar la luminaria.





Variety

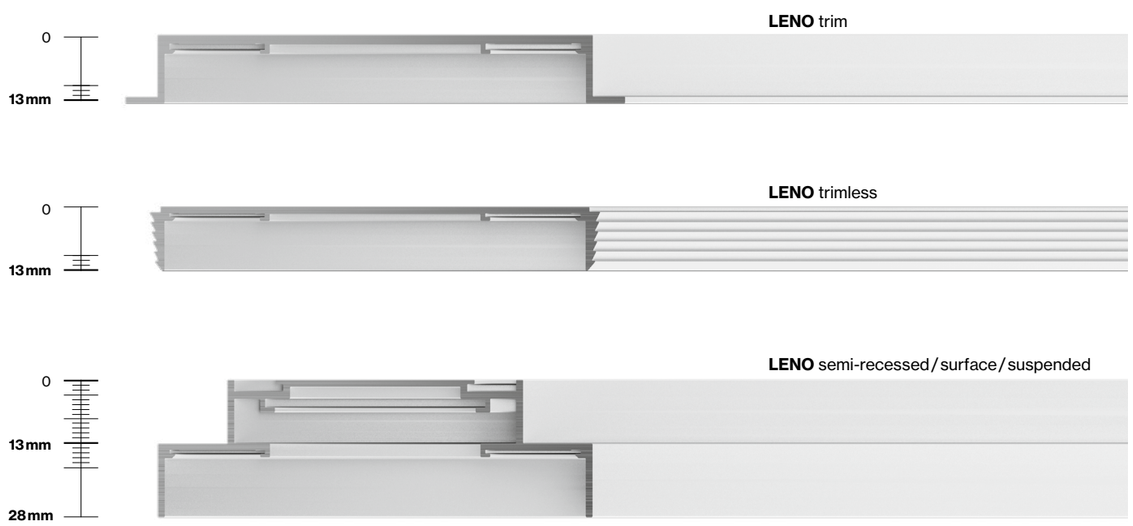
EN Available for installation in plasterboard ceilings, suspended, or as a surface-mounted variant, this exceptionally flat profile luminaire has precise, homogeneously illuminated edges and can be used in a variety of ways. Choose between the high-performance Opal Cover inset for homogeneous illumination, the workplace-compatible microprismatic cover (UGR ≤ 19) or the opal Jut-Out version for improved room and ceiling illumination. Different lengths and optional asymmetrical light distribution complete the range.

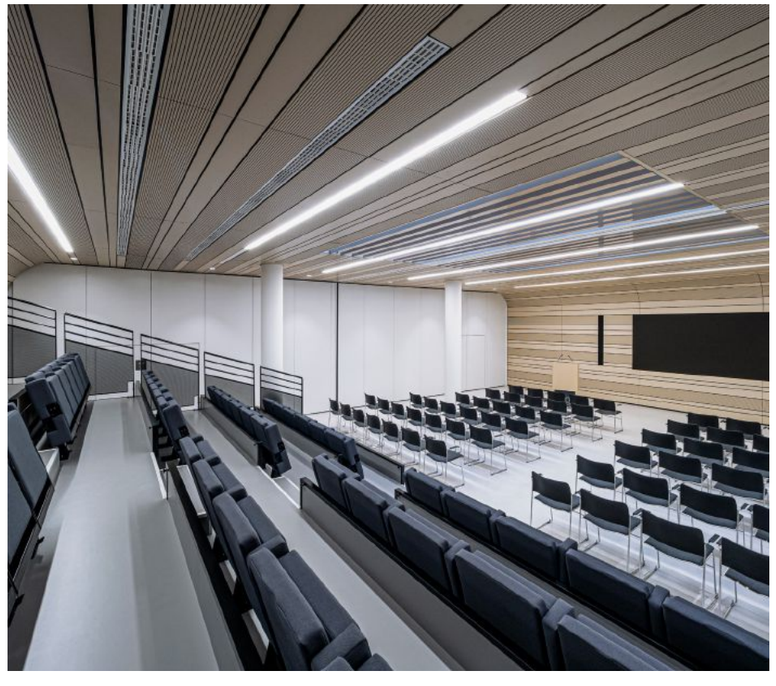
ES Ya sea para el empotramiento en techos de yeso, la instalación suspendida o en su versión de montaje en superficie, esta luminaria de perfil extremadamente plano está dotada de bordes precisos e iluminados de manera homogénea y admite una gran cantidad de usos. En cuanto a los difusores, es posible elegir entre la High Performance Opal Cover para un alumbrado homogéneo, el difusor microprismático apto para puestos de trabajo (UGR ≤ 19) o la versión opal Jut-Out para una mejor iluminación de la sala y el techo. Diversas longitudes y una distribución de la luz asimétrica opcional completan la gama de opciones.

Slim and efficient

EN Innovative lighting technology, minimal profile heights. The extremely flat flush-mounted variants, both with and without a trim, match the height of plasterboard. They are therefore easily mounted on any ceiling, regardless of its substructure. This grants maximum design freedom with a slim appearance and impressive efficiency.

ES Tecnología de iluminación innovadora, alturas de perfil mínimas. Las versiones empotradas ultraplanas, con o sin marco, tienen exactamente la misma altura que una placa de cartón yeso. Eso hace que puedan montarse fácilmente en cualquier techo, independientemente de su estructura de soporte. Numerosas posibilidades de configuración, combinadas con una apariencia esbelta y una eficiencia impresionante.





Single or system

EN LENO is flexible and available in four lengths, and as a system luminaire in any length. Depending on requirements, the elements are simply mechanically connected – tailored to match the design of the interior. LENO can create a particularly powerful, continuous lighting system, granting maximum freedom of design.

ES LENO es sinónimo de flexibilidad y está disponible en cuatro longitudes distintas como, o en la longitud que se desee en su variante de sistema. Los elementos se combinan mecánicamente con toda facilidad en función de los requisitos, adaptándolos individualmente al diseño del interior. Con LENO es posible crear un sistema de iluminación continuo y extremadamente efectivo que permite disponer de innumerables opciones de configuración.

back

GOOD DESIGN

LENO system

recessed with trim

EN Low profile recessed channel; suitable for installation in 12.5 mm ceilings, with trim; suitable for wall or ceiling mounting; for continuous lighting systems; surface powder coated; easy mounting without need to cut the substructure; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; optional with asymmetric light distribution; energy-eff. LEDs – very good colour rendering; incl. external converter for ceiling insertion

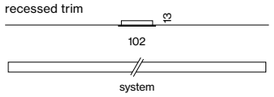
ES Canal para montaje empotrado extremadamente plano; apropiado para montaje en techos de 12,5 mm, con borde de contorno; apropiado para el montaje en la pared y en el techo; para sistemas de iluminación continuos; superficie con recubrimiento de pintura en polvo; montaje sencillo sin cortar la construcción inferior; elemento de luz asegurado contra caídas de perfil de aluminio extrusionado que se puede introducir en el canal sin herramientas por medio de un soporte magnético; fuente de luz insertada en un lateral que es guiada y reflectada a través de unos prismas y reflector de alta calidad; cubierta de PMMA iluminada homogéneamente, satinada (enrasada o sobresaliente) o micro-prismática; opcional con distribución asimétrica; LED energét. efic. – excelente reprod. crom.; incl. convertidor externo para inserción en el techo

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out, asymmetric wallwasher

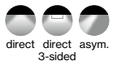
Types

recessed trim



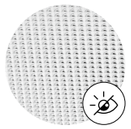
Colour

Light distributions



DiiA® standards 251, 252, 253

single luminaire (p. 492)



microprismatic UGR ≤ 19

quick installation

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016

LIGHT OPTIC COVER

opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J
asymmetric	A

Options on request

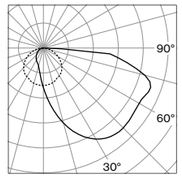
COLOUR RENDERING INDEX

CRI ≥ 90

EMERGENCY LIGHT

1 h accupack
3 h accupack

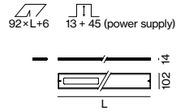
Light distribution



asymmetric

LUMINOUS FLUX value calculated for colour white, cover opal microprismatic -5 %, jut-out-4 %

LENO trim

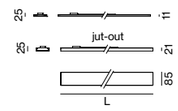


INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	051-8910067
channel	1221	051-8910127
channel	1830	051-8910187
channel	2438	051-8910247

order installation channel, light inset + mounting accessories separately

LIGHT INSET



SYS. POWER (OPAL, MP, JUT-OUT / ASYM.)	L (mm)	ORDER CODE
10.8 W / 15.6 W	612	051-8012 ⁘ 37 ◘
19.1 W / 31 W	1220	051-8014 ⁘ 37 ◘
28.6 W / 47 W	1828	051-8016 ⁘ 37 ◘
38 W / 62 W	2436	051-8018 ⁘ 37 ◘

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K	17.6 W/m	2010 lm/m	129 lm/W
	4000 K		2130 lm/m	137 lm/W
microprismatic UGR ≤ 19	3000 K	17.6 W/m	1900 lm/m	122 lm/W
	4000 K		2010 lm/m	129 lm/W
jut-out	3000 K	17.6 W/m	1930 lm/m	124 lm/W
	4000 K		2040 lm/m	131 lm/W
asymmetric	3000 K	25.5 W/m	2580 lm/m	101 lm/W
	4000 K		2730 lm/m	107 lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	051-8991217

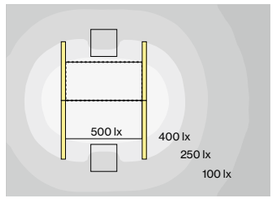
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	051-8990110
linear connector (10 pairs)	051-8990110.10

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

Technical data



LENO trim, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE ·····

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_o)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H	
UGR transversal	≤ 19
UGR axial	≤ 19

Vaucluse House Sydney, AU –
by EST Lighting

back

GOOD DESIGN

LENO system

recessed trimless

EN Low profile recessed channel; for trimless installation in 12.5 mm plasterboard ceilings; wall or ceiling mounting; for lighting systems; powder coated; special edge design with grooves for better adhesion of filler; easy mounting without need to cut the substructure; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; optional asym. light distribution; energy-eff. LEDs – very good colour rendering; external converter for ceiling insertion

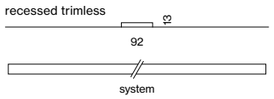
ES Canal para montaje empotrado extremadamente plano; para encastre sin bordes en planchas cartón yeso 12,5 mm; montaje en techo y paredes; para sistemas de iluminación; recubierto de polvo; formación de bordes especial con aletas para mejor adherencia de la masilla; montaje sencillo sin cortar la construcción inferior; elemento de luz asegurado contra caídas de perfil de aluminio extrusionado que se puede introducir en el canal sin herramientas por medio de un soporte magnético; fuente de luz insertada en un lateral que es guiada y reflectada a través de unos prismas y reflector de alta calidad; cubierta de PMMA iluminada homogéneamente, satinada (enrasada o sobresaliente) o micro-prismática; opcional distribución asimétrica; LED energét. efic. – excelente reprod. crom.; convertidor externo para inserción en el techo

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19),
jut-out, asymmetric wallwasher

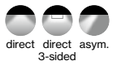
Types

recessed trimless



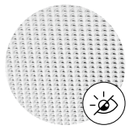
Colour

Light distributions



DiiA® standards 251, 252, 253

single luminaire (p. 492)



microprismatic UGR ≤ 19

quick installation

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016

LIGHT OPTIC COVER

opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J
asymmetric	A

Options on request

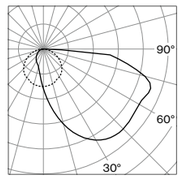
COLOUR RENDERING INDEX

CRI ≥ 90

EMERGENCY LIGHT

1 h accupack
3 h accupack

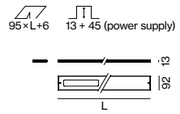
Light distribution



asymmetric

LUMINOUS FLUX value calculated for colour white, cover opal microprismatic -5 %, jut-out-4 %

LENO trimless

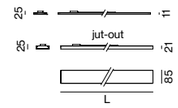


INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	051-8900067
channel	1221	051-8900127
channel	1830	051-8900187
channel	2438	051-8900247

order installation channel, light inset + mounting accessories separately

LIGHT INSET



SYS. POWER (OPAL, MP, JUT-OUT / ASYM.)	L (mm)	ORDER CODE
10.8 W / 15.6 W	612	051-8012 37
19.1 W / 31 W	1220	051-8014 37
28.6 W / 47 W	1828	051-8016 37
38 W / 62 W	2436	051-8018 37

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high	3000 K	17.6 W/m	2010 lm/m	129 lm/W
performance	4000 K		2130 lm/m	137 lm/W
microprismatic	3000 K	17.6 W/m	1900 lm/m	122 lm/W
UGR ≤ 19	4000 K		2010 lm/m	129 lm/W
jut-out	3000 K	17.6 W/m	1930 lm/m	124 lm/W
	4000 K		2040 lm/m	131 lm/W
asymmetric	3000 K	25.5 W/m	2580 lm/m	101 lm/W
	4000 K		2730 lm/m	107 lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	051-8990217

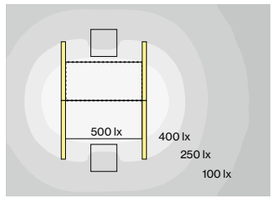
LINEAR CONNECTOR

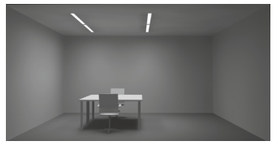
TYPE	ORDER CODE
linear connector (pair)	051-8990110
linear connector (10 pairs)	051-8990110.10

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

Technical data





LENO trimless, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_o)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H	
UGR transversal	≤ 19
UGR axial	≤ 19

Office Gemüsekiste
Kramsach, AT –
by STUDIODESIGN, Herbert Lanzinger KG

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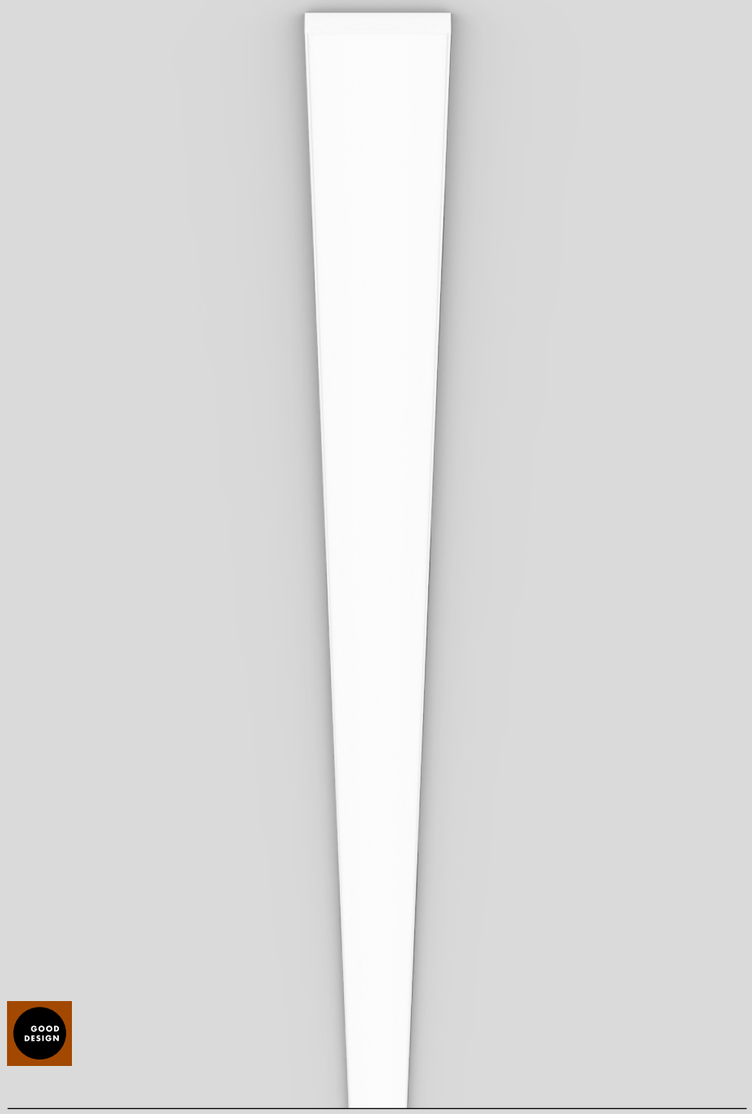


GOOD DESIGN

LENO system

semi-recessed

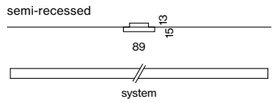
EN Low profile recessed mounted luminaire, 15 mm visible height; suitable for wall or ceiling mounting; suitable for installation in primed or exposed concrete, in plasterboard constructions and in plastered walls or ceilings; designed for continuous lighting systems; surface powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering

ES Lámpara empotrable extraplana con altura visible de 15 mm; para montaje en pared o techo; empotrable en hormigón visto o alisado, estructuras de yeso laminado y paredes o techos enlucidos; diseñada para la creación de sistemas continuos; superficie con recubrimiento de pintura en polvo; elemento de luz anticaídas de perfil de aluminio extruido insertable en el canal sin herramienta con un soporte magnético; luz acoplada lateralmente por cuerpo LGP (Light Guiding Prism) y reflector de alta eficiencia con direccionamiento hacia abajo; difusor de iluminación homogénea, satinado (a ras o sobresaliente) o microprismático de metacrilato; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out

Types

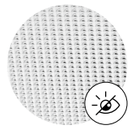


Colours

Light distributions

DiiA® standards 251, 252, 253

single luminaire (p. 496)



microprismatic UGR ≤ 19

quick installation

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

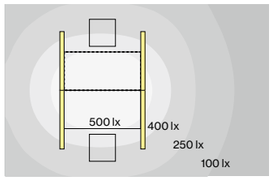
opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

Technical data



LENO semi-recessed, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE ·····

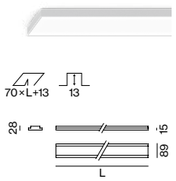
Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

LUMINOUS FLUX value calculated for colour white, cover opal microprismatic -5 %, jut-out-4 %



LENO semi-recessed

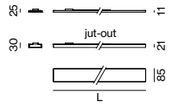
INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	051-892006
channel	1221	051-892012
channel	1830	051-892018
channel	2438	051-892024

order installation channel, light inset + mounting accessories separately

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | IP20 IP40 | X-PERT

LIGHT INSET

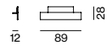


SYSTEM POWER	L (mm)	ORDER CODE
10.8 W	612*	051-8112::37
19.1 W	1220	051-8214::37
28.6 W	1828	051-8216::37
38 W	2436	051-8218::37

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K	17.6 W/m	2010 lm/m	129 lm/W
	4000 K		2130 lm/m	137 lm/W
microprismatic UGR ≤ 19	3000 K	17.6 W/m	1900 lm/m	122 lm/W
	4000 K		2010 lm/m	129 lm/W
jut-out	3000 K	17.6 W/m	1930 lm/m	124 lm/W
	4000 K		2040 lm/m	131 lm/W

Accessories



END CAPS

TYPE	ORDER CODE
end caps mounting housing (pair)	051-899210
end caps semi-recessed	051-899221

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	051-8992110
linear connector (10 pairs)	051-8992110.10

POWER FEEDER CONNECTOR 220–240 V | 13 A

TYPE	ORDER CODE
power feeder connector	051-8992330

CONCRETE MOUNTING HOUSING

L (mm)	UNIT	ORDER CODE
616	end	051-8960060
1224	start / end	051-8960120
1221	middle	051-8961120
1833	start / end	051-8960180
1830	middle	051-8961180
2441	start / end	051-8960240
2438	middle	051-8961240

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

Jungheinrich Hauptverwaltung
Hamburg, DE –
by reichardt+partner architekten

back

GERMAN DESIGN AWARD WINNER 2019

GOOD DESIGN

LENO system

surface

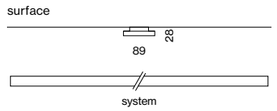
EN Low profile surface mounted luminaire, 28 mm total height; suitable for wall or ceiling mounting; designed for continuous lighting systems; surface powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering

ES Lámpara extraplana de superficie con 28 mm de altura total; para montaje en pared o techo; diseñada para la creación de sistemas continuos; superficie con recubr. de pintura en polvo; elemento de luz anticaídas de perfil de alum. extruido insertable en el canal sin herramienta con un soporte magnético; luz acoplada lateralmente por cuerpo LGP (Light Guiding Prism) y reflector de alta eficiencia con direcc. hacia abajo; difusor de iluminación homogénea, satinado (a ras o sobresaliente) o microprismático de metacrilato; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out

Types

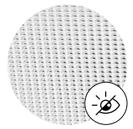


Colours

Light distributions

DiiA® standards 251, 252, 253

single luminaire (p. 500)



microprismatic UGR ≤ 19

quick installation

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

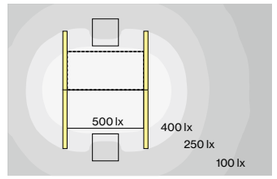
opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J

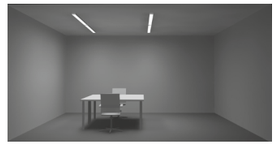
Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

Technical data





LENO surface, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

CALCULATION SURFACE

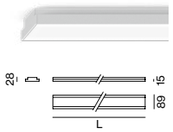
Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

LUMINOUS FLUX value calculated for colour white, cover opal microprismatic -5 %, jut-out-4 %



LENO surface

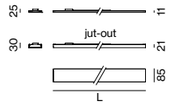
INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	051-892006
channel	1221	051-892012
channel	1830	051-892018
channel	2438	051-892024

order installation channel, light inset + mounting accessories separately

UGR ≤ 19 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT

LIGHT INSET

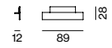


SYSTEM POWER	L (mm)	ORDER CODE
10.8 W	612*	051-8112::37
19.1 W	1220	051-8214::37
28.6 W	1828	051-8216::37
38 W	2436	051-8218::37

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K	17.6 W/m	2010 lm/m	129 lm/W
	4000 K		2130 lm/m	137 lm/W
microprismatic UGR ≤ 19	3000 K	17.6 W/m	1900 lm/m	122 lm/W
	4000 K		2010 lm/m	129 lm/W
jut-out	3000 K	17.6 W/m	1930 lm/m	124 lm/W
	4000 K		2040 lm/m	131 lm/W

Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	051-899221

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	051-8992110
linear connector (10 pairs)	051-8992110.10

POWER FEEDER CONNECTOR 220–240 V | 13 A

TYPE	ORDER CODE
power feeder connector	051-8992330

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

GERMAN DESIGN AWARD WINNER 2019

GOOD DESIGN

LENO system

suspended

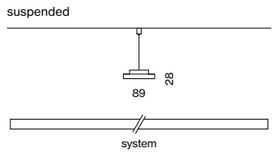
EN Low profile suspended luminaire, 28 mm total height; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; incl. transparent feed; designed for continuous lighting systems; surface powder coated; fall-safe light inset made of extruded aluminium profile, can be inserted in the canal without tools by magnetic holders; side coupled light, directed downwards by LGP body (Light Guiding Prism) and highly efficient reflector; homogeneously illuminated, satinised (flush or jut-out) or microprismatic PMMA cover; energy-efficient LEDs with very good colour rendering

ES Lámpara suspendida extraplana con 28 mm de altura total; suspensión por cable; altura regulable sin herramienta; con cable de alimentación transparente; diseñada para la creación de sistemas continuos; superficie con recubrimiento de pintura en polvo; elemento de luz anticaídas de perfil de aluminio extruido insertable en el canal sin herramienta con un soporte magnético; luz acoplada lateralmente por cuerpo LGP (Light Guiding Prism) y reflector de alta eficiencia con direcc. hacia abajo; difusor de iluminación homogénea, satinado (a ras o sobresaliente) o microprismático de metacrilato; LEDs de alta eficiencia con muy buena reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 137 lm/W
L90 @ 50 000 h
DALI-2
opal, microprismatic (UGR ≤ 19), jut-out

Types

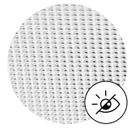


Colours

Light distributions

DiiA® standards 251, 252, 253

single luminaire (p. 504)



microprismatic UGR ≤ 19

quick installation

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

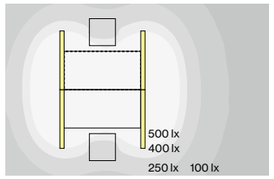
opal high performance	H
microprismatic (UGR ≤ 19)	G
jut-out	J

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

Technical data



LENO suspended, microprismatic, 19.1 W, 4000 K

ROOM VALUES

Room dimensions	5.4 × 4 × 2.8 m
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8
Mounting height	2.25 m

CALCULATION SURFACE

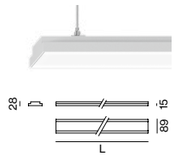
Surface dimensions	1.6 × 0.8
Surface height	0.75
Average illuminance (E_m)	> 500 lx
Uniformity (U_0)	> 0.6

GLARE EVALUATION

Table Classification X=4H | Y=8H | S=0.25H

UGR transversal	≤ 19
UGR axial	≤ 19

LUMINOUS FLUX value calculated for colour white, cover opal microprismatic -5 %, jut-out-4 %



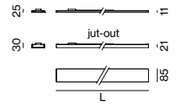
LENO suspended

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	613	051-893006
channel	1221	051-893012
channel	1830	051-893018
channel	2438	051-893024

order installation channel, light inset + mounting accessories separately

UGR ≤ 19 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240 V | X-PERT



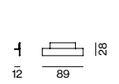
LIGHT INSET

SYSTEM POWER	L (mm)	ORDER CODE
10.8 W	612*	051-8112::37
19.1 W	1220	051-8214::37
28.6 W	1828	051-8216::37
38 W	2436	051-8218::37

*only available as end unit

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K	17.6 W/m	2010 lm/m	129 lm/W
	4000 K		2130 lm/m	137 lm/W
microprismatic UGR ≤ 19	3000 K	17.6 W/m	1900 lm/m	122 lm/W
	4000 K		2010 lm/m	129 lm/W
jut-out	3000 K	17.6 W/m	1930 lm/m	124 lm/W
	4000 K		2040 lm/m	131 lm/W

Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	051-899221

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (pair)	051-8993110
linear connector (10 pairs)	051-8993110.10

CABLE SUSPENSION

L (mm)	ORDER CODE
1500	005-2122110

CANOPY / CABLE RAIL

TYPE	L (mm)	ORDER CODE
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
cable rail	1200	005-2491110

for electrical system configuration see luminaire data sheet at xal.com

POWER FEEDER CONNECTOR 220–240 V | 13A

TYPE	ORDER CODE
power feeder connector	051-8992330

DISMOUNTING TOOL

TYPE	ORDER CODE
vacuum cup	086-30000

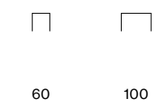
Sharpen your profile system

MINIMAL system

EN A minimalist, continuous lighting system with maximum design freedom – MINIMAL makes this combination possible. The system luminaire is rimless, can be varied in length and thus be individually combined. CORNER elements create the perfect connection between the individual system luminaires. Designed for indoor use, the microprismatic cover version offers a standard-compliant reduced glare value for ideal workplace lighting. When using the opal cover, homogeneous room illumination is achieved, whereas the wallwasher insert provides uniform wall illumination. The MINIMAL system luminaire is available in the light colours 3000 K, 4000 K, and optionally in Tunable White.

ES MINIMAL hace posible la combinación de un sistema de iluminación continuo y minimalista con la máxima libertad de diseño. La luminaria modular no tiene bordes y es de longitud variable, por lo que puede combinarse individualmente. Los elementos CORNER posibilitan la unión perfecta entre las distintas luminarias modulares. Concebida para interiores, la variante con difusor microprismática ofrece un índice de deslumbramiento reducido adaptado a la normativa para una iluminación perfecta de puestos de trabajo. El uso del difusor opal permite lograr un alumbrado general homogéneo. Por su parte, el inserto bañador de luz garantiza una iluminación uniforme de paredes. La luminaria modular MINIMAL está disponible en temperaturas de color de 3000 K, 4000 K y, opcionalmente, Tunable White.

Types



60 100

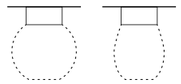
Mounting

trimless
recessed

Configurations

linear corner

Light distributions



opal microprismatic
(UGR ≤ 19)

back

MINIMAL 60 system

recessed trimless

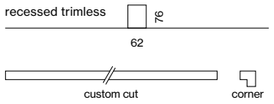
EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; for continuous lighting systems; for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-eff. LEDs – very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; para montaje sin marco en techos de yeso; con diseño especial en los bordes para facilitar una mejor fijación del producto ; para sistemas de iluminación continuos; para espesores de techo de 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
up to 2760 lm/m
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types

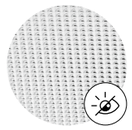


Colour

Light distributions

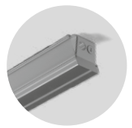
DiiA® standards
251, 252, 253

single luminaire
(p. 510)



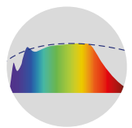
microprismatic
UGR ≤ 19

wallwasher
inset (p. 944)



concrete install.
housing (p. 946)

tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

○ traffic white RAL 9016

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G
blind cover**	B

*UGR ≤ 19 only with mid lumen
**only for channel corner 90°

EMERGENCY LIGHT

1 h Accupack	N L 1
3 h Accupack	N L 3

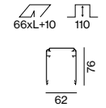
Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

MINIMAL 60 trimless

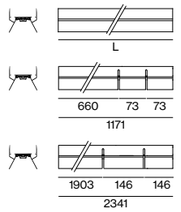


INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	036-01247
channel	1472	036-01547
channel	3000	036-03047
channel	custom	E82030 · · · · 7
channel corner 90° + cover	140x140	036-12647 ◘

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-16122 ◘
linear	1470	006-16152 ◘
linear	2997	006-16302 ◘
linear	custom	E80630 · · · · 0 ◘
continuous linear	6000	006-23061H
continuous linear	25000	006-23251H
blind cover	3000	006-18307
blind cover	custom	E80630 · · · · 7B



LIGHT INSET 60

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-93 2 7
13 / 20.6 W	871	007-93 3 7
15.3 / 27.5 W	1171	007-93 4 7
19.2 / 34 W	1463	007-93 5 7 ●
31 / 55 W	2341	007-93 8 7
38 / 68 W	2997	007-93 9 7
flexible inset 15.3 / 27.5 W	660-1171	007-93 F 7
flexible inset 31 / 55 W	1903-2341	007-93 G 7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1540 lm/m	118 lm/W
high performance	4000 K		1640 lm/m	125 lm/W
high lumen / opal	3000 K	24 W/m	2540 lm/m	110 lm/W
high performance	4000 K		2700 lm/m	116 lm/W

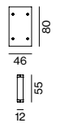
LIGHT INSET 60 tunable white 2700 – 6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-9333D37
29 W	1171	007-9334D37
36 W	1463	007-9335D37
58 W	2341	007-9338D37

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	036-13047



LINEAR CONNECTOR / THROUGH WIRE

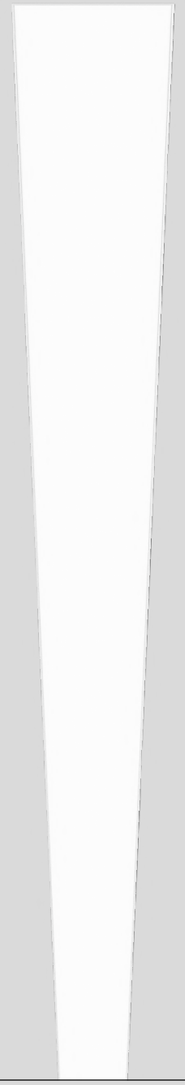
TYPE	ORDER CODE
linear connector (1 piece)	005-40046
linear connector (10 pieces)	005-40046.10
opal cover linear connector	006-14000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	036-10200
mounting bracket (25 pieces)	8-25	036-10200.25

number of brackets required: length of your system in metres+1

back



MINIMAL 100 system

recessed trimless

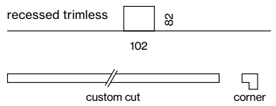
EN Luminaire housing made of extruded aluminium; for trimless installation in plasterboard ceilings; special edge design with grooves for better adhesion of filler; for continuous lighting systems; for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-eff. LEDs – very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; para montaje sin marco en techos de yeso; con diseño especial en los bordes para facilitar una mejor fijación del producto ; para sistemas de iluminación continuos; para espesores de techo de 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 3090 lm/m
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colour

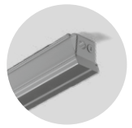
Light distributions

DiiA® standards
251, 252, 253

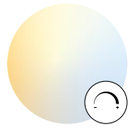
single luminaire
(p. 512)

DIN EN 12464-1
UGR ≤ 19

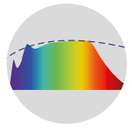
wallwasher
inset (p. 944)



concrete install.
housing (p. 946)



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

○ traffic white RAL 9016	

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G
blind cover**	B

*UGR ≤ 19 only with mid lumen
**only for channel corner 90°

EMERGENCY LIGHT

1 h Accupack	N L 1
3 h Accupack	N L 3

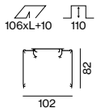
Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10%

MINIMAL 100 trimless



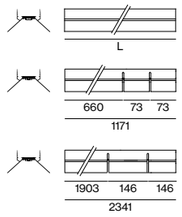
INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	036-01267
channel	1472	036-01567
channel	3000	036-03067
channel	custom	E82050 · · · · 7
channel corner 90° + cover	200x200	036-12667 □

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-12122 □
linear	1470	006-12152 □
linear	2997	006-12302 □
linear	custom	E80650 · · · · 0 □
blind cover	3000	006-11307
blind cover	custom	E80650 · · · · 7B

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB



LIGHT INSET 100

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-86 🔔2 ⁘ ⇕7
13 / 20.6 W	871	007-86 🔔3 ⁘ ⇕7
15.3 / 27.5 W	1171	007-86 🔔4 ⁘ ⇕7
19.2 / 34 W	1463	007-86 🔔5 ⁘ ⇕7 ●
31 / 55 W	2341	007-86 🔔8 ⁘ ⇕7
38 / 68 W	2997	007-86 🔔9 ⁘ ⇕7
flexible inset 15.3 / 27.5 W	660-1171	007-86 🔔F ⁘ ⇕7
flexible inset 31 / 55 W	1903-2341	007-86 🔔G ⁘ ⇕7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1770 lm/m	132 lm/W
high performance	4000 K		1870 lm/m	140 lm/W
high lumen / opal	3000 K	24 W/m	2920 lm/m	123 lm/W
high performance	4000 K		3090 lm/m	130 lm/W

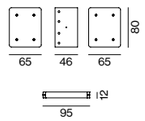
LIGHT INSET 100 tunable white 2700 – 6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-8633D37
29 W	1171	007-8634D37
36 W	1463	007-8635D37
58 W	2341	007-8638D37

Accessories

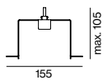
END CAPS

TYPE	ORDER CODE
end caps (pair)	036-13067



LINEAR CONNECTOR / THROUGH WIRE

TYPE	ORDER CODE
linear connector (1 piece)	005-40066
linear connector (10 pieces)	005-40066.10
opal cover linear connector	006-10000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

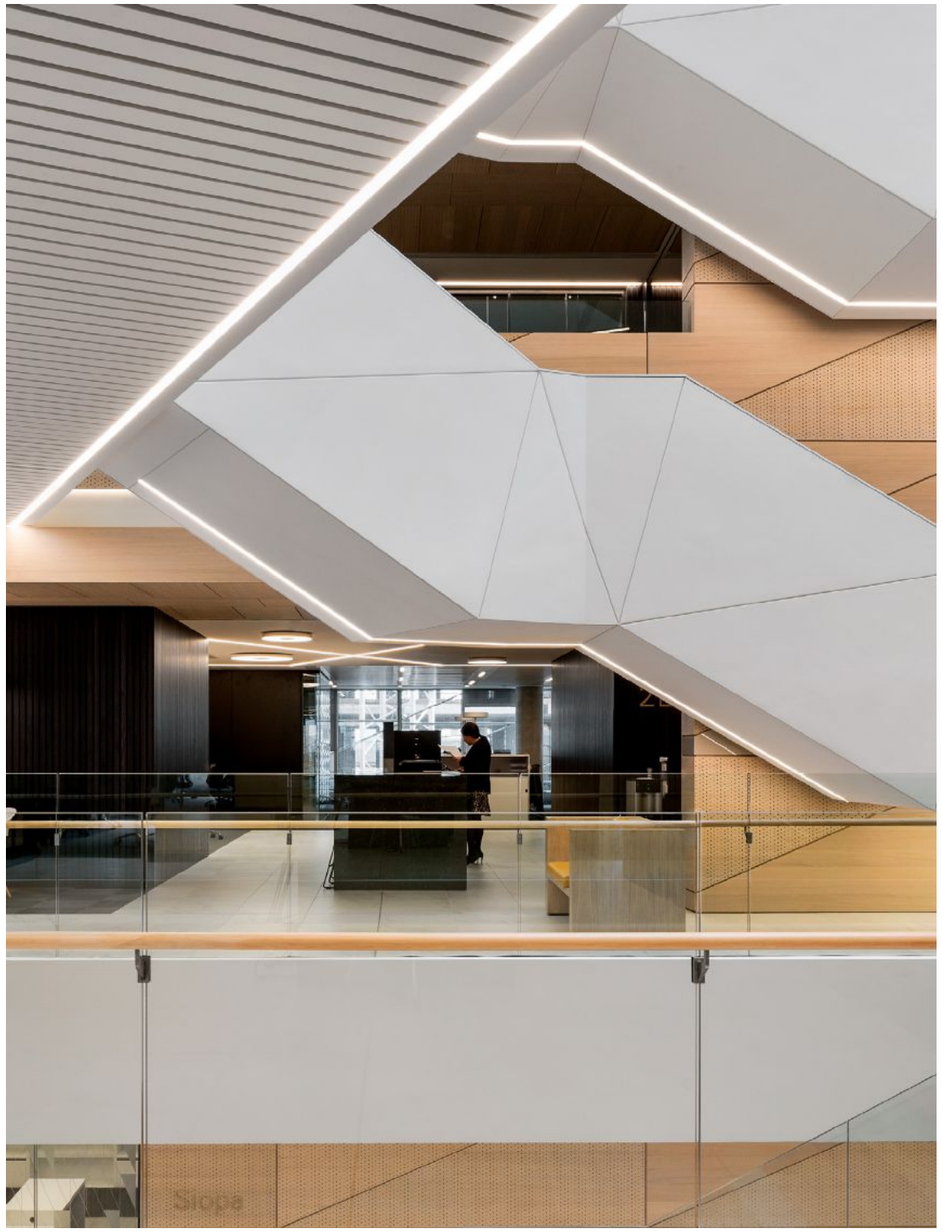


MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8–25	036-10300
mounting bracket (25 pieces)	8–25	036-10300.25

number of brackets required: length of your system in metres+1

Bank of Ireland Dublin, IE –
by Henry J Lyons Architects with lighting
design by O'Connor Sutton Cronin



Telecable
Gijón, ES –
by Arquitectos
Pablo Poch Duo Comunicacion with
lighting design by Lux Gijón

Outline your profile system

FRAME system

EN The FRAME system luminaire sets no limits on office lighting and profile-based ambient lighting. Thanks to special flex insets, FRAME can be shortened on-site and thus adapted to all conditions. The system luminaire connects to form a light band, creating continuous lighting. Corner connectors thus create a continuous lighting system. The lighting insets also leave nothing to be desired – whether insets with opal cover for uniform room illumination, or the microprismatic cover for light suitable for workplaces. Available light colours range from 3000 K to 4000 K and optional Tunable White, and a colour rendering of up to CRI ≥ 98 (XPECTRUM).

ES La luminaria modular FRAME satisface cualquier necesidad en las áreas de la iluminación de oficina y del alumbrado general con sistemas de perfiles. Gracias a sus insertos Flex especiales, FRAME puede acortarse en el propio lugar de instalación y adaptarse así a cualquier circunstancia. La luminaria modular puede unirse en forma de banda luminosa creando un alumbrado ininterrumpido. Los conectores de esquinas hacen posible la obtención de un sistema de iluminación continuo. Los insertos luminosos también satisfacen cualquier requisito, cubiertos con un difusor opal para un alumbrado interior uniforme o dotados de una cubierta microprismática para una iluminación adaptada a puestos de trabajo. En el área de la temperatura de color puede elegirse entre 3000 K, 4000 K y, opcionalmente, Tunable White. Por su parte, la reproducción cromática alcanza un índice IRC ≥ 98 (XPECTRUM).

Types

40 60 100

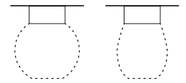
Mounting

with trim recessed

Configurations

linear corner

Light distributions



opal microprismatic (UGR ≤ 19)

back

FRAME 40 system

recessed with trim

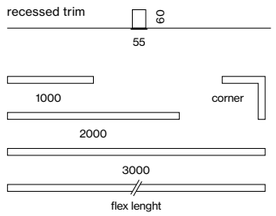
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile incl. light inset; cover in the length of the light inset or continuous cover (both separately available); pre-assembled power rail for power supply in luminaire profile; voltage tap of the light inset on the power rail; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; diseñado para la creación de sistemas contínuos; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; perfil de lumin. con inserto lumin.; difusor en longitud de inserto luminoso o continuo (ambos deben encargarse por separado); carril eléctrico premont. para suministro de corr. en perfil de lumin.; toma de corr. para inserto lumin. en carril eléctrico; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 2340 lm/m
up to 102 lm/W
L90 @ 50 000 h
DALI-2
opal

Types

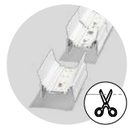


Colours

Light distribution

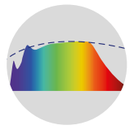
DiiA® standards
251, 252, 253

single luminaire
(p. 518)



flexible
inset

tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

LED TYPE

mid lumen	1
high lumen	2

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● white aluminium RAL 9006	G

LIGHT OPTIC COVER

opal high performance

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

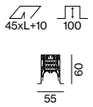
LIGHT OPTIC COVER

microprismatic

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

FRAME 40 trim

CRI ≥ 90 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V



INSTALLATION CHANNEL + LIGHT INSET

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
15.3 / 22.9 W	1000	042-702 :: 3
30.5 / 46 W	2000	042-704 :: 3
46 / 69 W	3000	042-706 :: 3
15.3 / 22.9 W flex	500 – 1000	042-70F :: 3
30.5 / 46 W flex	1500 – 2000	042-70G :: 3
15.3 / 22.9 W corner	500 × 500	042-70C :: 3

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	15.3 W/m	1480 lm/m	97 lm/W
high performance	4000 K		1560 lm/m	102 lm/W
high lumen / opal	3000 K	22.9 W/m	2210 lm/m	97 lm/W
high performance	4000 K		2340 lm/m	102 lm/W

LIGHT OPTIC COVER 40

TYPE	L (mm)	ORDER CODE
linear	1000	006-421001 0H
linear	2000	006-422001 0H
linear	3000	006-423001 0H
corner	500 × 500	006-420502 0H
continuous linear	6000	006-220601 0H
continuous linear	30000	006-223001 0H

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	042-709001

CHANNEL + BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1000	042-709421
linear	2000	042-709441
linear	3000	042-709461
corner	500 × 500	042-7094C1

POWER FEEDER UNIT

TYPE	ORDER CODE
power feeder unit	042-1093230

LINEAR CONNECTOR

TYPE	ORDER CODE
mechanical linear connector	042-7091110
mechanical + electrical linear connector	042-7091230
opal cover linear connector	042-1091910

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	042-7092110
mounting bracket (25 pieces)	8-25	042-7092110.25

number of brackets required: length of your system in metres+1

FRAME 60 system

recessed with trim

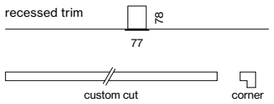
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wall-washer light inset; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; diseñado para la creación de sistemas contínuos; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
up to 2760 lm/m
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



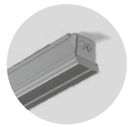
Colours

Light distributions

DiiA® standards 251, 252, 253

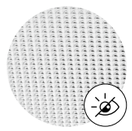
single luminaire (p. 520)

wallwasher inset (p. 944)



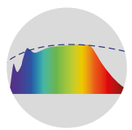
concrete install. housing (p. 946)

flexible inset



microprismatic UGR ≤ 19

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● white aluminium RAL 9006	G

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G
blind cover**	B

*UGR ≤ 19 only with mid lumen
**only for channel corner 90°

EMERGENCY LIGHT

1 h Accupack	N L 1
3 h Accupack	N L 3

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

INSTALLATION CHANNEL

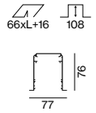
curve

CONNECTOR

X- and T-connector

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

FRAME 60 trim



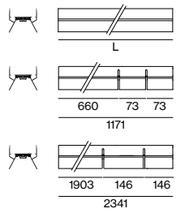
INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	035-0123
channel	1472	035-0153
channel	3000	035-0303
channel	custom	E82140 · · · ·
channel corner 90° + cover	144x144	035-1263

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-16122
linear	1470	006-16152
linear	2997	006-16302
linear	custom	E80630 · · · · 0
continuous linear	6000	006-23061H
continuous linear	25000	006-23251H
blind cover	3000	006-1830
blind cover	custom	E80630 · · · · B

CRI ≥ 90 · RG 0 IEC 62471 · DALI 1 ADDR. · 220-240V · CB



LIGHT INSET 60

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-93 2 7
13 / 20.6 W	871	007-93 3 7
15.3 / 27.5 W	1171	007-93 4 7
19.2 / 34 W	1463	007-93 5 7 ●
31 / 55 W	2341	007-93 8 7
38 / 68 W	2997	007-93 9 7
flexible inset 15.3 / 27.5 W	660-1171	007-93 F 7
flexible inset 31 / 55 W	1903-2341	007-93 G 7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1540 lm/m	118 lm/W
high performance	4000 K		1640 lm/m	125 lm/W
high lumen / opal	3000 K	24 W/m	2540 lm/m	110 lm/W
high performance	4000 K		2700 lm/m	116 lm/W

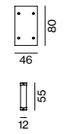
LIGHT INSET 60 tunable white 2700 – 6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-9333D37
29 W	1171	007-9334D37
36 W	1463	007-9335D37
58 W	2341	007-9338D37

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	035-1313



LINEAR CONNECTOR / THROUGH WIRE

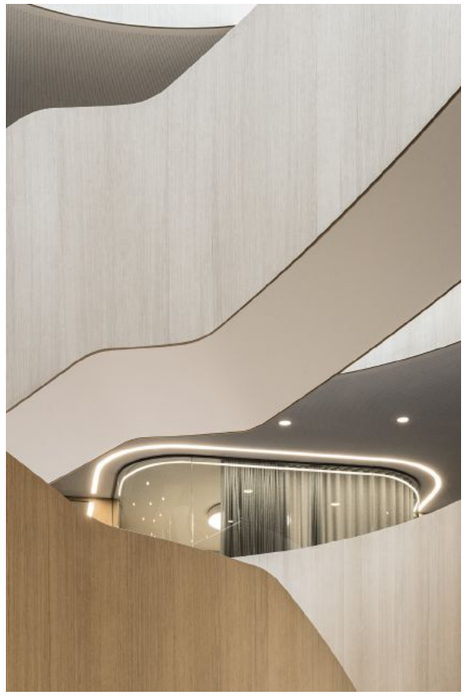
TYPE	ORDER CODE
linear connector (1 piece)	005-40046
linear connector (10 pieces)	005-40046.10
opal cover linear connector	006-14000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

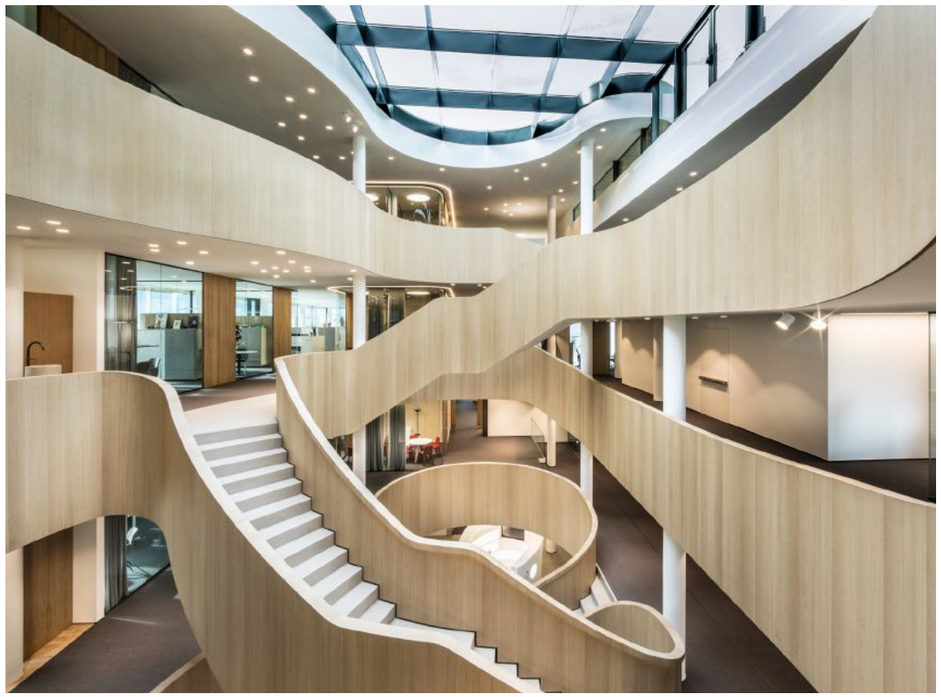
MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	035-10200
mounting bracket (25 pieces)	8-25	035-10200.25

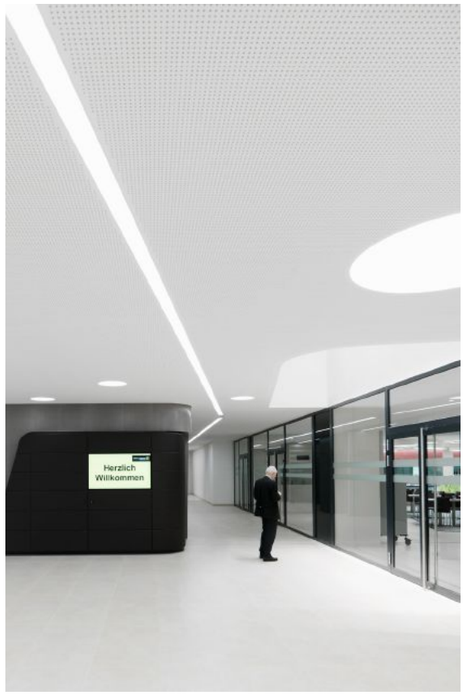
number of brackets required: length of your system in metres+1

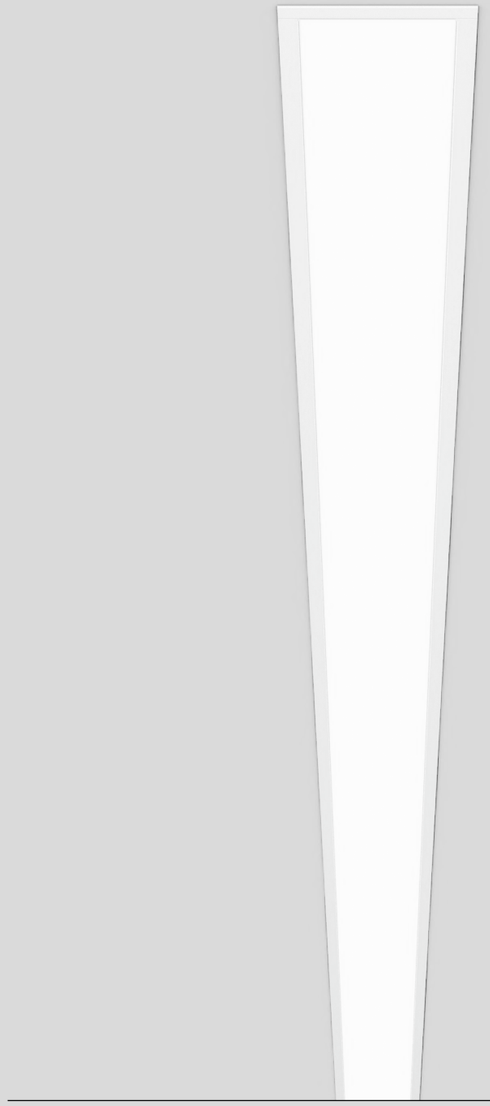
Dr. Schaer Burgstall, IT –
by monovolume architecture+design
with lighting design by VON LUTZ -
electrical and lighting projects /
Alexa von Lutz





RLB headquarters Graz, AT –
by Strohecker ZT GmbH with lighting
design by Klauss Elektro-Anlagen





FRAME 100 system

recessed with trim

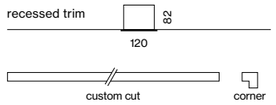
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; for continuous lighting systems; for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; diseñado para la creación de sistemas contínuos; apropiada para grosores de techo entre 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 3090 lm/m
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



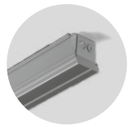
Colours

Light distributions

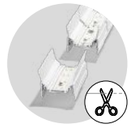
DiiA® standards
251, 252, 253

single luminaire
(p. 522)

wallwasher
inset (p. 944)

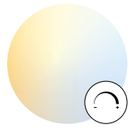


concrete install.
housing (p. 946)

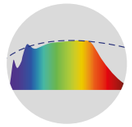


flexible
inset

DIN EN 12464-1
UGR ≤ 19



tunable white
2700 – 6500 K



CRI ≥ 98
XPECTRUM

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● white aluminium RAL 9006	G

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G
blind cover**	B

*UGR ≤ 19 only with mid lumen
**only for channel corner 90°

EMERGENCY LIGHT

1 h Accupack	N L 1
3 h Accupack	N L 3

Options on request

COLOUR RENDERING INDEX

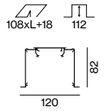
CRI ≥ 98 XPECTRUM

CONNECTOR

X- and T-connector

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10%

FRAME 100 trim



INSTALLATION CHANNEL / CORNER 90°

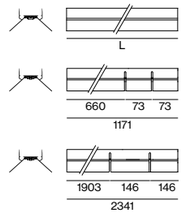
TYPE	L (mm)	ORDER CODE
channel	1172	035-01254
channel	1472	035-01554
channel	3000	035-03054
channel	custom	E82150 · · · · 4
channel corner 90° + cover	205x205	035-12654 B

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-12122 B
linear	1470	006-12152 B
linear	2997	006-12302 B
linear	custom	E80650 · · · · 0 B
blind cover	3000	006-11304
blind cover	custom	E80650 · · · · 4

CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 3000 | RG 0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB

LIGHT INSET 100



SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-86 2 7
13 / 20.6 W	871	007-86 3 7
15.3 / 27.5 W	1171	007-86 4 7
19.2 / 34 W	1463	007-86 5 7 ●
31 / 55 W	2341	007-86 8 7
38 / 68 W	2997	007-86 9 7
15.3 / 27.5 W flex	660-1171	007-86 F 7
31 / 55 W flex	1903-2341	007-86 G 7

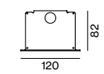
COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1770 lm/m	132 lm/W
high performance	4000 K		1870 lm/m	140 lm/W
high lumen / opal	3000 K	24 W/m	2920 lm/m	123 lm/W
high performance	4000 K		3090 lm/m	130 lm/W

LIGHT INSET 100 tunable white 2700 – 6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-8633 D37
29 W	1171	007-8634 D37
36 W	1463	007-8635 D37
58 W	2341	007-8638 D37

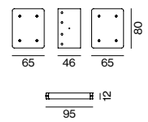
Accessories

END CAPS



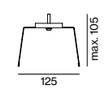
TYPE	ORDER CODE
end caps (pair)	035-13154

LINEAR CONNECTOR / THROUGH WIRE



TYPE	ORDER CODE
linear connector (1 piece)	005-40066
linear connector (10 pieces)	005-40066.10
opal cover linear connector	006-10000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

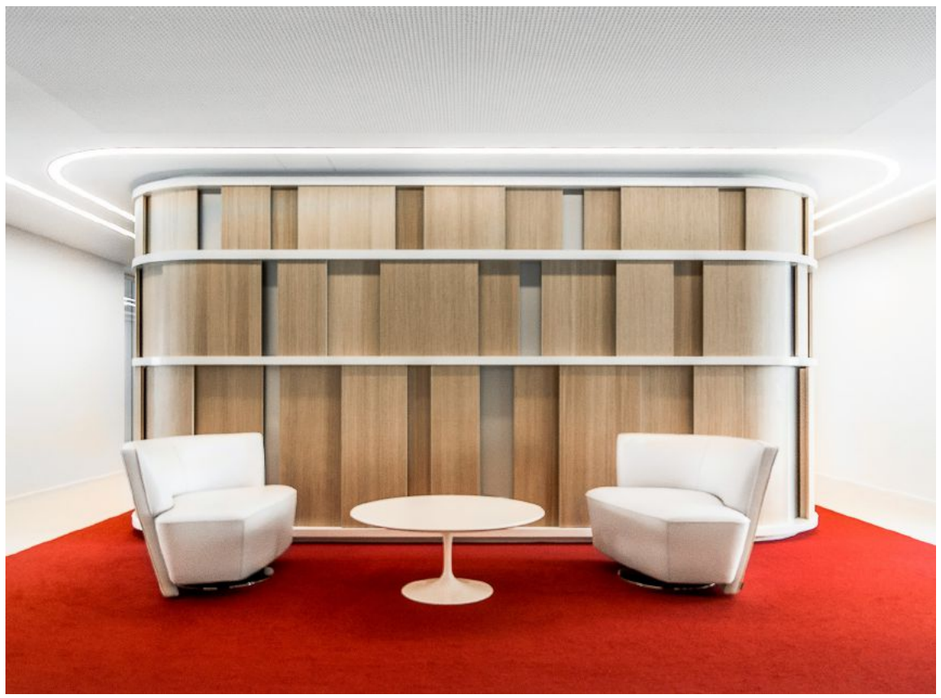
MOUNTING BRACKET



TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	035-10230
mounting bracket (25 pieces)	8-25	035-10230.25

number of brackets required: length of your system in metres+1

CMS Office Paris, FR –
by Lobjoy & Bouvier & Boisseau



Discreet profile system

CANYON system

EN The CANYON system luminaire radiates calm and makes visitors feel welcome – whether in entrance halls, at the reception, or in corridors or lounges. The specially developed, flex insets, which can be shortened, make the luminaire a true all-round talent; with its tailored profile length, the luminaire can also be transformed into a customised lighting system by using CORNER elements. Also noteworthy: When combined with the opal cover, the CANYON system luminaire creates uniform ambient lighting. For workstations, it can be perfectly adapted to office conditions using insets with microprismatic covers.

ES La luminaria modular CANYON irradia tranquilidad y hace que los visitantes –ya sea en vestíbulos, en la recepción, en pasillos o en salas de descanso– se sientan bienvenidos. Los insertos Flex acortables de creación especial convierten a esta luminaria en una verdadera multitalento: con la longitud de perfil deseada, la luminaria puede transformarse asimismo en un sistema de iluminación individual utilizando elementos CORNER. Otro aspecto destacable es que, en combinación con el difusor opal, la luminaria modular CANYON proporciona un alumbrado general uniforme. En puestos de trabajo, la luminaria puede adaptarse perfectamente a cualquier entorno de oficina con insertos dotados de difusor microprismático.

Type

60

Mounting

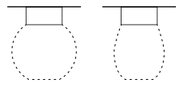
trim
recessed

Configurations

linear

corner

Light distributions



opal

microprismatic
(UGR ≤ 19)

back

CANYON 60 system

recessed offset with trim

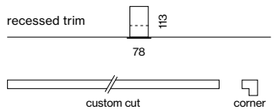
EN Luminaire housing made of extruded aluminium; uncluttered ceiling look through recessed lighting level; recessed luminaire with trim; for continuous lighting systems; for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-efficient LEDs with very good colour rendering

ES Cuerpo de lámpara de perfil extrusionado de aluminio; vista de techo con luminaria empotrada; luminaria empotrable con marco; para sistemas de iluminación continuos; para espesores de techo de 8-25 mm; superficie con recubrimiento de pintura en polvo; Perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
up to 2280 lm/m
up to 105 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic

Types



Colours

Light distributions

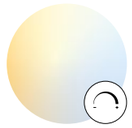
DiiA® standards 251, 252, 253

single luminaire (p. 528)

wallwasher inset (p. 944)

ball-impact-resistant

glare control UGR ≤ 19



tunable white 2700 – 6500 K

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

○ traffic white RAL 9016	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
blind cover*	B

*only for channel corner 90°

EMERGENCY LIGHT

1 h Accupack	N L 1
3 h Accupack	N L 3

Options on request

COLOUR RENDERING INDEX

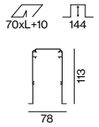
CRI ≥ 98 XPECTRUM

CONNECTOR

X- and T-connector

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

CANYON 60 trim offset



INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	038-5127
channel	1472	038-5157
channel	3000	038-5307
channel	custom	E82330 · · · ·
channel corner 90° + cover	144x144	038-6267

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-16122
linear	1470	006-16152
linear	2997	006-16302
linear	custom	E80630 · · · · 0
blind cover	1472	006-1815
blind cover	custom	E80630 · · · · B

CRI ≥ 90 | RG0 IEC 62471 | DALI 1 ADDR. | 220-240V | CB

LIGHT INSET 60

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-93 2 7
13 / 20.6 W	871	007-93 3 7
15.3 / 27.5 W	1171	007-93 4 7
19.2 / 34 W	1463	007-93 5 7 ●
31 / 55 W	2341	007-93 8 7
38 / 68 W	2997	007-93 9 7
15.3 / 27.5 W flex	660-1171	007-93 F 7
31 / 55 W flex	1903-2341	007-93 G 7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1300 lm/m	99 lm/W
high performance	4000 K		1380 lm/m	105 lm/W
high lumen / opal	3000 K	24 W/m	2160 lm/m	92 lm/W
high performance	4000 K		2280 lm/m	98 lm/W

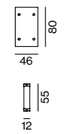
LIGHT INSET 60 tunable white 2700 – 6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-9333D37
29 W	1171	007-9334D37
36 W	1463	007-9335D37
58 W	2341	007-9338D37

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	038-6307



LINEAR CONNECTOR / THROUGH WIRE

TYPE	ORDER CODE
linear connector (1 piece)	005-40046
linear connector (10 pieces)	005-40046.10
opal cover linear connector	006-14000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	038-60700
mounting bracket (25 pieces)	8-25	038-60700.25

number of brackets required: length of your system in metres+1

Microsoft headquarters
Vienna, AT – by INNOCAD Architektur ZT

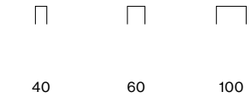
Define your profile system

MINO system

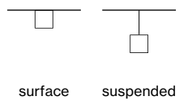
EN The MINO system luminaire complements the multifaceted nature of the MINO single luminaire. Whether as a surface-mounted version for wall or ceiling mounting, or as a suspended version with an indirect light component, the MINO System luminaire is truly versatile. Using CURVE elements, which come in various radii, and CORNER elements, the luminaires are transformed into a continuous lighting system. With three standard and additional special colours available, MINO can be customised according to the desired room concept. You can also combine the light insets for homogeneous ambient lighting with an opal cover. Other options include the use of a wallwasher for a uniformly illuminated wall surface, or the microprismatic cover specially designed for workstations. Excellent colour rendering and three possible light colours complete the MINO system luminaire.

ES La luminaria modular MINO completa la gran versatilidad de la luminaria individual MINO. Ya sea como variante de superficie para el montaje en pared o techo o en el modelo de suspensión con proporción de luz indirecta, la luminaria modular MINO admite un uso muy variado. Mediante elementos CORNER y los elementos CURVE disponibles en radios diversos, las distintas luminarias se transforman en un sistema de iluminación continuo. Los tres colores estándar y otros colores especiales disponibles hacen que MINO pueda adaptarse al diseño interior específico. Si lo desea, puede combinar (incluso parcialmente) los insertos luminosos con un difusor opal para obtener un alumbrado general homogéneo o con un bañador de luz para la iluminación uniforme de paredes, o utilizar un difusor microprismático concebido especialmente para la iluminación de puestos de trabajo. La luminaria modular MINO se completa con una muy buena reproducción cromática y tres temperaturas de color disponibles.

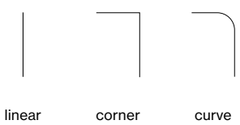
Types



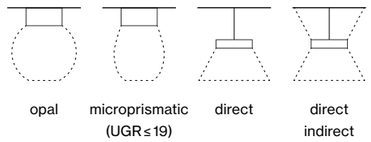
Mountings



Configurations



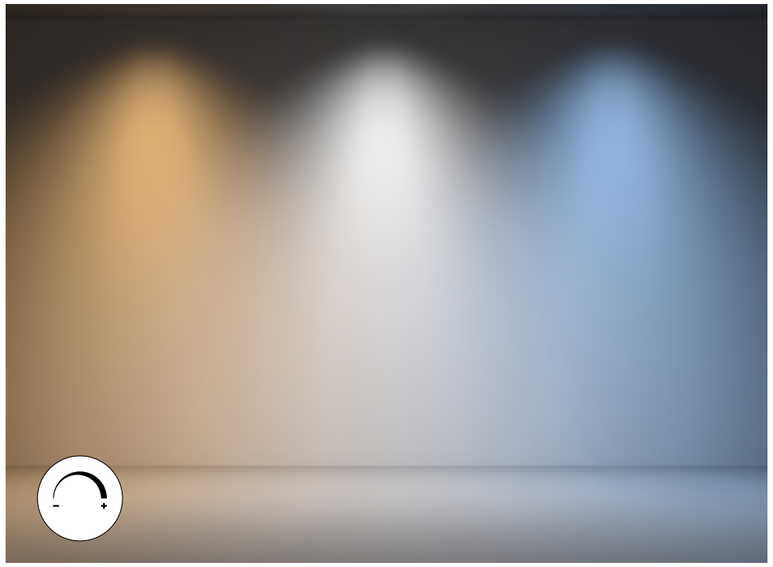
Light distributions



TW – Tunable White

EN Changes in the colour of light have a substantial effect on our mood. Tunable White allows the colour temperature to be continuously adjusted from 2700 K (warm light) to 6500 K (cool light) to dynamically adapt the lighting to the time of day or ambient brightness.

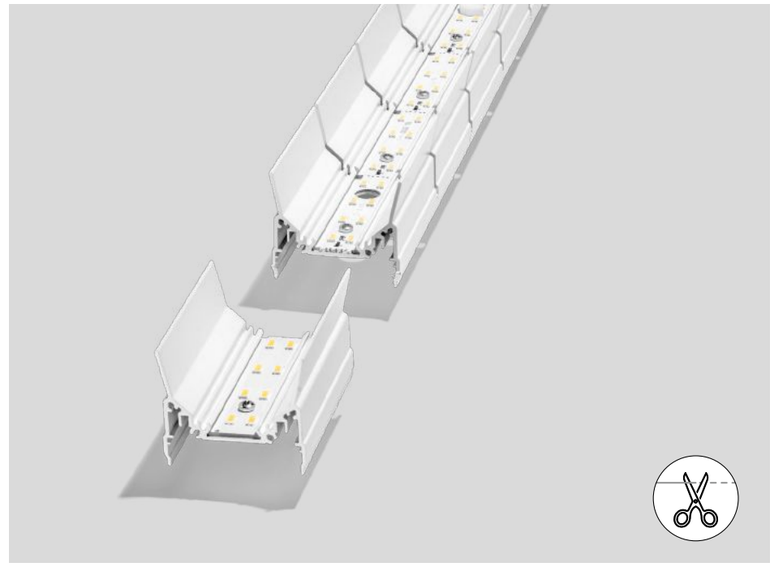
ES Los cambios de color de la luz tienen un efecto considerable en nuestro estado de ánimo. Tunable White hace posible una modificación continua de la temperatura de color desde 2700 K (luz cálida) hasta 6500 K (luz fría), con el fin de adaptar la iluminación de forma dinámica a la hora del día o a la luminosidad del entorno.



Precise planning with flex insets

EN Your lighting system can be easily adapted to existing room dimensions. You can determine bespoke lengths for MINO. The special flex insets are precisely and flexibly adapted on-site during assembly. Boards are simply cut off at prefabricated breakpoints. This gives you a free hand and minimal restrictions in the lighting design.

ES Su sistema de iluminación puede adaptarse fácilmente a las dimensiones espaciales requeridas. Para los perfiles Advanced, puede elegir las longitudes que prefiera. Las inserciones especiales Flex se adaptan durante el montaje con exactitud y flexibilidad: las pletinas se separan fácilmente por áreas de rotura prefabricadas. Esto le ofrece una total libertad y evita numerosas restricciones en la planificación de la iluminación.

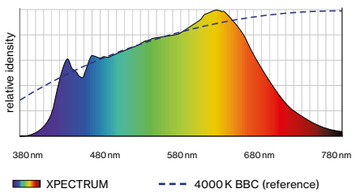


Full-spectrum LED

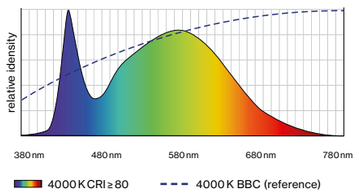
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light component and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30–15 R_f = 98 and R_g = 101 further helps visual comfort.

ES El nuevo LED XPECTRUM de XAL ofrece una luz saludable con efectos biológicos. La menor proporción de luz azul y el aumento de los valores de cian minimizan el riesgo de la incidencia de luz azul en el ojo, manteniéndola a un nivel similar al presente en la luz natural. El efecto no visible resultante, denominado efecto melanópico, fomenta la concentración y mejora la calidad del sueño. Además, su excelente reproducción cromática –con índices R_f = 98 y R_g = 101 según la norma IES TM-30-15– garantiza una mayor comodidad visual.

XPECTRUM LED



Commercially available LED 4000 K



Colour variety

EN MINO is available in the standard colours black, grey, and white. Further colour variations are also available, granting your project maximum design freedom. You can learn more about our colour palette at xal.com/colours.

ES Todos los perfiles Advanced están disponibles en diversos colores estándar. Además existen otras gamas de color disponibles, lo que le proporciona la máxima libertad de diseño para su proyecto. Encontrará más información sobre nuestra paleta de colores en xal.com/colours.

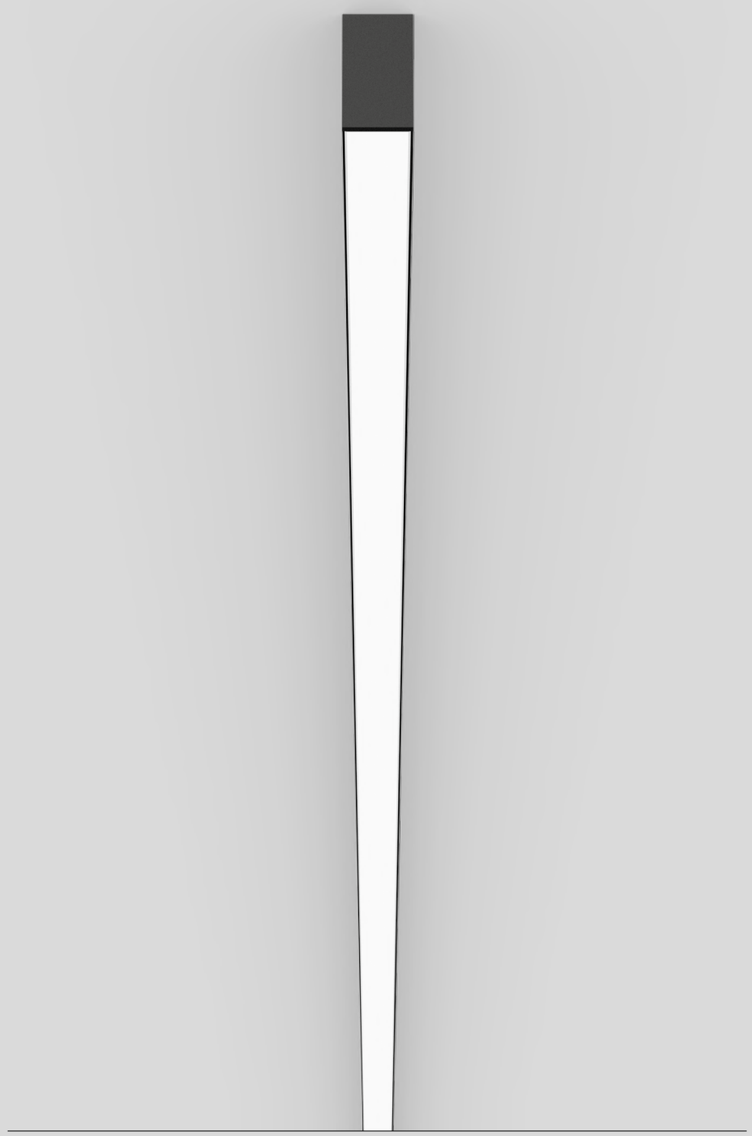
xal.com/colours

Curves & edges

EN Let your creativity run wild and combine straight profiles with precise corners or harmonious curves. The curve profiles are available in different radii to generate maximum design freedom.

ES Dé rienda suelta a su creatividad conectando perfiles rectilíneos a esquinas precisas o curvas armoniosas. Los perfiles curvos están disponibles en distintos radios para ofrecer la máxima libertad de diseño. Ya que todos los elementos de perfil encajan entre sí, podrá diseñar sistemas de configuración personalizada adaptados a sus deseos y al espacio disponible.

back



MINO 40 system

ceiling / suspended

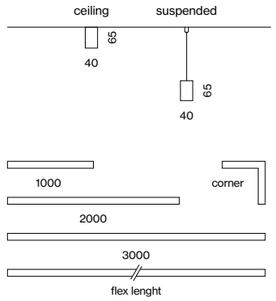
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile incl. light inset; cover in the length of the light inset or continuous cover (both separately available); pre-assembled power rail for power supply in luminaire profile; voltage tap of the light inset on the power rail; pendant fitting with cable suspension; height adjustment without tools; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; perfil de lumin. con inserto lumin.; difusor en longitud de inserto luminoso o continuo (ambos deben encargarse por separado); carril eléctrico premont. para suministro de corr. en perfil de lumin.; toma de corr. para inserto lumin. en carril eléctrico; suspendido con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 2340 lm/m
up to 102 lm/W
L90 @ 50 000 h
DALI-2
opal

Types



Colours

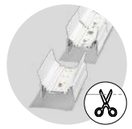
standard xal.com/colours

Light distribution

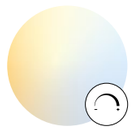
opal

DiiA® standards
251, 252, 253

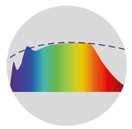
single luminaire (p. 536)



flexible inset



tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

LED TYPE

mid lumen	1
high lumen	2

COLOUR TEMPERATURE

3000 K	0
4000 K	1

CONTROL

DALI-2

MATERIAL COLOUR

○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8
special colours ➔ p. 992	X

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

LIGHT OPTIC COVER

opal high performance

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

COLOUR TEMPERATURE

tunable white 2700 – 6500 K

LIGHT OPTIC COVER

microprismatic

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

MINO 40 ceiling / suspended

CRI ≥ 90 · DALI 1 ADDR. · 220-240 V

INSTALLATION CHANNEL + LIGHT INSET

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
15.3 / 22.9 W	1000	042-10 ● 2 ⁘ 3
30.5 / 46 W	2000	042-10 ● 4 ⁘ 3
46 / 69 W	3000	042-10 ● 6 ⁘ 3
15.3 / 22.9 W flex	500 – 1000	042-10 ● F ⁘ 3
30.5 / 46 W flex	1500 – 2000	042-10 ● G ⁘ 3
15.3 / 22.9 W corner	500 × 500	042-10 ● C ⁘ 3

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	15.3 W/m	1480 lm/m	97 lm/W
high performance	4000 K		1560 lm/m	102 lm/W
high lumen / opal	3000 K	22.9 W/m	2210 lm/m	97 lm/W
high performance	4000 K		2340 lm/m	102 lm/W

LIGHT OPTIC COVER 40

TYPE	L (mm)	ORDER CODE
linear	1000	006-421001 0H
linear	2000	006-422001 0H
linear	3000	006-423001 0H
corner	500 × 500	006-420502 0H
continuous linear	6000	006-220601 0H
continuous linear	30000	006-223001 0H

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	042-109001

CHANNEL + BLIND COVER

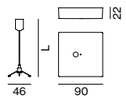
TYPE	L (mm)	ORDER CODE
linear	1000	042-109421
linear	2000	042-109441
linear	3000	042-109461
corner	500 × 500	042-1094C1

POWER FEEDER UNIT

TYPE	ORDER CODE
power feeder unit	042-109323 0

LINEAR CONNECTOR

TYPE	ORDER CODE
mechanical linear connector	042-109111 0
mechanical + electrical linear connector	042-109123 0
opal cover linear connector	042-109191 0



CEILING FASTENER / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling fastener	10	050-204111 ■
cable suspension	1500	005-215211 0
canopy		005-231121 ■
feeder cable (transparent)		005-241241 0

for electrical system configuration see luminaire data sheet at xal.com

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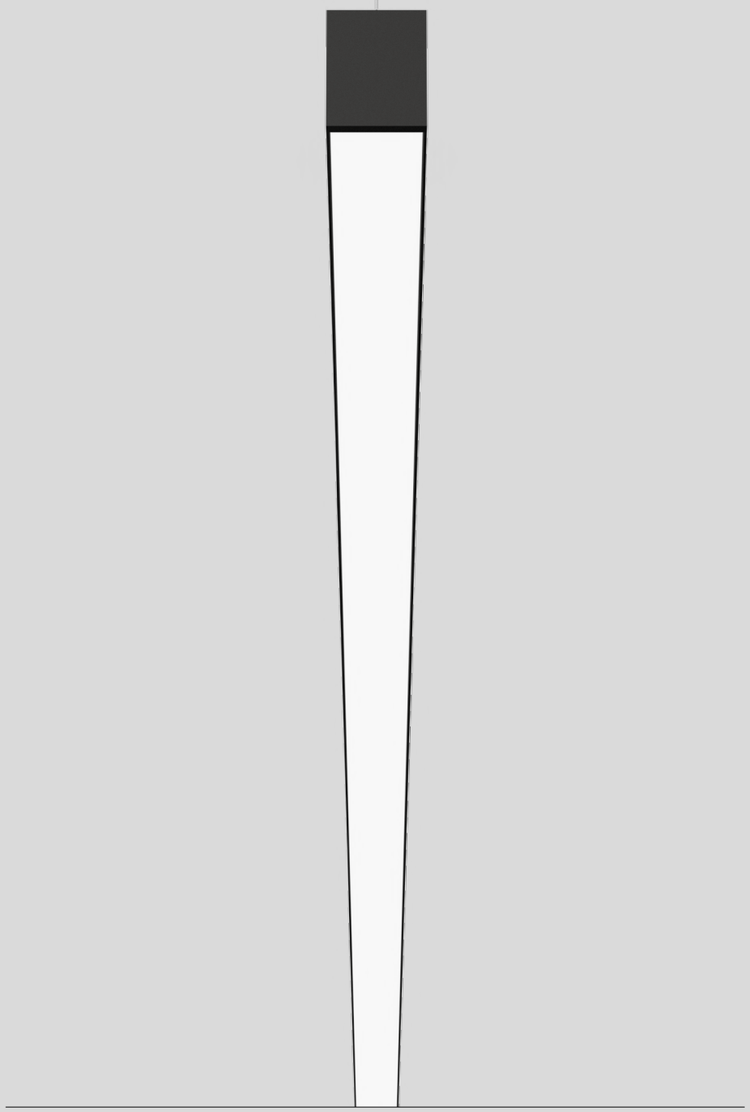


MINO 60 system

ceiling / suspended

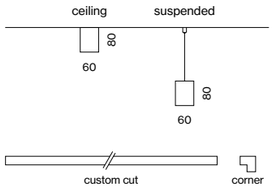
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; suspendido con cable; altura regulable sin herramientas; fijación en la lámpara por medio de clips elásticos; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
up to 2760 lm/m
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

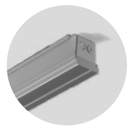
Light distributions

direct direct

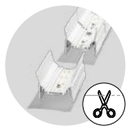
DiiA® standards 251, 252, 253

single luminaire (p. 544)

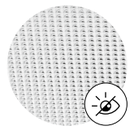
wallwasher inset (p. 944)



concrete install. housing (p. 946)

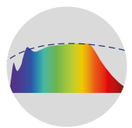


flexible inset



microprismatic UGR ≤ 19

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G
blind cover only for corner 90°	B

*UGR ≤ 19 only with mid lumen

EMERGENCY LIGHT

1 h Accupack	1
3 h Accupack	3

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

CONNECTORS

X- and T-connector

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

MINO 60 ceiling / suspended

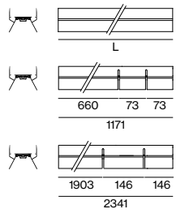
INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	046-400401
channel	1472	046-400501
channel	3000	046-400901
channel	custom	E85031
channel corner 90° + cover	150x150	046-401121

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-16122
linear	1470	006-16152
linear	2997	006-16302
linear	custom	E80630 0
continuous linear	6000	006-23061H
continuous linear	25000	006-23251H
blind cover	3000	006-1830
blind cover	custom	E80630 B

CRI ≥ 90 · DALI 1 ADDR. · 220-240 V · CB



LIGHT INSET 60

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-93 2 7
13 / 20.6 W	871	007-93 3 7
15.3 / 27.5 W	1171	007-93 4 7
19.2 / 34 W	1463	007-93 5 7 ●
31 / 55 W	2341	007-93 8 7
38 / 68 W	2997	007-93 9 7
15.3 / 27.5 W flex	660-1171	007-93 F 7
31 / 55 W flex	1903-2341	007-93 G 7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1540 lm/m	118 lm/W
high performance	4000 K		1640 lm/m	125 lm/W
high lumen / opal	3000 K	24 W/m	2540 lm/m	110 lm/W
high performance	4000 K		2700 lm/m	116 lm/W

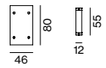
LIGHT INSET 60 tunable white 2700 – 6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-9333D37
29 W	1171	007-9334D37
36 W	1463	007-9335D37
58 W	2341	007-9338D37

Accessories

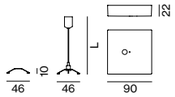
END CAPS

TYPE	ORDER CODE
end caps (pair)	046-501001



LINEAR CONNECTOR / THROUGH WIRE

TYPE	ORDER CODE
linear connector (1 piece)	005-40046
linear connector (10 pieces)	005-40046.10
opal cover linear connector	006-14000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005



CEILING CLIP / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling clip	10	034-11636
cable suspension	1500	005-2122110
canopy / feeder cable 3 × 1.5 mm²	1500	005-221231
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
cable rail	1200	005-2491110

for electrical system configuration see luminaire data sheet at xal.com

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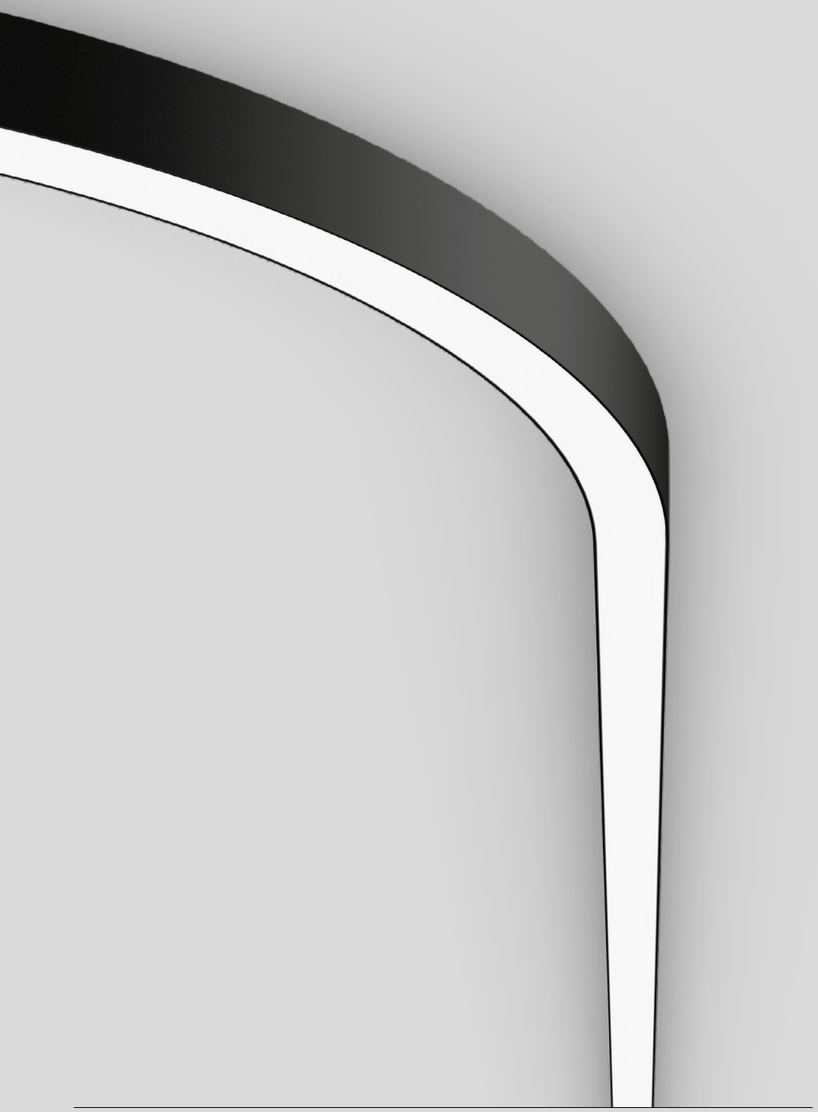


MINO 60 CURVE system

ceiling / suspended

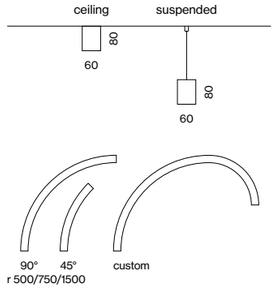
EN Circular segment of rolled aluminium profile, angular design, seamlessly welded; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; light inset consisting of highly reflective coated die-cast aluminium for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-eff. LEDs – very good colour rendering

ES Segmento circular de perfil de aluminio enrollado, versión angulosa, soldado sin costuras; sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; suspendido con cable; altura regulable sin herramientas; fijación en la lámpara por medio de clips elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; elemento de luz formado por fundación de aluminio con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 2850 lm/m
up to 125 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic

Types



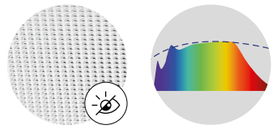
Colours

standard xal.com/colours

Light distributions

direct direct

DiiA® standards
251, 252, 253



microprismatic UGR ≤ 19 CRI ≥ 98 XPECTRUM

Order options

LED TYPE

mid lumen	4
high lumen	5

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours p. 992	X

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z

Options on request

COLOUR RENDERING INDEX

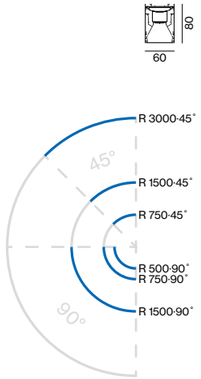
CRI ≥ 90
CRI ≥ 98 XPECTRUM

LIGHT OPTIC COVER

microprismatic (UGR ≤ 19)

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprismatic -13 %

MINO 60 CURVE ceiling / suspended



INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

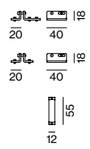
SYSTEM POWER (MID / HIGH LUMEN)	R (mm)	ORDER CODE
12.8 / 16.3 W	500·90°	034-09 5
10.2 / 12.8 W	750·45°	034-09 0
18.1 / 26.1 W	750·90°	034-09 1
18.1 / 26.1 W	1500·45°	034-09 2
36 / 52 W (2 × DALI)	1500·90°	034-09 3
36 / 52 W (2 × DALI)	3000·45°	034-09 4

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	16 W/m	1780 lm/m	116 lm/W
high performance	4000 K		1880 lm/m	122 lm/W
high lumen / opal	3000 K	22 W/m	2420 lm/m	110 lm/W
high performance	4000 K		2560 lm/m	116 lm/W

Accessories

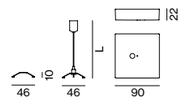
END CAPS

TYPE	ORDER CODE
end caps (pair)	034-090201



LINEAR CONNECTOR

TYPE	ORDER CODE
linear to curve profile	005-40159
curve to curve profile	005-40158
opal cover linear connector	006-14000



CEILING CLIP / CABLE SUSPENSION / CANOPY

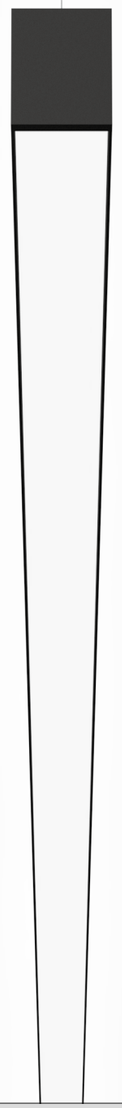
TYPE	L (mm)	ORDER CODE
ceiling clip	10	034-11636
cable suspension	1500	005-2122110
canopy / feeder cable 3 × 1.5 mm²	1500	005-221231
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
cable rail	1200	005-2491110

for electrical system configuration see luminaire data sheet at xal.com

THROUGH WIRE

TYPE	ORDER CODE
3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

back



MINO 60 direct / indirect system

ceiling / suspended

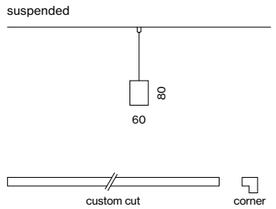
EN Luminaire housing from extruded aluminium profile, angular design; direct / indirect light distribution; no visible screws; designed for continuous lighting systems; surface powder coated; pendant fitting with cable suspension; with integrated tool-less suspension height adjustment; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; característica de emisión directa / indirecta; sin tornillos visibles; diseñado para la creación de sistemas contínuos; superficie con recubrimiento de pintura en polvo; suspendido con cable; regulación de la altura sin necesitar herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incluido cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to ↧ 2470 / ↥ 1610 lm/m
up to 120 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

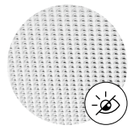
Types



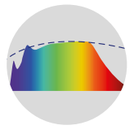
Colours

Light distributions

DiiA® standards
251, 252, 253



microprismatic
UGR ≤ 19



CRI ≥ 98
XPECTRUM

Order options

LED TYPE

mid lumen	1
high lumen	2

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours → p. 992	X

LIGHT OPTIC COVER

opal high performance	H
microprismatic (UGR ≤ 19)	Z

Options on request

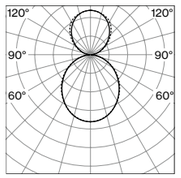
COLOUR RENDERING INDEX

CRI ≥ 90
CRI ≥ 98 XPECTRUM

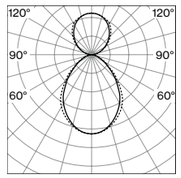
CHANNEL LENGTH

3000 mm

Light distributions



opal
direct / indirect



microprismatic
direct / indirect

LUMINOUS FLUX value calculated for
CRI ≥ 80, colour white, cover opal microprismatic -13 %

MINO 60 direct / indirect suspended

INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
20.1 W / 31 W	872	046-503
26.8 W / 41 W	1172	046-504
34 W / 51 W	1464	046-505
40 W / 62 W	1756	046-506
54 W / 82 W	2344	046-508
26.8 W corner / mid lumen	625x625	046-5051 1
42 W corner / high lumen	625x625	046-5061

COVER	COLOUR TEMP.	SYSTEM POWER	DIRECT LUMENS	INDIRECT LUMENS	EFFICACY
mid lumen / opal high p.	3000 K	22 W/m	1490 lm/m	950 lm/m	113 lm/W
	4000 K		1440 lm/m	1010 lm/m	120 lm/W
high lumen / opal high p.	3000 K	35 W/m	2330 lm/m	1520 lm/m	108 lm/W
	4000 K		2470 lm/m	1610 lm/m	115 lm/W

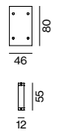
BLIND CHANNEL / BLIND COVER

blind channel	custom	E85031
blind cover	custom	E80630 B

Accessories

END CAPS

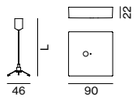
TYPE	ORDER CODE
end caps (pair)	046-501001



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-40046
linear connector (10 pieces)	005-40046.10
opal cover linear connector	006-14000

CABLE SUSPENSION / CANOPY



TYPE	L (mm)	ORDER CODE
cable suspension	1500	005-2122110
canopy / feeder cable 3 × 1.5 mm²	1500	005-221231
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
cable rail	1200	005-2491110

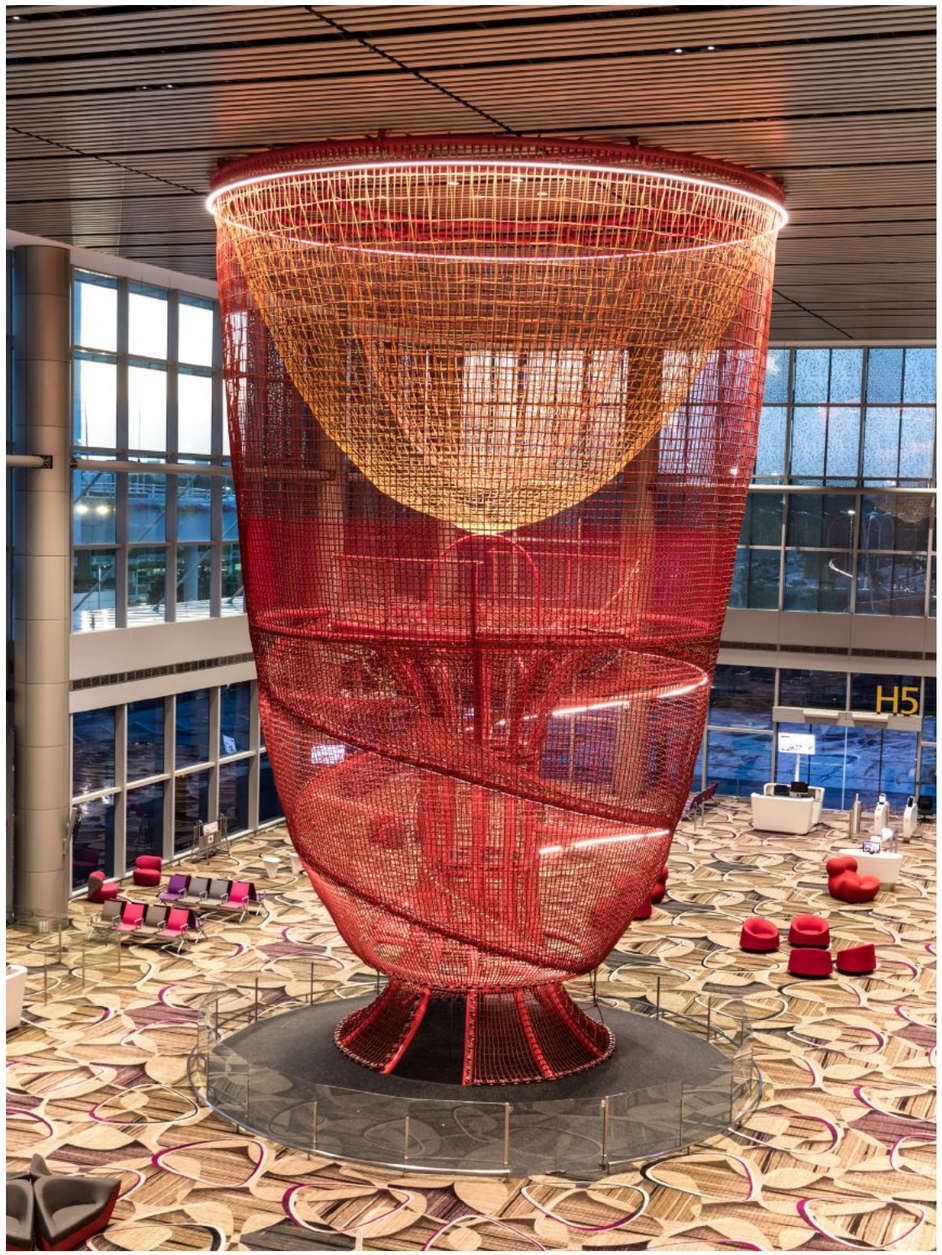
for electrical system configuration see luminaire data sheet at xal.com

THROUGH WIRE

TYPE	ORDER CODE
3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

Feucht Mode Innsbruck, AT –
by blocher partners with lighting design
by Hailight Lichtplanung, Andreas Haidegger

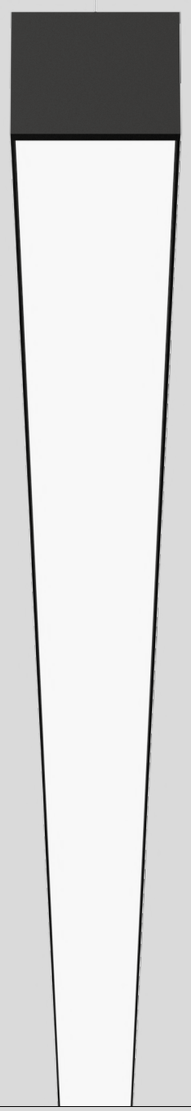
Airport Singapore T4 Terminal
Singapore, SG – by Snøhetta



Novo Nordisk Zurich, CH

WKO Vienna, AT –
by Architekturconsult with lighting
design by Hailight Lichtplanung,
Andreas Haidegger

back



MINO 100 system

ceiling / suspended

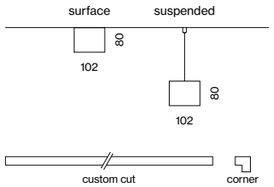
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; suspendido con cable; altura regulable sin herramientas; fijación en la lámpara por medio de clips elásticos; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
up to 3090 lm/m
up to 140 lm/W
L90 @ 50 000 h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colours

standard xal.com/colours

Light distributions

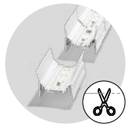
direct direct

DiiA® standards 251, 252, 253

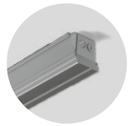
single luminaire (p. 552)

wallwasher inset (p. 944)

DIN EN 12464-1 UGR ≤ 19

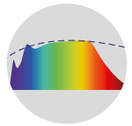


flexible inset



concrete install. housing (p. 946)

tunable white 2700 – 6500 K



CRI ≥ 98 XPECTRUM

Order options

LED TYPE

mid lumen	L
high lumen	M

COLOUR TEMPERATURE

3000 K (CRI ≥ 90)	0
4000 K (CRI ≥ 90)	1
3000 K (CRI ≥ 80)	5
4000 K (CRI ≥ 80)	6
tunable white 2700 – 6500 K*	

*DALI-2 DT8

CONTROL

non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8
special colours ➔ p. 992	X

LIGHT OPTIC COVER

opal high performance	H
microprismatic	Z
microprismatic (UGR ≤ 19)*	G
blind cover**	B

*UGR ≤ 19 only with mid lumen
**only for channel corner 90°

EMERGENCY LIGHT

1 h Accupack	N L 1
3 h Accupack	N L 3

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal microprism. Z -8 %, microprism. G -10%

MINO 100 ceiling / suspended

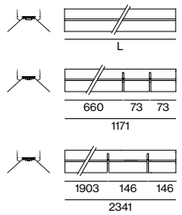
INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	034-0126
channel	1472	034-0156
channel	3000	034-0306
channel	custom	E85050
channel corner 90° + cover	200x200	034-1266

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	006-12122
linear	1470	006-12152
linear	2997	006-12302
linear	custom	E80650 ···· 0
blind cover	3000	006-1130
blind cover	custom	E80650 ···· B

CRI ≥ 90 · UGR ≤ 19 · cd/m² ≤ 3000 · DALI 1 ADDR. · 220-240 V · CB



LIGHT INSET 100

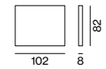
SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	007-86 2 7
13 / 20.6 W	871	007-86 3 7
15.3 / 27.5 W	1171	007-86 4 7
19.2 / 34 W	1463	007-86 5 7 ●
31 / 55 W	2341	007-86 8 7
38 / 68 W	2997	007-86 9 7
15.3 / 27.5 W flex	660-1171	007-86 F 7
31 / 55 W flex	1903-2341	007-86 G 7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1770 lm/m	132 lm/W
high performance	4000 K		1870 lm/m	140 lm/W
high lumen / opal	3000 K	24 W/m	2920 lm/m	123 lm/W
high performance	4000 K		3090 lm/m	130 lm/W

LIGHT INSET 100 tunable white 2700 – 6500 K

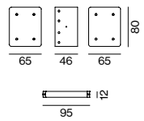
SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	007-8633D37
29 W	1171	007-8634D37
36 W	1463	007-8635D37
58 W	2341	007-8638D37

Accessories



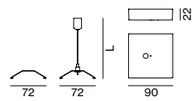
END CAPS

TYPE	ORDER CODE
end caps (pair)	034-1306



LINEAR CONNECTOR / THROUGH WIRE

TYPE	ORDER CODE
linear connector (1 piece)	005-40066
linear connector (10 pieces)	005-40066.10
opal cover linear connector	006-10000
through wire 3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
through wire 5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005



CEILING CLIP / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling clip	10	034-11836
cable suspension	1500	005-2132110
canopy / feeder cable 3 × 1.5 mm²	1500	005-221231
canopy / feeder cable 5 × 1.5 mm²	1500	005-221241
cable rail	1200	005-2491110

for electrical system configuration see luminaire data sheet at xal.com

Office Amazon Prague, CZ –
by HLW with lighting design by U1 lighting

Compound Semiconductor Applications Catapult
South Wales, UK –
by Monteith Scott

Adjust your profile system

BASO IP54 system

EN BASO IP54 is a powerful profile luminaire that has been specially adapted to demanding environmental conditions: from public outdoor areas to wet rooms. It has increased dust and insect protection (IP54). BASO IP54 is available as a single luminaire or as a system variant. It is easy to install and suitable for recessed or surface fitting as well as for wall or ceiling mounting. An opal cover delivers homogeneous basic illumination. The luminaire has a colour rendering of up to CRI ≥ 90 and can be selected with a dark grey or white housing and in two light colours (3000 K and 4000 K).

ES BASO IP54 es una potente luminaria de perfil que se ha adaptado especialmente a las exigentes condiciones ambientales: pudiendo utilizarse en zonas exteriores públicas o espacios con alta humedad, entre otras muchas posibilidades. Además, está dotada de una elevada protección contra polvo e insectos (IP54). BASO IP54 está disponible como luminaria individual y como sistema, es fácil de montar y es apta tanto para la colocación empotrada o en superficie como para el montaje en pared o techo. Su difusor opal garantiza un alumbrado general homogéneo. Además, la luminaria ofrece una excelente reproducción cromática con de hasta CRI ≥ 90 y puede elegirse en dos temperaturas de color (3000 K y 4000 K) y con carcasa blanca o en color gris oscuro.

Type

60

Mountings

trim
recessed

surface

Configurations

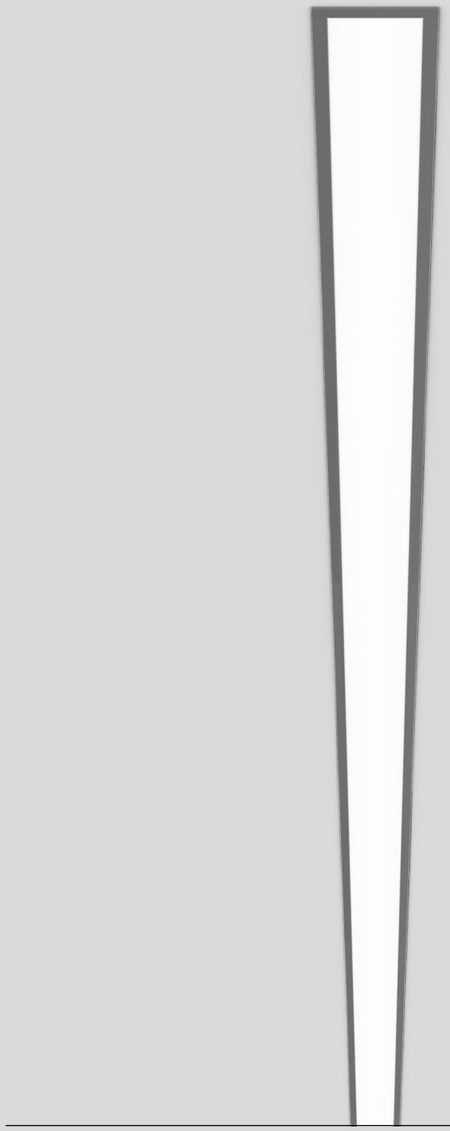
linear

corner

Light distribution

opal

back



BASO 60 IP54 system

recessed with trim

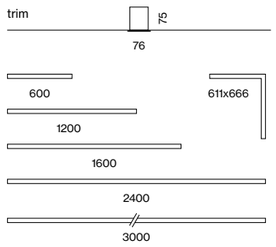
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; suitable for ceiling thickness of 8-20 mm; surface powder coated; suitable for wall or ceiling mounting; luminaire profile (end caps come pre-assembled) can be pre-mounted; remaining luminaire components mounted without tools; closed light insert made of PMMA, consisting of converter unit and circuit board unit; light inset with screwed-on, thus maintenance-friendly, transparent end cap in PMMA; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; IP67 socket connector system for easy and sealed electrical connection

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; para sistemas de iluminación continuos; apropiada para grosores de techo entre 8-20 mm; superficie con recubrimiento de pintura en polvo; apropiada para montaje en techo y paredes; perfil de luminaria premontable; resto de componentes luminosos montables sin herramienta; elemento de luz cerrado de PMMA, compuesto de convertidor y pletina; elemento de luz con tapa terminal transparente de metacrilato atornillada y de fácil mantenimiento; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; conector con casquillo IP67 para realizar una conexión eléctrica estanca

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 2340 lm/m
up to 125 lm/W
L90 @ 50 000 h
DALI-2
opal, IP54

Types

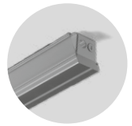


Colours

Light distribution

direct

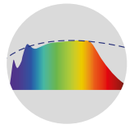
quick installation



concrete install. housing (p. 946)

single luminaire (p. 558)

dust & splash water protection (IP54)



CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● umbra grey RAL 7022	D

LIGHT OPTIC COVER

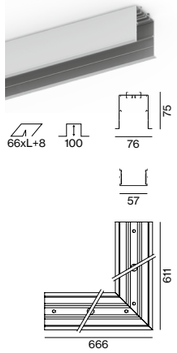
opal high performance

Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

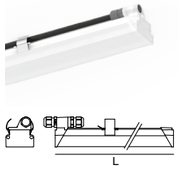


BASO 60 IP54 trim

INSTALLATION CHANNEL / CORNER 90° / BLIND COVER

TYPE	L (mm)	ORDER CODE
channel	600	845-340201
channel	1200	845-340401
channel	1600	845-340501
channel	2400	845-340801
channel	3000	845-340901
corner connector 90°	611x666	845-341121
blind cover	600	006-330601 B
blind cover	1200	006-331201 B
blind cover	1600	006-331601 B
blind cover	2400	006-332401 B
blind cover	3000	006-333001 B

order installation channel, light inset + mounting accessories separately



LIGHT INSET 60 IP54

RG0 IEC 62471 · DALI 1 ADDR. · 220-240V · IP54

SYSTEM POWER	L (mm)	ORDER CODE
11.2 W start/run	599	845-4042 ⁚ 30H
22.4 W start/run	1198	845-4044 ⁚ 30H
29.9 W start/run	1597	845-4045 ⁚ 30H
45 W start/run	2396	845-4048 ⁚ 30H
11.2 W end	599	845-4052 ⁚ 30H
22.4 W end	1198	845-4054 ⁚ 30H
29.9 W end	1597	845-4055 ⁚ 30H
45 W end	2396	845-4058 ⁚ 30H

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K	18.8 W/m	2210 lm/m	118 lm/W
	4000 K	18.8 W/m	2340 lm/m	124 lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	845-341001

MOUNTING BRACKET

TYPE	ORDER CODE
mounting bracket (1 piece)	045-3412010
mounting bracket (10 pieces)	045-3412010.10

LINEAR CONNECTOR

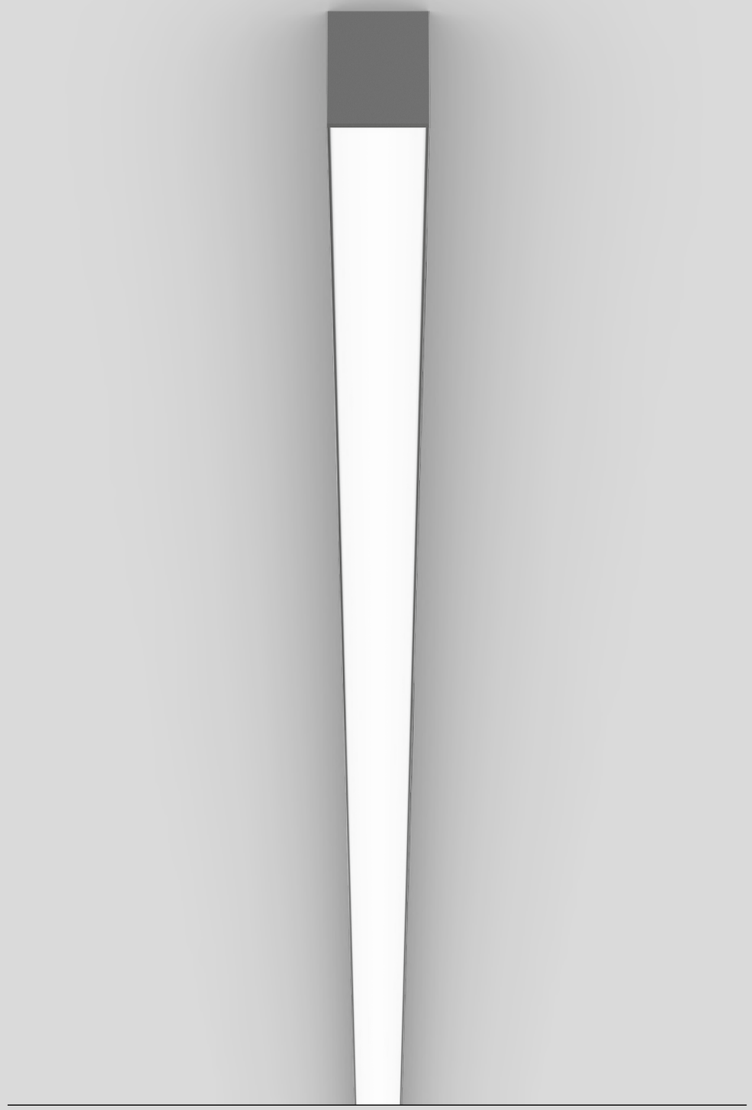
TYPE	ORDER CODE
linear connector (1 piece)	045-4011110
linear connector (10 pieces)	045-4011110.10

FEEDER CABLE / EXTENSION CABLE / CONNECTOR

TYPE	L (mm)	ORDER CODE
feeder cable 2×1.5 + 2×0.75 mm²	2000	845-4013240
feeder cable 2×1.5 + 2×0.75 mm²	4000	845-4013440
extension cable 2×1.5 + 2×0.75 mm²	1200	845-4014140
mini connector 4-pole	-	845-4013040

SNS Headquarters
Moscow, RU –
by ABD Architects with lighting
design by Light & Design

back



BASO 60 IP54 system

surface

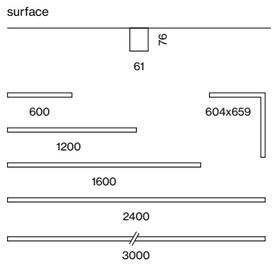
EN Luminaire housing from extruded aluminium profile, angular design; light-tight end caps in aluminium, no visible screws; surface powder coated; suitable for wall or ceiling mounting; luminaire profile (end caps come pre-assembled) can be pre-mounted; remaining luminaire components mounted without tools; closed light insert made of PMMA, consisting of converter unit and circuit board unit; light inset with screwed-on, thus maintenance-friendly, transparent end cap in PMMA; HPO (High Performance Opal) cover for uniform illumination; energy-efficient LEDs with very good colour rendering; IP67 socket connector system for easy and sealed electrical connection

ES Cuerpo de perfil de aluminio con diseño angular; tapa terminal de aluminio con cierre estanco, ningún tornillo visible; para sistemas de iluminación continuos; superficie con recubrimiento de pintura en polvo; apropiada para montaje en techo y paredes; perfil de luminaria premontable; resto de componentes luminosos montables sin herramienta; elemento de luz cerrado de PMMA, compuesto de convertidor y pletina; elemento de luz con tapa terminal transparente de metacrilato atornillada y de fácil mantenimiento; difusor opal de alta calidad que proporciona una iluminación uniforme; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; conector con casquillo IP67 para realizar una conexión eléctrica estanca

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 2340 lm/m
up to 125 lm/W
L90 @ 50 000 h
DALI-2
opal, IP54

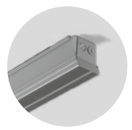
Types



Colours

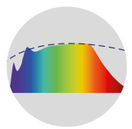
Light distribution

quick installation


concrete install. housing (p. 946)

single luminaire (p. 558)

dust & splash water protection (IP54)


CRI ≥ 98 XPECTRUM

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

DALI-2

MATERIAL COLOUR

○ traffic white RAL 9016	7
● umbra grey RAL 7022	D

LIGHT OPTIC COVER

opal high performance

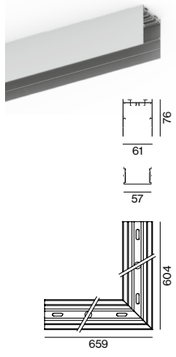
Options on request

COLOUR RENDERING INDEX

CRI ≥ 90

MOUNTING

concrete installation housing



BASO 60 IP54 surface

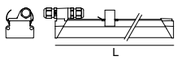
INSTALLATION CHANNEL / CORNER 90° / BLIND COVER

TYPE	L (mm)	ORDER CODE
channel	600	845-400201
channel	1200	845-400401
channel	1600	845-400501
channel	2400	845-400801
channel	3000	845-400901
corner connector 90°	604x659	845-401121
blind cover	600	006-330601 B
blind cover	1200	006-331201 B
blind cover	1600	006-331601 B
blind cover	2400	006-332401 B
blind cover	3000	006-333001 B

order installation channel, light inset + mounting accessories separately

LIGHT INSET 60 IP54

RG0 IEC 62471 · DALI 1 ADDR. · 220-240V · IP54



SYSTEM POWER	L (mm)	ORDER CODE
11.2 W start/run	599	845-4042 ⁚ 30H
22.4 W start/run	1198	845-4044 ⁚ 30H
29.9 W start/run	1597	845-4045 ⁚ 30H
45 W start/run	2396	845-4048 ⁚ 30H
11.2 W end	599	845-4052 ⁚ 30H
22.4 W end	1198	845-4054 ⁚ 30H
29.9 W end	1597	845-4055 ⁚ 30H
45 W end	2396	845-4058 ⁚ 30H

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K	18.8 W/m	2210 lm/m	118 lm/W
	4000 K	18.8 W/m	2340 lm/m	124 lm/W

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	845-401001

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	045-4011110
linear connector (10 pieces)	045-4011110.10

FEEDER CABLE / EXTENSION CABLE / CONNECTOR

TYPE	L (mm)	ORDER CODE
feeder cable 2×1.5+2×0.75 mm²	2000	845-4013240
feeder cable 2×1.5+2×0.75 mm²	4000	845-4013440
extension cable 2×1.5+2×0.75 mm²	1200	845-4014140
mini connector 4-pole	-	845-4013040

Sekundarschule Petermoos
Zurich, CH – by Itten+Brechbühl AG, Christina Hamminger including lighting design

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WALLWASHER

inset 60/100

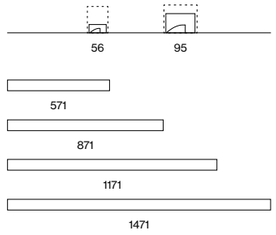
EN Lighting module with specially computed, asymmetrical high gloss reflector for homogeneous vertical lighting; lighting module in aluminium, powder coated, installation without tools

ES Elemento de luz con reflector asimétrico de alto brillo, especialmente calculado para la iluminación vertical homogénea; elemento de luz de aluminio con recubrimiento de polvo, puede montarse sin herramientas

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 96 lm/W
L80 @ 50 000 h
non DIM, DALI-2

Types



Colours

Light distribution

wall washer

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

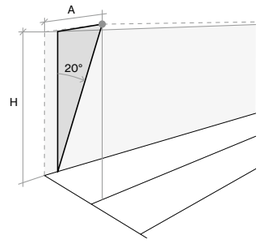
MATERIAL COLOUR

pure white RAL 9010	7
white aluminium RAL 9006	G
jet black RAL 9005	8

LIGHT OPTIC

wallwasher

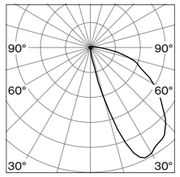
Planning information



MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200

Light distribution



asymmetric

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, reflector chrome

INSET 60 wallwasher

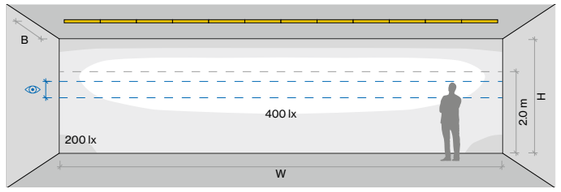
DALI 1 ADDR. | 220-240 V

LIGHT INSET only for recessed or surface mounting

SYSTEM POWER	L (mm)	ORDER CODE
10.6 W	571	007-9042
14 W	871	007-9043
18.7 W	1171	007-9044
28 W	1471	007-9045

Technical data

SYSTEM POWER	COLOUR TEMPERATURE	DELIVERED LUMENS	EFFICACY
17 W/m	3000 K	1960 lm/m	121 lm/W
	4000 K	2070 lm/m	128 lm/W



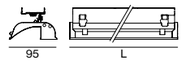
INSET 60 wallwasher, 18.7 W, 3000 K

CALCULATION SURFACE

Surface dimensions	10.8 × 2.8 m
Surface height	0 – 2.8 m
Eye level	1.35 m – 1.75 m

ROOM VALUES

Wall dimensions	H = 2.8 m | W = 10.8 m
Distance to wall	B = 1.3 m
Distance between luminaires	continuous
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8



INSET 100 wallwasher

DALI 1 ADDR. | 220-240 V

LIGHT INSET

SYSTEM POWER	L (mm)	ORDER CODE
20 W	571	007-9052
30 W	871	007-9053
40 W	1171	007-9054
51 W	1463	007-9055

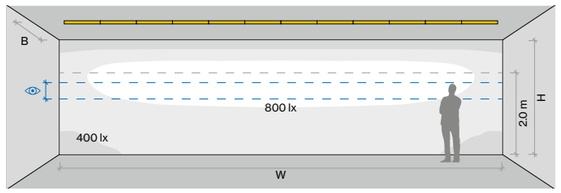
CABLE SUSPENSION

TYPE	L (mm)	ORDER CODE
inset 100 wallwasher	1500	005-2132310

installation channel is required for mounting

Technical data

SYSTEM POWER	COLOUR TEMPERATURE	DELIVERED LUMENS	EFFICACY
35 W/m	3000 K	2820 lm/m	82 lm/W
	4000 K	2990 lm/m	87 lm/W



INSET 100 wallwasher, 30 W, 3000 K

CALCULATION SURFACE

Surface dimensions	10.8 × 2.8 m
Surface height	0 – 2.8 m
Eye level	1.35 m – 1.75 m

ROOM VALUES

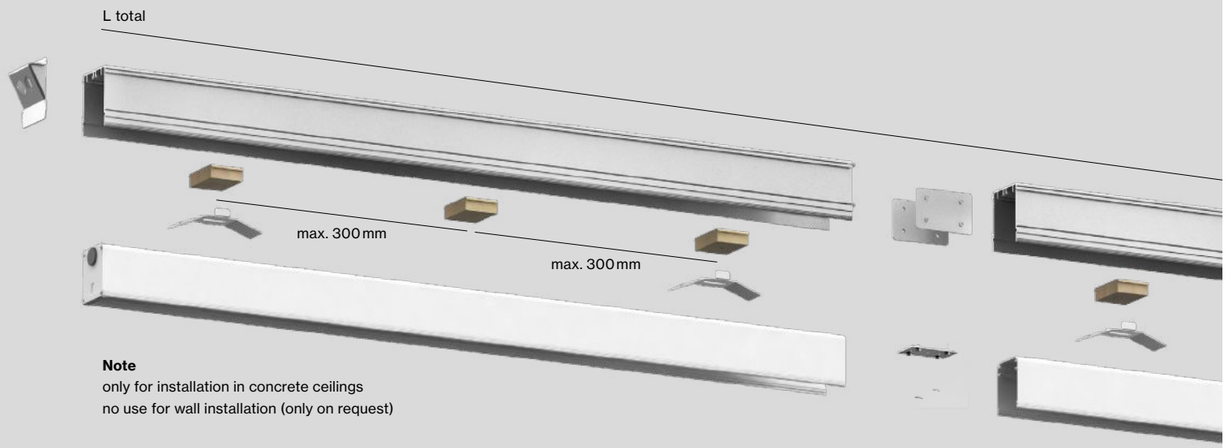
Wall dimensions	H = 2.8 m | W = 10.8 m
Distance to wall	B = 1.3 m
Distance between luminaires	continuous
Reflection factor	0.7 | 0.5 | 0.2
Maintenance factor	0.8

back

Order options

NUMBER OF PIECES

2 pieces	2
3 pieces	3



Note
only for installation in concrete ceilings
no use for wall installation (only on request)

CONCRETE installation housing

EN Concrete casting made of aluminium profile, designed for continuous lighting systems

ES Carcasa empotrable en hormigón de perfil aluminio, diseñada para sistemas iluminación continuos

FRAME 40 / MINO 40

HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
FRAME 40 trim	3010	005-41356
MINO 40	3010	005-41356

MOUNTING SET

TYPE	ORDER CODE
FRAME 40 trim	035-0602
MINO 40	034-0602

up to 900 mm: 2 pieces / up to 1500 mm: 3 pieces / up to 3000 mm: 2 × 2 pieces

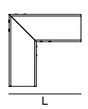
END CAPS

TYPE	ORDER CODE
end caps (pair)	005-41236

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-41166
linear connector (10 pieces)	005-41166.10

CORNER CONNECTOR 90°



TYPE	L (mm)	ORDER CODE
FRAME 40 trim	140	035-06016
MINO 40	140	035-06016

Order options

NUMBER OF PIECES

2 pieces	2
3 pieces	3

FRAME 60 / MINIMAL 60 / MINO 60 / BASO 60

HOUSING FOR CONCRETE INSTALLATION

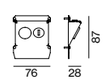
TYPE	L (mm)	ORDER CODE
FRAME 60 trim	3000	005-41346
BASO 60 IP54 trim	3000	005-41346
MINIMAL 60 trimless	3000	005-41346
MINO 60 ceiling	3000	005-41446
BASO 60 IP54 surface	3000	005-41446

MOUNTING SET

TYPE	ORDER CODE
FRAME 60 trim	035-0600
BASO 60 IP54 trim	035-0600
MINIMAL 60 trimless	036-0400
MINO 60 ceiling	034-0400
BASO 60 IP54 surface	034-0400

up to 900 mm: 2 pieces / up to 1500 mm: 3 pieces / up to 3000 mm: 2 × 2 pieces

END CAPS

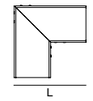


TYPE	ORDER CODE
end caps (pair)	005-41246

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-41166
linear connector (10 pieces)	005-41166.10

CORNER CONNECTOR 90°



TYPE	L (mm)	ORDER CODE
FRAME 60 trim	142	035-04016
BASO 60 IP54 trim	142	035-04016
MINIMAL 60 trimless	146	036-04016
MINO 60 ceiling	157	034-04016
BASO 60 IP54 surface	157	034-04016

FRAME 100 / MINIMAL 100 / MINO 100

HOUSING FOR CONCRETE INSTALLATION

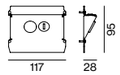
TYPE	L (mm)	ORDER CODE
FRAME 100 trim	3000	005-41366
MINIMAL 100 trimless	3000	005-41366
MINO 100 ceiling	3000	005-41466

MOUNTING SET

TYPE	ORDER CODE
FRAME 100 trim	035-0600
MINIMAL 100 trimless	036-0500
MINO 100 ceiling	034-0400

up to 900 mm: 2 pieces / up to 1500 mm: 3 pieces / up to 3000 mm: 2x2 pieces

END CAPS

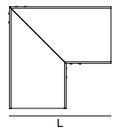


TYPE	ORDER CODE
end caps (pair)	005-41266

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-41166
linear connector (10 pieces)	005-41166.10

CORNER CONNECTOR 90°



TYPE	L (mm)	ORDER CODE
FRAME 100 trim	202	035-05016
MINIMAL 100 trimless	207	036-05016
MINO 100 ceiling	207	034-05016

Perfect allrounder

TUBO system

EN As a system luminaire, TUBO scores as a uniform and pleasant lighting system brought to life by linear connecting elements. The luminaire is available for wall and ceiling mounting, as well as in a suspended pendant version. Thanks to the opal cover, the TUBO System luminaire provides uniform ambient lighting and a pleasant atmosphere in entrance areas, corridors, and public spaces. The characteristic beam angle of up to 340° brightens the ceiling slightly while the available light colours 3000 K and 4000 K boost this positive room atmosphere.

ES En su variante modular, TUBO permite obtener un sistema de iluminación agradable y uniforme mediante la unión de elementos de conexión lineales. La luminaria también está disponible para el montaje en pared o techo y como variante de suspensión. Su difusor opal hace que la luminaria modular TUBO pueda ofrecer un alumbrado general homogéneo y un ambiente agradable en áreas de entrada, pasillos y zonas públicas. Su ángulo de proyección característico de hasta 340° garantiza una suave iluminación del techo, y las temperaturas de color de 3000 K y 4000 K disponibles contribuyen a la obtención de una atmósfera interior atractiva.

Types

60 100

Mountings

surface suspended

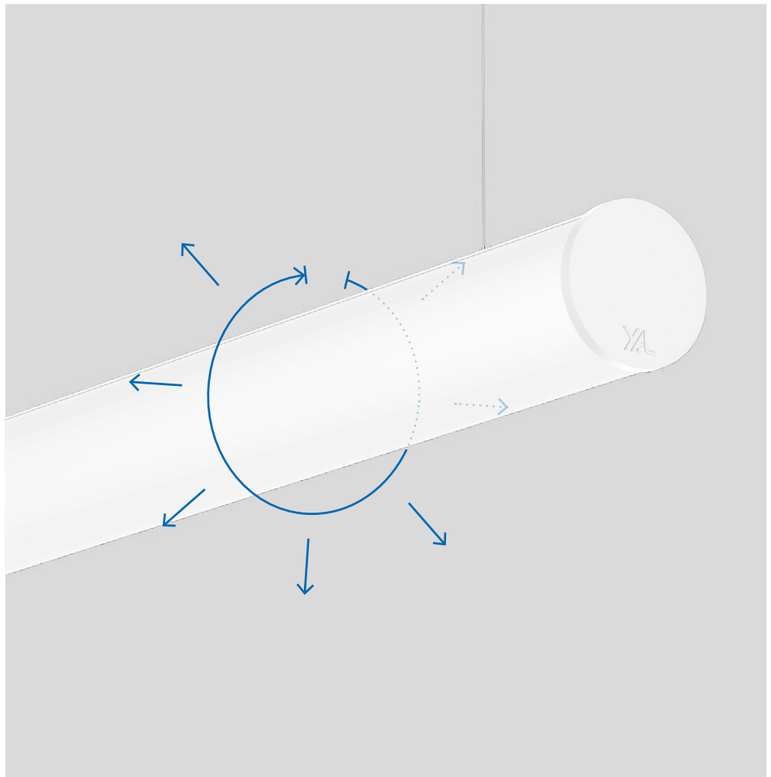
Light distribution

opal

340° light distribution

EN With its 340° beam pattern and opal cover, TUBO System delivers homogeneous illumination as well as slight ceiling brightening. This makes the system luminaire perfect for places where pleasant ambient lighting is desired, such as reception areas, corridors, or foyers.

ES Con su ángulo de proyección de 340° y su difusor opal, TUBO System ofrece un alumbrado homogéneo unido a una iluminación ligera del techo. Por eso, esta luminaria modular es perfecta para lugares en los que se desea contar con una iluminación general agradable, como zonas de recepción, pasillos y vestíbulos.



Seamless light channel

EN TUBO as a continuous lighting system: Connecting elements can turn individual TUBO luminaires into a seamless channel. This creates a visually uniform lighting system for many different applications – whether as a corridor luminaire, effect luminaire, or visual guidance system.

ES TUBO como sistema de iluminación continuo: los elementos de unión permiten convertir las distintas luminarias TUBO en un sistema de luz ininterrumpido. Esto crea un sistema visualmente uniforme para tipos de uso muy diversos, ya sea como luminaria de pasillo, luz de efecto o sistema de direccionamiento visual.

Mounting options

EN The TUBO System can be installed as a surface-mounted version in a continuous lighting system for walls and ceilings, or as a suspended pendant luminaire on the ceiling.

ES TUBO System puede instalarse como sistema de iluminación continuo en su variante de superficie para el montaje en techos o paredes o como luminaria pendular suspendida en el techo.

Easy mounting

EN TUBO 60 system luminaires are electrically connected by a simple plug-in connection. This makes the installation of a complex lighting system simple, quick, and straightforward.

ES Las luminarias modulares TUBO 60 se conectan eléctricamente con una simple conexión enchufable. Con ello, el montaje de un sistema de iluminación completo puede realizarse de un modo muy sencillo, rápido y sin complicaciones.

back

DESIGN AWARD 2022

TUBO 60 system

surface / suspended

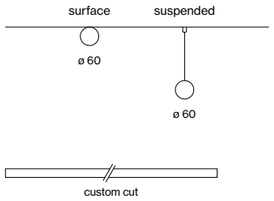
EN Supporting profile in extruded aluminium; end cap in aluminium; for continuous lighting systems; surface powder coated; surface mounted or suspended luminaire with cable suspension; height adjustment without tools; with transparent feeder cable; electrical connection of the luminaires via plug / socket system; no separate wiring required; light control via high-quality lens system for maximum, homogeneous illumination; completely homogeneously illuminated, cylindrical HPO (High Performance Opal) cover; energy-efficient LEDs with very good colour rendering

ES Perfil soporte fabricado en aluminio; tapas finales de aluminio; para sistemas de iluminación continuos; superficie con recubrimiento de pintura en polvo; lámpara superpuesta o lámpara colgante con cable; altura regulable sin herramientas; incl. cable de alimentación transparente; unión eléctrica de las luminarias con conexión macho / hembra; sin cableado adicional; direccionam. de luz con óptica de lente alta calid. para alumbr. techo máx. y homog.; difusor HPO (High Performance Opal) de alumbrado totalmente homogéneo; LEDS de alta eficiencia que proporcionan una alta reproducción cromática

Quickinfo

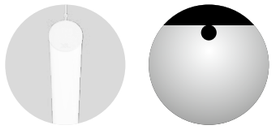
3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 3160 lm / m
up to 114 lm / W
L90 @ 50 000 h
non DIM, DALI-2
opal

Types



Colour

Light distributions



single luminaire (p. 572)

uniform illumination

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

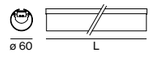
MATERIAL COLOUR

○ pure white RAL 9010	

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

TUBO 60 surface / suspended

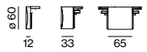
RG 0 IEC 62471 · DALI 1 ADDR. · 220-240 V · X-PERT · X-PERT



INSTALLATION CHANNEL + LIGHT INSET + LIGHT OPTIC COVER

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
16.5 W	3000 K	1780 lm	585	058-3022 :: ◇ 7 O
	4000 K	1880 lm		
33 W	3000 K	3560 lm	1185	058-3024 :: ◇ 7 O
	4000 K	3760 lm		
66 W	3000 K	7110 lm	2385	058-3028 :: ◇ 7 O
	4000 K	7530 lm		
82 W	3000 K	8890 lm	2985	058-3029 :: ◇ 7 O
	4000 K	9410 lm		

Accessories surface



END CAP / POWER FEEDER

TYPE	ORDER CODE
end cap	058-3010017
end cap power feeder	058-3010217
middle power feeder	058-3011217

LINEAR CONNECTOR

TYPE	ORDER CODE
mechanical	058-3013117
mechanical & electrical	058-3013127

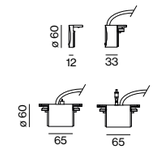
incl. opal cover connector

CEILING MOUNTING SET

TYPE	L (mm)	ORDER CODE
ceiling mounting set	75	058-3014117

Accessories suspended

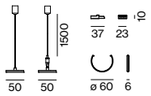
END CAP / POWER FEEDER incl. feeder cable



TYPE	ORDER CODE
end cap	058-3010017
end cap power feeder 5 × 1.5 mm²	058-3010417
middle power feeder* 5 × 1.5 mm²	058-3011317
middle power feeder angular** 5 × 1.5 mm²	058-3011327

*incl. cable suspension 1500 mm
**incl. cable suspension angular max. 60° 1500 mm

LINEAR CONNECTOR



TYPE	ORDER CODE
mechanical*	058-3013217
mechanical angular**	058-3013317
mechanical & electrical*	058-3013227
mechanical & electrical angular**	058-3013327

incl. opal cover connector
*incl. cable suspension 1500 mm
**incl. cable suspension angular max. 60° 1500 mm

CABLE SUSPENSION

TYPE	L (mm)	ORDER CODE
cable suspension	1500	058-3014210
cable suspension angular max. 60°	1500	058-3014310

CANOPY

TYPE	Ø-H (mm)	ORDER CODE
non DIM / DALI-2	90·22	005-2600037

for electrical system configuration see luminaire data sheet at xal.com

back

TUBO 100 system

surface / suspended

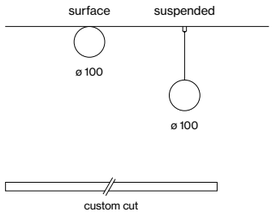
EN Supporting profile in extruded aluminium; end cap in aluminium, no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; surface mounted or suspended luminaire with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; freely positionable; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; cylindrical cover made of satinised PMMA for homogeneous illumination; with 340° light emission and light ceiling illumination; energy-eff. LEDs – very good colour rendering

ES Perfil soporte fabricado en aluminio; tapas finales de aluminio sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; lámpara superpuesta o lámpara colgante con cable; altura regulable sin herramientas; fijación en las lámparas por medio de enganches elásticos; ajustable de una manera sencilla; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; cubierta cilíndrica de PMMA satinada para iluminación homogénea; con 340° de emisión e iluminación de techo; LED energét. efic. – excelente reprod. crom.

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
up to 4300 lm / m
up to 138 lm / W
L90 @ 50 000 h
non DIM, DALI-2
opal

Types



Colour

Light distributions

direct direct

single luminaire (p. 576)

uniform illumination

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6

CONTROL

non DIM	1
DALI-2	3

MATERIAL COLOUR

○ pure white RAL 9010

Options on request

CONTROL

Casambi

EMERGENCY LIGHT

1 h Accupack
3 h Accupack

only available for length 1463 mm

LUMINOUS FLUX value calculated for CRI ≥ 80, colour white, cover opal

TUBO 100 ceiling / suspended

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
installation channel	582	029-00667
installation channel	882	029-00967
installation channel	1182	029-01267
installation channel	1482	029-01567
installation channel	2364	029-02567
installation channel	3000	029-03067
installation channel	custom	E85950 · · · · 7

LIGHT OPTIC COVER OPAL HIGH PERFORMANCE

TYPE	L (mm)	ORDER CODE
light optic cover	577	006-520570O
light optic cover	877	006-520870O
light optic cover	1177	006-521170O
light optic cover	1477	006-521470O
light optic cover	2359	006-522340O
light optic cover	2995	006-523000O
light optic cover	custom	E85910 · · · · 0O

RG0 IEC 62471 · 1 ADDR. · 220-240V · CB · X-PERT · X-PERT

LIGHT INSET

SYSTEM POWER	L (mm)	ORDER CODE
18.3 W	571	029-8832 ⁘ ⇳ 7
27.5 W	871	029-8833 ⁘ ⇳ 7
37 W	1171	029-8834 ⁘ ⇳ 7
46 W	1463	029-8835 ⁘ ⇳ 7
73 W	2341	029-8838 ⁘ ⇳ 7

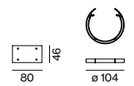
COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal high performance	3000 K 4000 K	31 W/m	4060 lm/m 4300 lm/m	131 lm/W 138 lm/W

Accessories

END CAPS

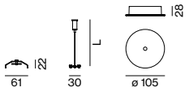
TYPE	ORDER CODE
end caps (pair)	029-14067

LINEAR CONNECTOR



TYPE	ORDER CODE
linear connector (1 piece)	029-12027
linear connector (10 pieces)	029-12027.10
opal cover linear connector	029-12927
anti-slip protection (per cover)	029-00347

MOUNTING

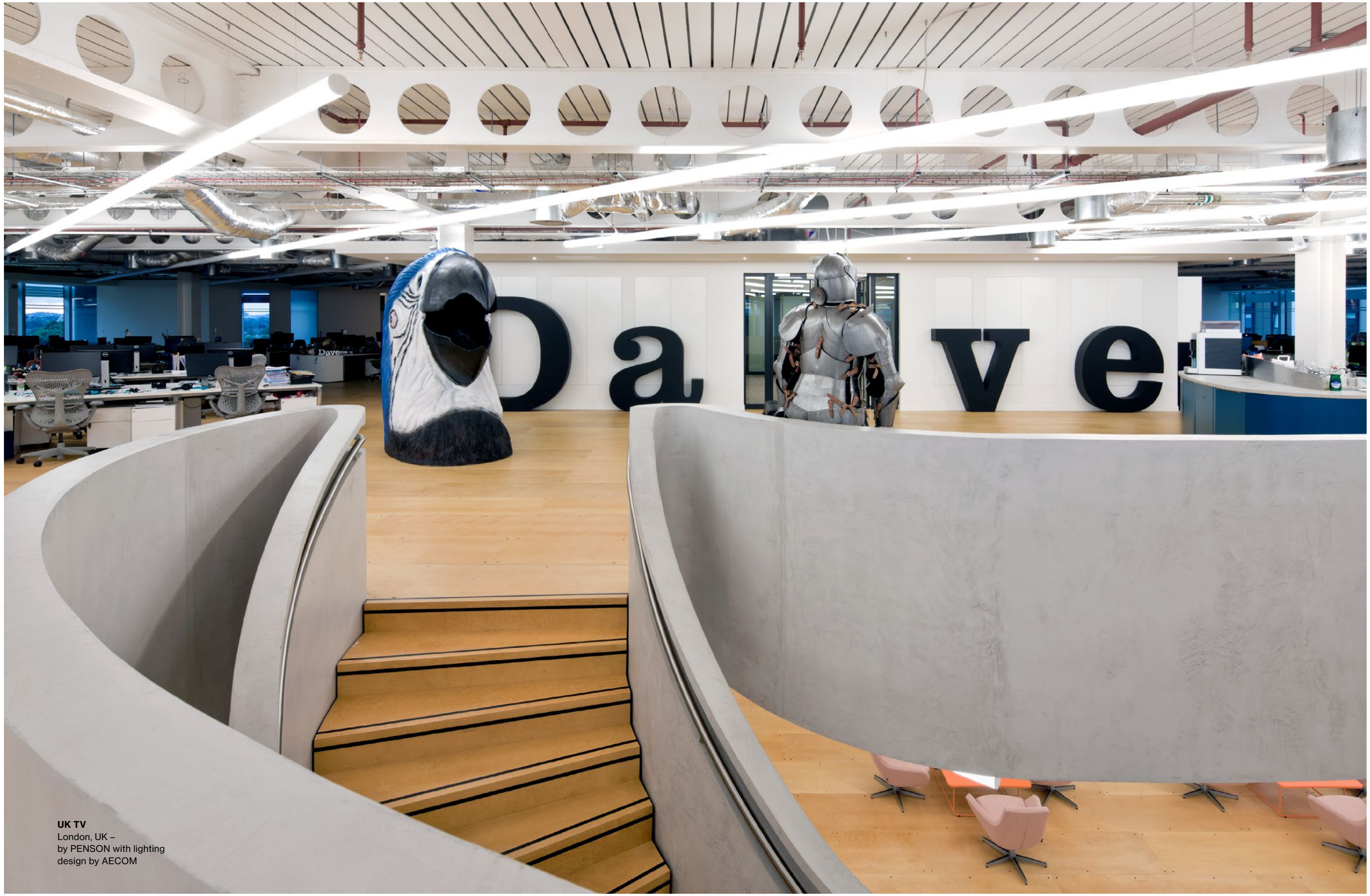


TYPE	L (mm)	ORDER CODE
ceiling mounting set	40	029-00446
cable suspension	1500	005-2142110
angular cable susp. (max. 60°)	1500	005-2142210
canopy / feeder cable 3 × 1.5 mm²	1500	005-2222317
canopy / feeder cable 5 × 1.5 mm²	1500	005-2222417
cable rail	1200	005-2491110

for electrical system configuration see luminaire data sheet at xal.com

THROUGH WIRE

TYPE	ORDER CODE
3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005



UK TV
London, UK –
by PENSON with lighting
design by AECOM

Define the horizon

LINEA system

EN Elegant room accentuation, highest performance. LINEA is a reduced, convertible luminaire for stylish wall, floor, and ceiling illumination. The extraordinarily narrow wall profile is completed by various lighting insets. Different beam patterns can be easily combined. For example, an opal cover for homogeneous illumination and asymmetrical illumination for brightening floors or ceilings. Spotlights can be chosen for elegant accentuation or as reading lights. LINEA is available as an individual decorative luminaire in different lengths, including perpendicular corner elements. Choose between white and black for the profile. The inserts optionally have a colour rendering of up to CRI ≥ 98. In addition, the light inserts themselves can be selected in the light colours 2700 K, 3000 K, 4000 K, or as a Tunable White option.

ES Acentuación elegante del espacio con el máximo rendimiento: LINEA system es una luminaria minimalista pero versátil, apta para la iluminación refinada de paredes, suelos y techos. El perfil extraordinariamente estrecho se completa con diversos elementos de luz. La fijación a la cara superior y/o inferior del perfil se realiza magnéticamente, por lo que los elementos pueden intercambiarse con toda facilidad. Es posible combinar entre sí distintos modos de proyección, por ejemplo, utilizando un difusor opal para un alumbrado homogéneo, un Wall Grazer para la acentuación de paredes o la iluminación asimétrica para el tamizado de suelos o techos. LINEA system se ofrece en tres longitudes como luminaria individual decorativa o en una versión de sistema con elementos de esquina rectangulares. Los perfiles están disponibles en color blanco, negro y colores especiales. Por su parte, los aparatos pueden elegirse en temperaturas de color de 2700 K, 3000 K o 4000 K y sustituirse en cualquier momento en función de las necesidades.

Mounting

wall

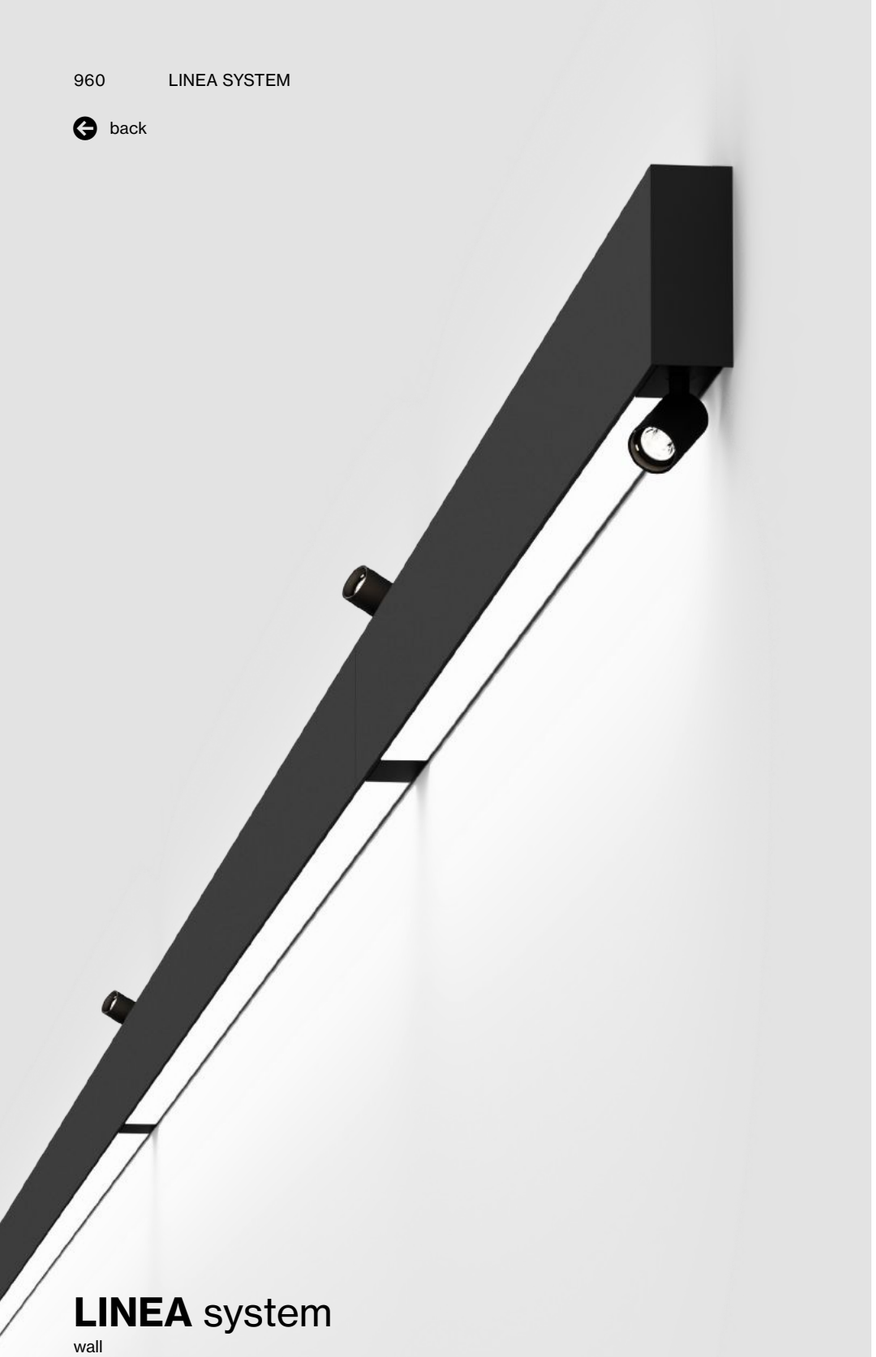
Configurations

linear corner

Light distributions

opal opal asymmetric opal spot

back



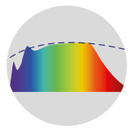
LINEA system

wall

EN Luminaire housing and front cover from extruded aluminium profile, angular version; no visible screws; designed for continuous lighting systems, 90° angle connectors for flexible system design; surface powder coated; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/indirect light distribution; HPO (High Performance Opal) cover for uniform illumination; or with specially computed, asymmetrical lens for homogeneous lighting intensity (installation optionally for floor or ceiling illumination); energy-efficient LEDs with very good colour rendering; optionally JUST 26 spotlight module can be installed

ES Cuerpo de lámpara y cubierta frontal de perfil extrusionado de aluminio, versión poligonal; sin tornillos visibles; diseñado para sistemas de iluminación continuos, conectores angulares de 90° para el montaje flexible del sistema; superficie con recubrimiento de pintura en polvo; apropiada para montaje pared; iluminación homogénea de la pared o bien del techo mediante distribución uniforme directa/indirecta de la luz; difusor opal de alta calidad que proporciona una iluminación uniforme; o con lente asimétrica de cálculo especial para intensidades luminosas homogéneas (montaje para la iluminación del suelo o del techo); LEDS de alta eficiencia que proporcionan una alta reproducción cromática; compatible con inserto de foco JUST 26

single luminaire
(p. 634)

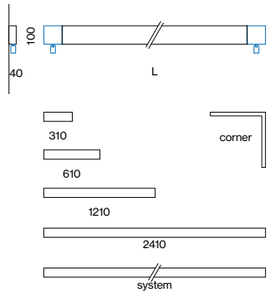


CRI ≥ 98
XPECTRUM

Quickinfo

3000 K, 4000 K, TW
CRI ≥ 90, 3 SDCM
up to 117 m/W
L90 @ 50 000 h
non DIM, DALI-2

Types



Colours

Light distributions

asym./ opal
opal/ opal
opal/ spot

Order options

COLOUR TEMPERATURE

3000 K	5
4000 K	6
tunable white 2700 – 5000 K*	D

*available from L 1210 mm | DALI-2 DT8

CONTROL

non DIM	1
non DIM / switch (only spotlights)	2
DALI-2	3
DALI-2 / switch (only spotlights)	4

MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

SPOTLIGHT ALIGNMENT

left	B
right	C

spotlight(s) only with 3000 K

Options on request

COLOUR RENDERING INDEX

CRI ≥ 98 XPECTRUM

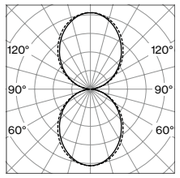
COLOUR TEMPERATURE

2700 K

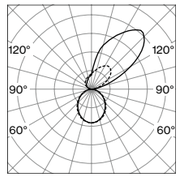
MATERIAL COLOUR

special colours

Light distributions



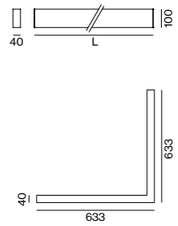
↧ opal high performance
↥ opal high performance



↧ opal high performance
↥ asymmetric

LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, cover opal

LINEA system wall



CRI ≥ 90 | DALI 1 ADDR. | 220-240V

↧ OPAL HIGH PERFORMANCE / ↥ OPAL HIGH PERFORMANCE

SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
14.7 W	3000 K	↧ 648 / ↥ 648 lm	310	058-6141 ⁝⁝ ◪ AH
	4000 K	↧ 715 / ↥ 715 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	610	058-6142 ⁝⁝ ◪ AH
	4000 K	↧ 1430 / ↥ 1430 lm		
59 W	3000 K	↧ 2590 / ↥ 2590 lm	1210	058-6144 ⁝⁝ ◪ AH
	4000 K	↧ 2860 / ↥ 2860 lm		
111 W	3000 K	↧ 5190 / ↥ 5190 lm	2410	058-6148 ⁝⁝ ◪ AH
	4000 K	↧ 5720 / ↥ 5720 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	633x633	058-6111 ⁝⁝ ◪ AH
inner corner	4000 K	↧ 1430 / ↥ 1430 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	633x633	058-6112 ⁝⁝ ◪ AH
outer corner	4000 K	↧ 1430 / ↥ 1430 lm		

CRI ≥ 90 | DALI 1 ADDR. | 220-240V

↧ OPAL HIGH PERFORMANCE / ↥ ASYMMETRIC

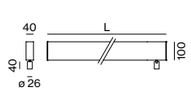
SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
14.7 W	3000 K	↧ 648 / ↥ 821 lm	310	058-6141 ⁝⁝ ◪ AA
	4000 K	↧ 715 / ↥ 906 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1640 lm	610	058-6142 ⁝⁝ ◪ AA
	4000 K	↧ 1430 / ↥ 1810 lm		
59 W	3000 K	↧ 2590 / ↥ 3280 lm	1210	058-6144 ⁝⁝ ◪ AA
	4000 K	↧ 2860 / ↥ 3620 lm		
111 W	3000 K	↧ 5190 / ↥ 6570 lm	2410	058-6148 ⁝⁝ ◪ AA
	4000 K	↧ 5720 / ↥ 7250 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	633x633	058-6111 ⁝⁝ ◪ AA
inner corner	4000 K	↧ 1430 / ↥ 1430 lm		
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	633x633	058-6112 ⁝⁝ ◪ AA
outer corner	4000 K	↧ 1430 / ↥ 1430 lm		

CRI ≥ 90 | DALI 2 ADDR. | 220-240V

↧↥ OPAL HIGH PERFORMANCE / 1 SPOTLIGHT

SYS. POWER	COLOUR TEMP.	LUMINOUS FLUX	L (mm)	ORDER CODE
29.3 W	3000 K	↧ 1300 / ↥ 1300 lm	710	058-6142 ⁝⁝ ◪ ▼ H
	4000 K	↧ 1430 / ↥ 1430 lm		
59 W	3000 K	↧ 2590 / ↥ 2590 lm	1310	058-6144 ⁝⁝ ◪ ▼ H
	4000 K	↧ 2860 / ↥ 2860 lm		
111 W	3000 K	↧ 5190 / ↥ 5190 lm	2510	058-6148 ⁝⁝ ◪ ▼ H
	4000 K	↧ 5720 / ↥ 5720 lm		

spotlight alignment left or right



Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	050-254010 ◪

CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	050-2551100
linear connector (10 pieces)	050-2551100.10

THROUGH WIRE

TYPE	ORDER CODE
3 × 1.5 mm² (non DIM, 10 pieces)	004-90003
5 × 1.5 mm² (DALI-2, 10 pieces)	004-90005

Bedroom
Visualisation

SNS Headquarters
Moscow, RU –
by ABD Architects with lighting
design by Light & Design

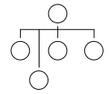
Controls

Controls

DALI-2 control

970

Professional building management



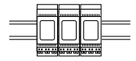
976

Casambi

CASAMBI

NEW 978

DIN rail components



NEW 980

Know-How

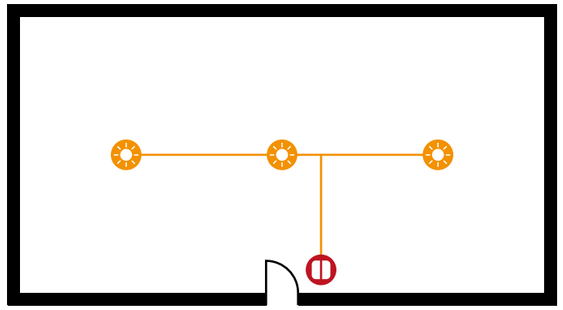
982

back

Controller Comparison

Controller	Push-Dim	Last Light Level Memory	Grouping	Scenes	Daylight Harvesting	Time Functions	Tunable White (DT8)	Dynamic Scenes Colour Gradients	Circadian CCT Curves	Touchpanel Tablet / Smartphone	Visualization	Plug and Play	BMS Connectivity (KNX, Modbus, BACnet)	Ethernet	Cloud Connectivity	Customizable Programming	Extendable
Basic Room Controller	•	•					•			•		•					
Advanced DALI-2 Controller	•	•	•	•	•		•										
Professional Building Automation	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
Casambi	•	•	•	•	•	•	•	•	•	•		•			•		•

Basic Room Controller (p. 973)



EN

Applications:
Conference rooms
Private living quarters
Classrooms

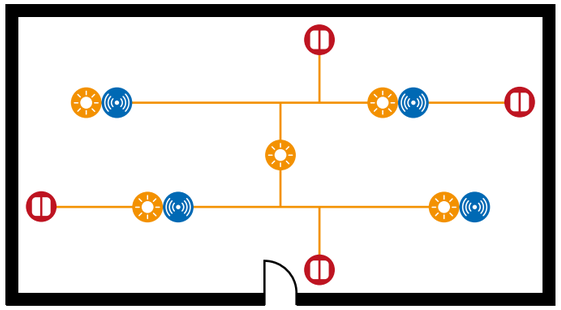
Features:
Operation via standard button and/or rotary dimmer
Intuitive manual dimming, switching
Colour temperature adjustment (DT8)
Broadcast signals to all luminaires
Basic plug-and-play functionality without start-up
Integrated DALI power supply
Lighting control with app via Bluetooth

ES

Ámbito de aplicación:
Salas de reuniones
Espacios residenciales privados
Aulas de enseñanza

Características:
Manejo mediante pulsadores estándar o atenuadores giratorios
Atenuación y conmutación manual e intuitiva
Ajuste de la temperatura de color (DT8)
Señales transmitidas a todas las luminarias
Funciones básicas “Plug and Play” sin necesidad de puesta en servicio
Suministro de tensión DALI integrado
Control de la iluminación por app a través de Bluetooth

Advanced DALI-2 Controller (p. 973)



EN

Applications:
Offices
Classrooms
Shop lighting

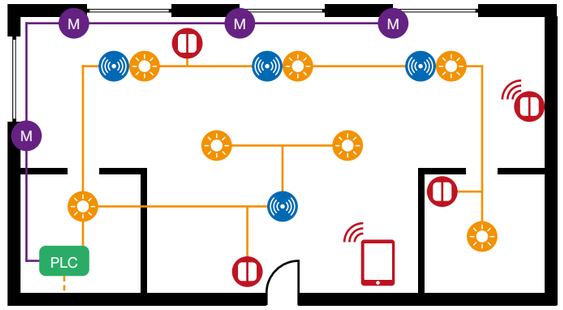
Features:
Operation via standard button
Intuitive manual dimming, switching
Create groups and scenes
Colour temperature adjustment (DT8)
Upgradeable with DALI-2 sensors
Full-featured DALI-2 application controller
Power supply via the DALI Bus
4 independent potential-free inputs for standard buttons
Start-up with app via Bluetooth

ES

Ámbito de aplicación:
Oficinas
Aulas en centros educativos
Iluminación de tiendas

Características:
Manejo mediante pulsadores estándar
Atenuación y conmutación manual e intuitiva
Creación de grupos y escenas
Ajuste de la temperatura de color (DT8)
Posibilidad de ampliación con sensores DALI-2
Auténtico DALI-2 Application Controller
Suministro de tensión por bus DALI
4 entradas independientes libres de potencial para pulsadores estándar
Puesta en funcionamiento por app a través de Bluetooth

Professional Building Automation (p. 977)



EN

Applications:
Office buildings
Public buildings
Sports halls and schools
Shop lighting

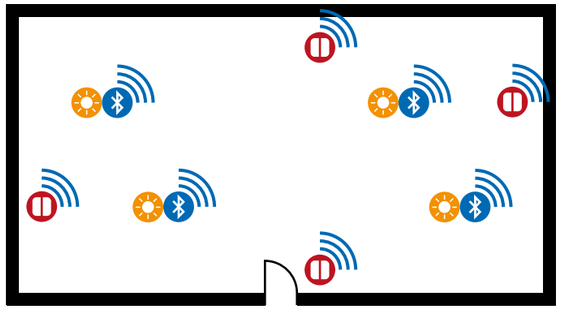
Features:
Operation via standard button
Intuitive manual dimming, switching
Create groups and scenes
Colour temperature adjustment (DT8)
Upgradeable with DALI-2 sensors
Full-featured DALI-2 application controller
Up to 20 DALI-2 universes
Connection to building management system
Interfaces: KNX, Modbus, BACnet, and many more.
User-specific visualizations
Flexible upgradeability

ES

Ámbito de aplicación:
Edificios de oficinas
Edificios públicos
Escuelas e instalaciones deportivas
Iluminación de tiendas

Características:
Manejo mediante pulsadores estándar
Atenuación y conmutación manual e intuitiva
Creación de grupos y escenas
Ajuste de la temperatura de color (DT8)
Posibilidad de ampliación con sensores DALI-2
Auténtico DALI-2 Application Controller
Hasta 20 universos DALI-2
Integración en la tecnología de control del edificio
Interfaces: KNX, Modbus, BACnet y muchas más
Visualizaciones personalizadas
Ampliable con total flexibilidad

Casambi (p. 979)



EN

Applications:
Small offices
Shop lighting
Meeting rooms
Private living quarters

Features:
Operation via standard button
Intuitive manual dimming, switching
Create groups and scenes
Colour temperature adjustment (DT8)
Upgradable with Casambi and DALI-2 Sensors
Power supply integrated or via DALI bus
Up to 128 nodes in one Network
Start-up with app via Bluetooth, no gateway required

ES

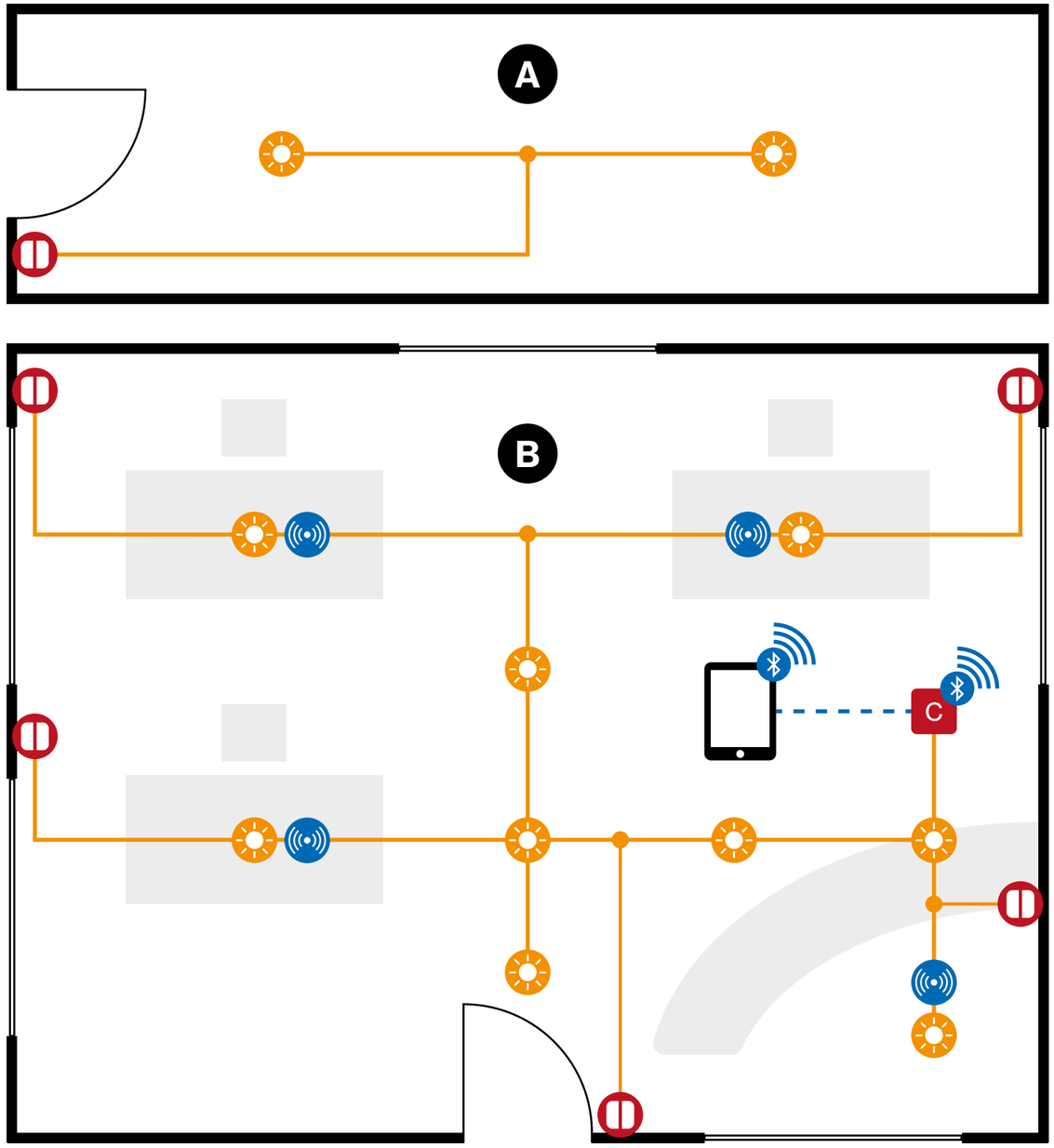
Ámbito de aplicación:
Iluminación de la oficina
Iluminación de la tienda
Salas de reuniones
Zonas de estar privadas

Características:
Manejo mediante pulsadores estándar
Regulación y conmutación manual intuitiva
Creación de grupos y escenas
Ajuste de la temperatura del color (DT8)
Ampliación con sensores Casambi y DALI-2
Alimentación integrada o mediante bus DALI
Hasta 128 nodos en la misma red
Puesta en marcha con la aplicación a través de Bluetooth

For further questions please contact **controls@xal.com**

back

DALI-2 Connection Examples



Wall switch DALI

Application controller DALI

Light DALI

Sensor DALI

Commissioning device

A Basic Room Controller

EN Push-button interface or rotary switch for intuitive, simple control of up to 32 DALI luminaires; automatic synchronisation between several control units; support of variable colour luminaires (DT8); storage of brightness values; plug and play – no need for set-up; additional functions available by set-up in smartphone App (BT): control by smartphone for grouping, scenes, colour temperature (DT8) and firmware update; DALI power supply integrated; daylight control, presence-dependent control and additional input push-button options using sensors, available separately; maximum push-button line length 50 m; maximum DALI cable length 300 m

ES Interfaz de pulsadores o interruptores giratorios para el control sencillo e intuitivo de hasta 32 luminarias DALI; sincronización automática entre varias unidades de control; compatible con luminarias de colores cambiantes (DT8); memorización de valores de luminosidad; solución “Plug and Play” sin necesidad de puesta en servicio. Funciones adicionales disponibles mediante la puesta en funcionamiento a través de app de smartphone (BT): control por smartphone, agrupamiento, escenas, temperatura de color (DT8), actualización de firmware; suministro de tensión DALI integrado; regulador de luz natural, control dependiente de la presencia y entradas de pulsadores adicionales a través de sensores disponibles opcionalmente; longitud máxima de cable para pulsadores: 50 m; longitud máxima de cable DALI: 300 m

DALIeco BT 220-240 V

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI DT8 BT Touch Dim Controller	ceiling insertion	100·79·72	005-58310000

DALI ACU BT 220-240 V

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI DT8 BT Touch Dim Controller	socket	49·48·22	005-58311000

DALI MCU TW G2 220-240 V

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI DT8 Rotary Dim Controller	socket	71·71·50	005-58313000

B Advanced DALI-2 Controller

EN DALI-2 application controller for controlling up to 64 DALI lights, 16 sensors and 16 push-button couplers in 16 groups and 16 scenes; 4 inputs for potential-free push-buttons; support of variable colour luminaires (DT8); storage of brightness values; power supply via DALI, DALI power supply available separately; start-up is performed by smartphone App; compact design for installation behind standard push-buttons; maximum push-button cable length 0.5 m; compatible with all DALI-2 peripheral components

ES DALI-2 Application Controller para el control de hasta 64 luminarias DALI, 16 sensores y 16 acopladores de pulsadores en 16 grupos y 16 escenas; 4 entradas para pulsadores libres de potencial; compatible con luminarias de colores cambiantes (DT8); memorización de valores de luminosidad; suministro de corriente a través de DALI, suministro de tensión DALI disponible opcionalmente; puesta en funcionamiento a través de app de smartphone; diseño compacto para la integración tras pulsadores estándar; longitud máxima de cable para pulsadores: 0,5 m; compatible con todos los componentes periféricos DALI-2

DALI sceneCOM S Controller 220-240 V

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI-2 DT8 BT Controller	socket	48·28·15	005-58410000

DALIeco BT RTC 220-240 V

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALIeco BT RTC	ceiling insertion	100·79·72	005-58411100

back

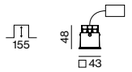
DALI-2 Sensors

EN Motion detection and ambient light level measurement; power supply via DALI line; easy and unobtrusive integration into the luminaire portfolio; requires a DALI-2 Application Controller for operation; available in ESSENTIAL (brightness, presence) and SENSE (brightness, presence, temperature, sound pressure, humidity, CO_2) versions

Sensor according to DALI-2 specifications:
EN 62386-101 Ed.2 General requirements - System components
EN 62386-103 Ed.1 General requirements - Control devices
EN 62386-303 Occupancy Sensors
EN 62386-304 Light Sensors

ES Detección del movimiento y medición de la luminosidad del entorno; suministro eléctrico por cable DALI; integración sencilla y discreta en la gama de luminarias; requiere un Application Controller DALI-2 para su funcionamiento; disponible en las variantes ESSENTIAL (luminosidad, movimiento) y SENSE (luminosidad, movimiento, temperatura, humedad y calidad del aire, nivel de ruido, CO_2)

Sensor adaptado a las especificaciones de DALI-2:
EN 62386-101 Ed.2 General requirements – System components
EN 62386-103 Ed.1 General requirements – Control devices
EN 62386-303 Occupancy Sensors
EN 62386-304 Light Sensors



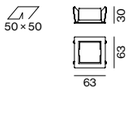
UNICO Q1 sensor recessed

220-240V

X-PERT

SENSOR INSET

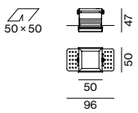
TYPE	ORDER CODE
ESSENTIAL (brightness & presence)	090-7Q10000
SENSE (brightness, presence, temperature, sound pressure, humidity, CO_2)	090-7Q10010



Mounting accessories

MOUNTING SET TRIMLESS for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ white	090-7Q10100



MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

COLOUR	ORDER CODE
○ traffic white RAL 9016	090-7Q1020W
● jet black RAL 9005	090-7Q1020B

Order options

INSET COLOUR

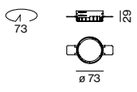
○ traffic white RAL 9016	7
● jet black RAL 9005	1

SASSO 60 sensor recessed

12V

SENSOR INSET

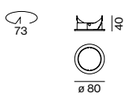
TYPE	ORDER CODE
ESSENTIAL (brightness & presence)	048-269311
SENSE (brightness, presence, temperature, sound pressure, humidity, CO_2)	048-269312



Mounting accessories

MOUNTING SET TRIMLESS for plasterboard ceilings 12.5/15/25 mm

COLOUR	ORDER CODE
○ white	048-2696117



MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

COLOUR	ORDER CODE
○ traffic white RAL9016	048-2696317
● jet black RAL 9005	048-2696318

DALI-2 Peripheral components

EN DALI peripheral components can be combined universally with all supported controls; many other components available on request

ES Los componentes periféricos DALI se combinan de manera universal con todas las unidades de control soportadas; muchos otros componentes están disponibles bajo pedido

RELAYS

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI DT7 Relais 1CH 4A	socket	41·30·11	005-5825000
DALI DT7 Relais 4CH 10A	DIN rail	59·105·90	005-5825100

SWITCH COUPLER

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI Switch Interface 4CH	socket	48·28·15	005-5821000

PHASE DIMMER

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI DT4 Phase Dimmer 300W	ceiling insertion	102·51·30	005-5822000
DALI DT4 Phase Dimmer 1000W	DIN rail	58·70·90	005-5822100

LED-BAND CONTROLLER

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI DT6 Dimmer 1CH 8A 12-48V	ceiling insertion	120·30·22	005-5823000
DALI DT8 Dimmer 2CH TW 16A 12-48V	ceiling insertion	120·30·22	005-5823100
DALI DT8 Dimmer 3CH RGB 16A 12-48V	ceiling insertion	120·30·22	005-5823200
DALI DT8 Dimmer 4CH RGBW 8A 12-48V	ceiling insertion	120·30·22	005-5823300

SENSORS

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI-2 Multisensor 5DPI (Hmax 5m)	ceiling insertion	ø58·65	005-5826000
DALI-2 Multisensor 10DPI (Hmax 10m)	ceiling insertion	ø96·37	005-5826100

REPEATER

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI Repeater	DIN rail	96·72·62	005-5827000

POWER SUPPLY

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI Power Supply 200mA	ceiling insertion	102·51·30	002-59880
DALI Power Supply 240mA	DIN rail	57·36·90	002-59871
DALI Power Supply 70mA	socket	58·30·15	005-5824200

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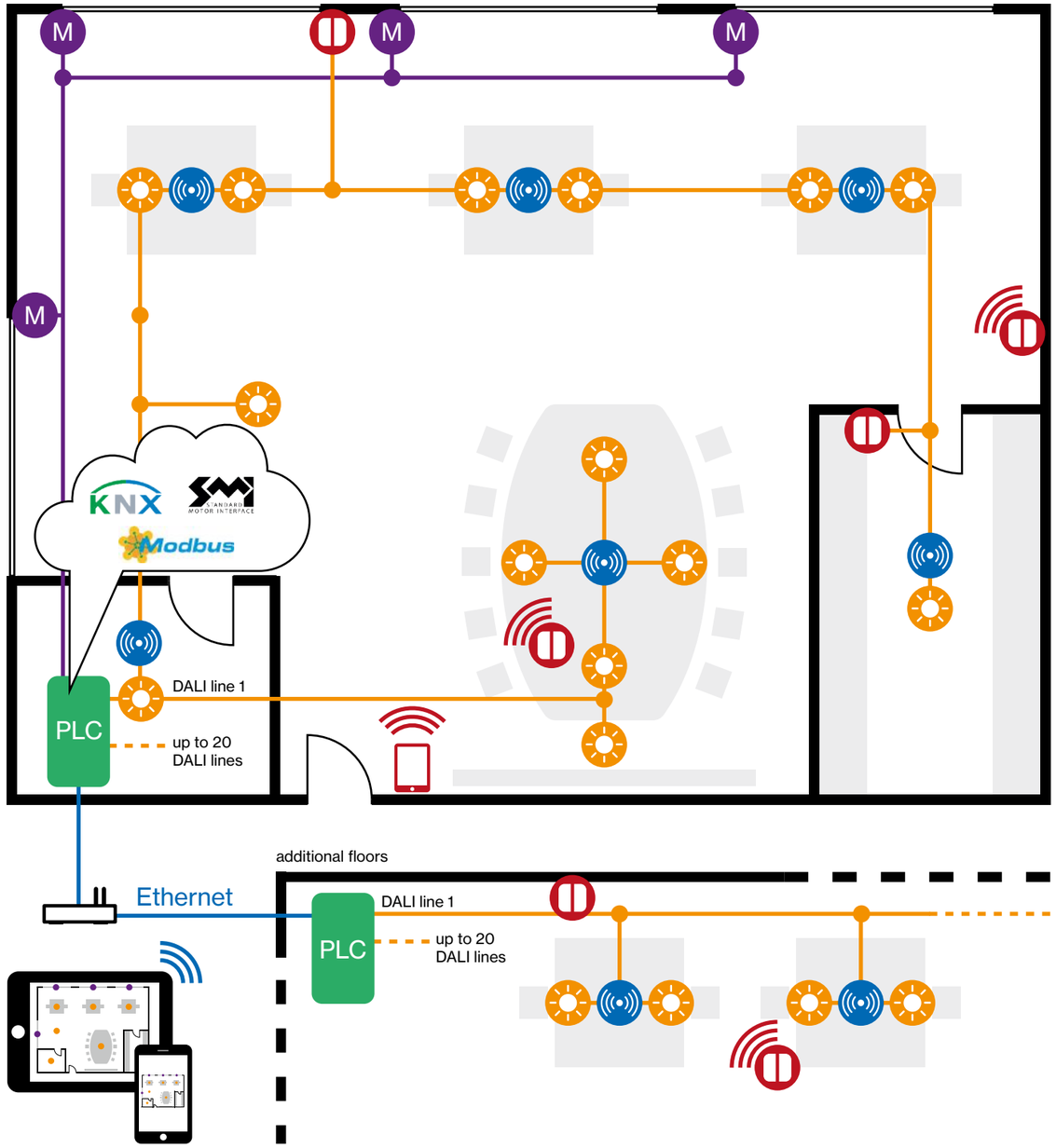
Connection Example



Light DALI
Sensor DALI
PLC Gateway/PLC
WLAN router
M Blinds motor
Wall switch DALI
Master control
Smart device

Professional Building Automation

EN DALI-2 control support, with industrial computer, for up to 10x64 DALI luminaires; flexible expansion options with various interfaces (KNX, Modbus, energy monitoring, digital I/Os); multiple controllers can be linked via network, therefore unlimited system size; support for variable colour luminaires (DT8); groups and scenes across the DALI universe; up to 12 adjustable daylight routines (colour temperature and brightness in % or in Lux with sensor); out-of-the box set-up of the standard application via web interface; detailed user manual; cascading from several controllers via Ethernet possible; Human Centric Lighting (HCL); real time clock via time server; automation functions; reporting; firmware updates regularly available; option for visualisation and expansion up to 20 DALI-2 universes when commissioned by XAL; can be standalone or integrated into IT infrastructure; 24 V controller power supply through external power supply; 18 V DALI-2 interface power supply through external power supply (maximum 5 DALI interfaces per power supply); flexible expansion and free programming options on customer request

ES Control DALI-2 asistido por sistema de control industrial de hasta 10 x 64 luminarias DALI; ampliable de manera flexible con diversas interfaces (KNX, Modbus, Energy Monitoring, entradas/salidas digitales); es posible conectar varias unidades de control entre sí, por lo que el tamaño del sistema es ilimitado; compatible con luminarias de colores cambiantes (DT8); grupos y escenas globales para todo el universo DALI; hasta 12 gradientes de luz natural ajustables (temperatura de color y luminosidad en % o en lux con sensor); puesta en funcionamiento inmediata de la aplicación estándar por interfaz web; manual de uso detallado; utilización en cascada de varias unidades de control por Ethernet; Human Centric Lighting (HCL); hora en tiempo real mediante servidor de tiempo; funciones de automatización; creación de informes; actualizaciones de firmware disponibles con regularidad; visualizaciones y ampliación posible de hasta 20 DALI-2 universos en la puesta en servicio por XAL; funcionamiento autónomo o posible integración en la infraestructura de TI; suministro de tensión de 24 V de la unidad de control por fuente de alimentación externa; suministro de tensión de 18 V de la interfaz DALI-2 por fuente de alimentación externa (5 interfaces DALI como máximo por fuente de alimentación); ampliaciones flexibles y libre programación posible a petición del cliente

INTERFACES

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
DALI-2 Interface	DIN rail	100·12·69	005-581 1100
KNX Interface	DIN rail	100·12·69	005-581 1200
Digital Output Interface 8CH	DIN rail	100·12·69	005-581 1300
Digital Input Interface 8CH	DIN rail	100·12·69	005-581 1400

ENERGY MONITORING

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
Power Measurement Interface 3-Current Converter 35A	DIN rail	100·12·69	005-581 2000
Current Converter 35A	cable	23·27·46	005-581 2100
Current Converter 60A	cable	52·60·81	005-581 2200

POWER SUPPLY

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
PS 24V 1,3A (for Controller)	DIN rail	59·54·89	005-581 4000
PS 18V 1,1A (for up to 5xDALI-2 Interface)	DIN rail	59·54·89	005-581 4100

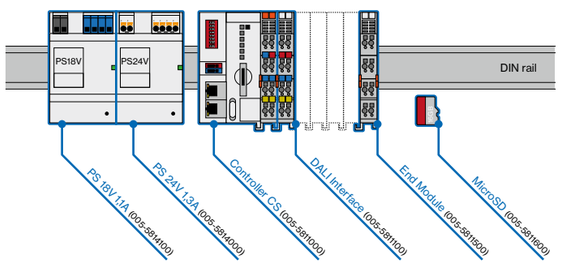
RELAYS

TYPE	MOUNTING	L-W-H (mm)	ORDER CODE
BlindRelay16A (30A/4s)	DIN rail	86·15·54	005-581 5000
Luminaire Relay 16A (120A/50ms)	DIN rail	86·15·54	005-581 5100

Extendable Preconfigured Sets

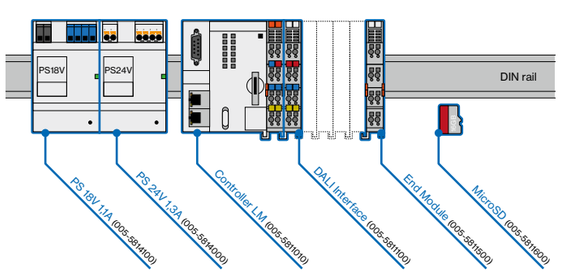
PLC DALI Set custom-made (commissioning required)

TYPE	MOUNTING	ORDER CODE
Customised Solution Basic Set	DIN rail	005-581 0100

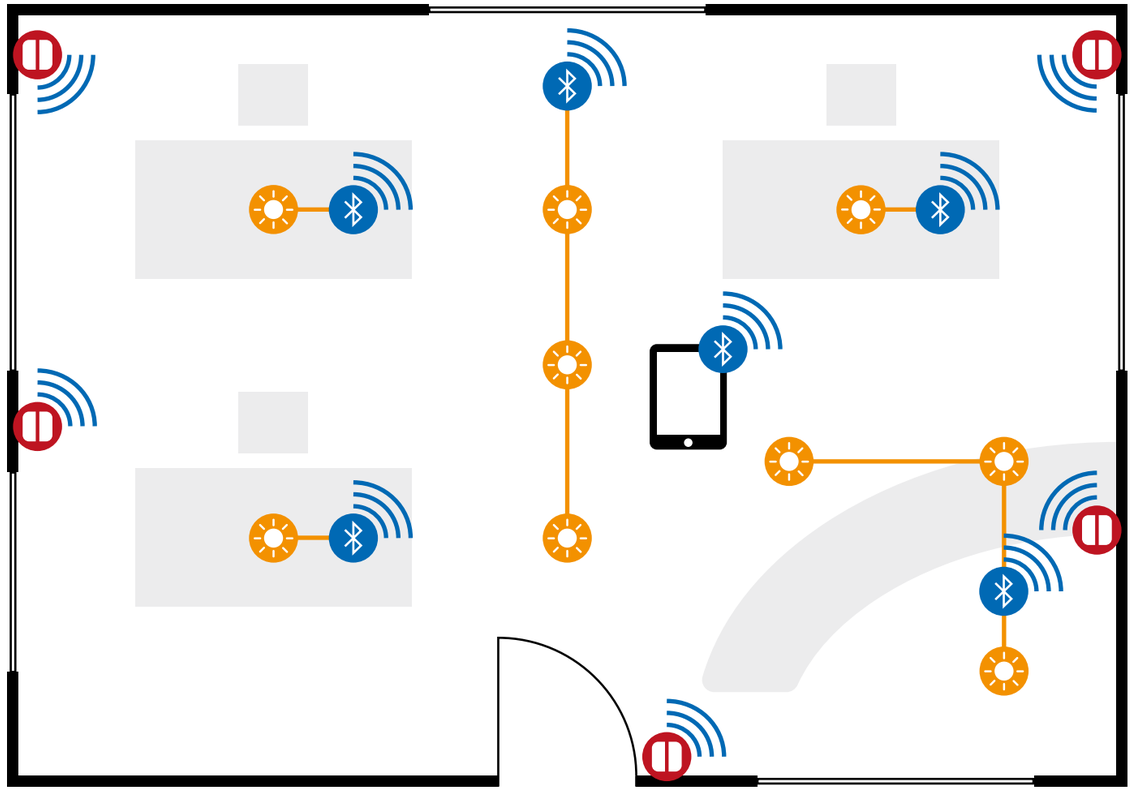


PLC DALI Set pre-programmed (Lighting Management)

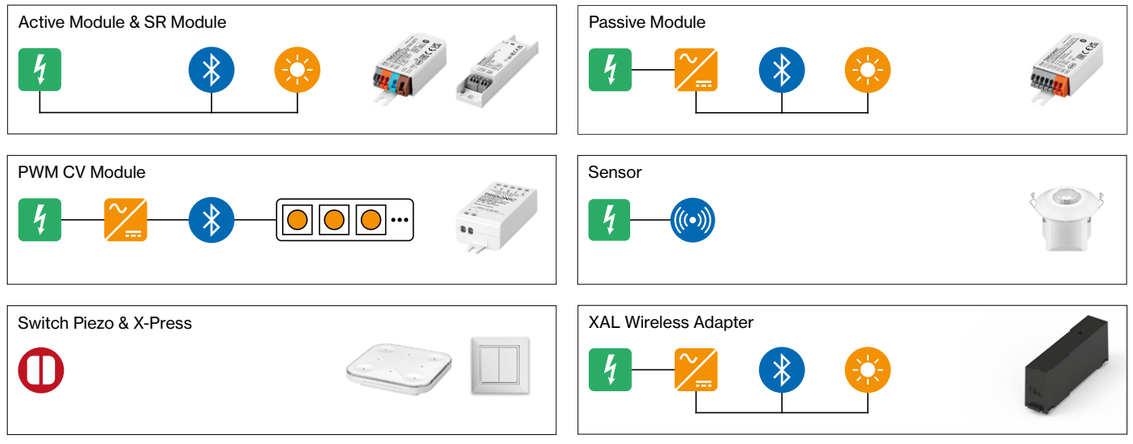
TYPE	MOUNTING	ORDER CODE
Lighting Management Basic Set	DIN rail	005-581 0000



Connection Example



Configuration



Casambi

EN Bluetooth-based mesh network for control of DALI luminaires and LED strips; network size up to 128 nodes; support of colour-changing luminaires (DT8); adjustable daylight gradients and Human-Centric Lighting (HCL) respectively; launch and control via smartphone or tablet via Bluetooth; time functions via integrated clock; system expansion possible via DALI-2 push-button modules and sensors; over-the-air firmware update; power supply either integrated or via DALI bus, depending on module; compatible with all DALI-2 peripherals

ES Red de malla basada en Bluetooth para el control de luminarias DALI y tiras LED; para redes de hasta 128 nodos; compatibilidad con luminarias de colores cambiantes (DT8); curvas de luz natural regulables y Human Centric Lighting (HCL); puesta en marcha y control por smartphone o tablet a través de Bluetooth; funciones de temporización mediante el reloj integrado; posibilidad de ampliación del sistema con módulos de pulsadores DALI-2 y sensores; actualización inalámbrica de firmware; suministro eléctrico integrado o a través de bus DALI en función del módulo; compatible con todos los componentes periféricos DALI-2

ACTIVE MODULE 220–240 V

TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
DALI Single Control	Broadcast Commands	81·30·16	005-586 1000

max. 5 DALI-2 nodes

SR MODULE 220–240 V

TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
DALI Broadcast Control	Broadcast Commands	119·30·21	005-586 2000

max. 25 DALI-2 nodes / max. 4 DALI-2 groups

PASSIVE MODULE DALI-2

TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
DALI Group Control without Power Supply	Group / Broadcast Commands	81·30·16	005-586 3000

max. 4 DALI-2 groups

4CH PWM CV MODULE 12–24 VDC

TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
LED Strip Controller	PWM Voltage	73·30·18	005-586 4000

max. 144 W

SENSOR 220–240 V

TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
Occupancy/ Light Sensor	Casambi Signal	85·85·74	005-586 5000

SWITCH PIEZO Batteryless

TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
2CH white	Casambi	81·81·14	005-586 6200
4CH white	Casambi	81·81·14	005-586 6400

SWITCH X-PRESS CR2430 Battery

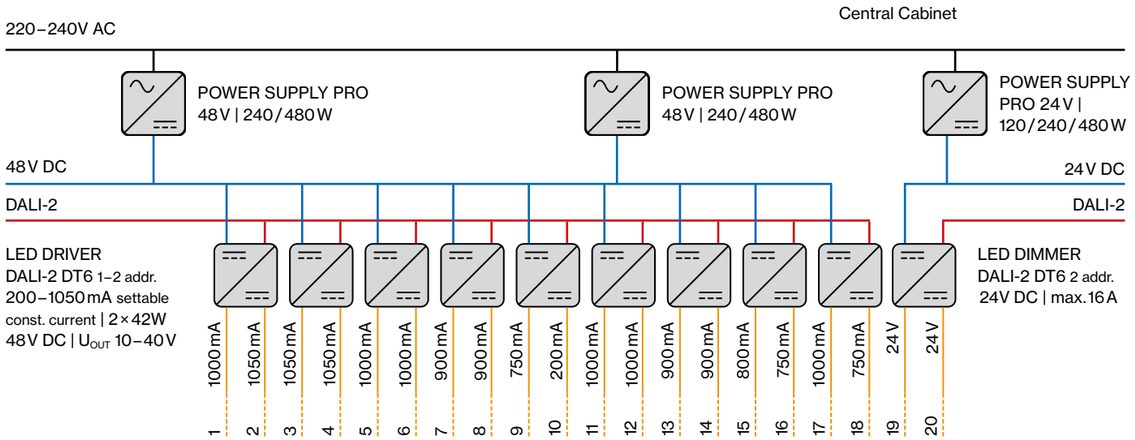
TYPE	OUTPUT	L-W-H (mm)	ORDER CODE
4CH white	Casambi	90·90·12	005-586 7007
4CH black	Casambi	90·90·12	005-586 7008

WIRELESS TO DALI-2 CONTROL DEVICE

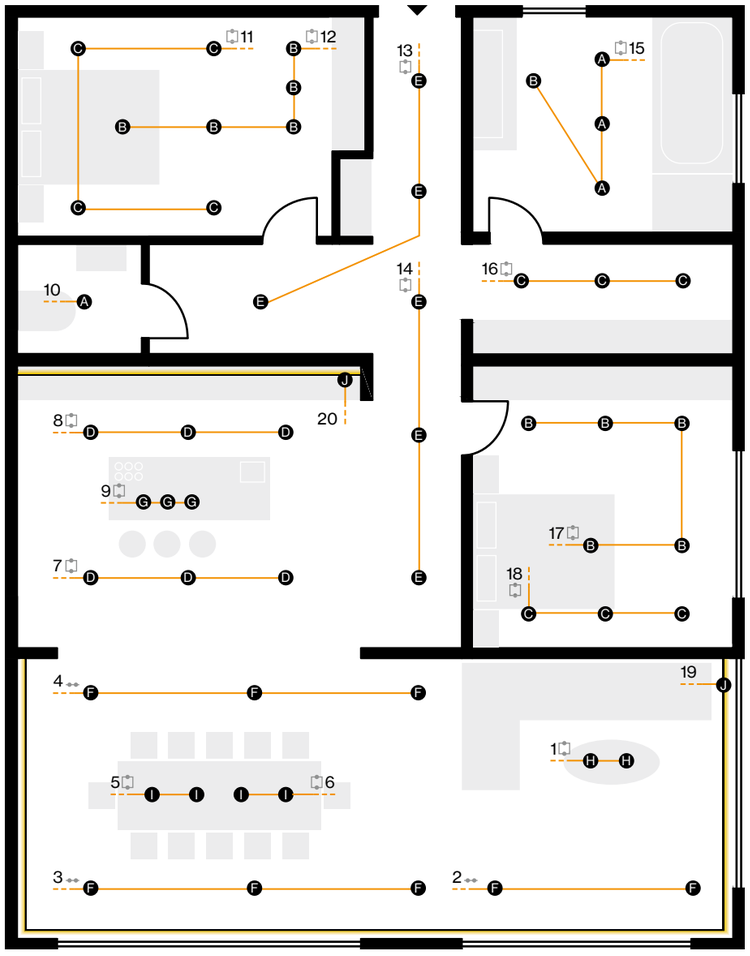
TYPE	L-W-H (mm)	ORDER CODE
Casambi	111·25·45	050-206 5230

max. 64 DALI-2 nodes / max. 4 DALI-2 groups

Connection Example



Parallel connection
Serial connection



SASSO 40 round recessed downlight
7.4W 36Vf 200mA

SASSO 40 round recessed adjustable
7.4W 36Vf 200mA

SASSO 40 round recessed wallwasher
6.8W 27Vf 250mA

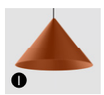
SASSO 60 square recessed downlight
10.7W 36Vf 300mA

SASSO 60 square semi-recessed
10.7W 36Vf 300mA

SPIO 60 adjustable
12.2W 12Vf 1050mA

MOVE IN 32 flex recessed
8.8W 36Vf 250mA

TULA micro suspended
8.4W 18Vf 500mA



ARY shade suspended
8.4W 18Vf 500mA

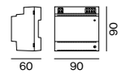
LED Strip
24V

DIN Rail Components

EN DALI-2 DIN Rail constant current / constant voltage driver for DIN rail mounting; supply voltage 24/48 VDC; output current (constant current) 200–1050 mA; output current (constant voltage) 16 A. The driver is equipped with two output channels, each providing a maximum power of up to 42 W (constant current) or 380 W (constant voltage). Until the maximum power is reached, various combinations of parallel and series connections of constant current LED loads are possible; the DIN Rail driver is located in the central current distribution board and requires a corresponding wiring of the LED loads to the distribution; parallel-added LED loads share the set or maximum output current; Serial loads share the maximum output voltage; active load monitoring prevents failure-related overcurrent of parallel, constant current LED loads.

ES Driver DIN Rail DALI-2 de corriente/tensión constante para el montaje en carril DIN; Suministro eléctrico de 24/48 V CC; Intensidad de salida (corriente constante) 200–1050 mA; Intensidad de salida (tensión constante) 16 A. El driver está equipado con dos canales de salida que ofrecen una potencia máxima de hasta 42 W (corriente constante) o 380 W (tensión constante) cada uno. Hasta alcanzar la potencia máxima, es posible emplear diversas combinaciones de cargas LED de corriente constante conectadas en serie y en paralelo; El driver DIN Rail se ubica en el cuadro de distribución eléctrica central y requiere la conexión correspondiente de las cargas LED al cuadro de distribución; Las cargas LED conectadas en paralelo se reparten la intensidad de salida configurada o máxima; Les charges en série partagent la tension de sortie maximale ; La vigilancia activa de las cargas previene un suministro eléctrico excesivo de las cargas LED de corriente constante conectadas en paralelo.

DIN Rail components constant voltage



POWER SUPPLY BASIC 24V

220–240V | 50–60Hz | ▣ PC II | MTBF @ 55° ambient temperature

TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
96W	η 87%/>150.000h	90·90·60	005-651001 0

POWER SUPPLY PRO 24V

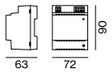
220–240V | 50–60Hz | ⏚ PC I | MTBF @ 55° ambient temperature
cascadable max. 5 devices (120W, 240W) or 3 devices (480W)

TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
120W	η 87%/>400.000h	40·125·100	005-621001 0
240W	η 90%/>350.000h	60·125·100	005-621011 0
480W	η 91%/>250.000h	120·125·100	005-621021 0

LED DIMMER

DALI-2 DT6 1–4 addr. | 12/24/48V DC | max.16A (total)
MTBF >100.000h @ 55° ambient temperature

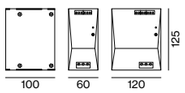
TYPE	W·H·D (mm)	ORDER CODE
LED Dimmer | 1 channel	18·90·57	005-631101 0
LED Dimmer | 2 channels	18·90·57	005-631111 0
LED Dimmer | 4 channels	18·90·57	005-631121 0



POWER SUPPLY BASIC 48V

220–240V | 50–60Hz | ▣ PC II | Lifetime @ 120W, 45° ambient temp.
cascadable max. 3 devices

TYPE	EFFICIENCY / LIFETIME	W·H·D (mm)	ORDER CODE
160W	η 94.5%/>100.000h	72·90·63	005-652021 0



POWER SUPPLY PRO 48V

220–240V | 50–60Hz | ⏚ PC I | MTBF @ 55° ambient temperature
cascadable max. 5 devices (240W) or 3 devices (480W)

TYPE	EFFICIENCY / MTBF	W·H·D (mm)	ORDER CODE
240W	η 92%/>400.000h	60·125·100	005-622011 0
480W	η 93%/>350.000h	120·125·100	005-622021 0

DIN Rail components constant current

LED DRIVER

DALI-2 DT6 1–2 addr. | 200–1050mA settable constant current in 50mA steps
2×42W | 48V DC | U_{OUT} 10–40V
MTBF ≥400.000h @ +55° ambient temperature

TYPE	EFFICIENCY	W·H·D (mm)	ORDER CODE
LED Driver | 2 channels	η 93%	36·88·59	005-612103 0

MTBF is the mean time between failure

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Colour rendering

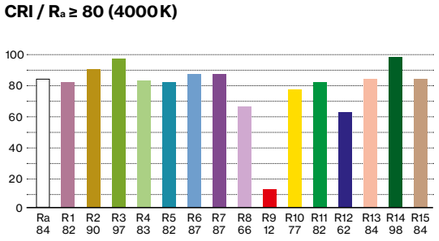
EN The colour fidelity of light sources is evaluated according to the CIE 13.3 international colour rendering rating. The test light source is compared with a reference light source using 15 selected test colours. The more accurately the test light source reproduces the test colour, the higher the colour rendering index R_a (a for German allgemein, meaning general).

The mean value of the first eight test colours (R1–R8) produces the colour rendering index. This average value is divided into moderately good colour rendering CRI 70–80, e.g. for street lighting; good colour rendering CRI 80–90, e.g. for workplace lighting; and excellent colour rendering CRI 90–100, e.g. for museums, retail, and medical examinations. The minimum requirement defined in lighting standard EN 12464-1 is CRI ≥ 80. The values of the test colours R9–R15 provide information about the colour fidelity of the saturated colours (R9–R12), skin colour (R13), leaf green (R14), and Asian skin tone (R15). The average value of all 15 test colours, which is called R(1–15), is used when evaluating colour reproduction beyond the minimum normative requirements. Consideration of the R(1–15) value is only sensible if the quality requirements are very high, starting from CRI ≥ 90. If the R(1–15) value is ≥ 90 when CRI is also ≥ 90, this is an excellent light source. An R(1–15) of ≥ 95 indicates the highest light quality.

ES La fidelidad cromática de las fuentes luminosas se evalúa con el método de ensayo internacional CIE 13.3. Para ello, la fuente de luz comprobada se compara con una fuente luminosa de referencia utilizando 15 muestras de color seleccionadas. Cuanto más exacta es la reproducción de la muestra de color por la fuente de luz comprobada, mayor es el índice de reproducción cromática R_a.

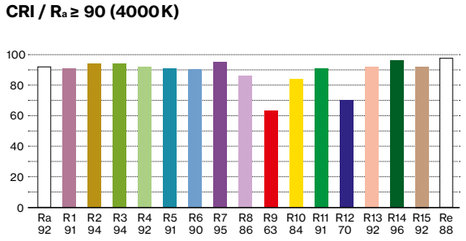
El valor medio de los primeros ocho colores de ensayo (R1–R8) da como resultado el índice de reproducción cromática R_a. Este valor medio se divide en: reproducción cromática media R_a 70–80 (por ejemplo, para el alumbrado público), buena reproducción cromática R_a 80–90 (por ejemplo, para la iluminación de lugares de trabajo), y muy buena reproducción cromática R_a 90–100 (por ejemplo, para museos, comercios y reconocimientos médicos). El requisito mínimo establecido en la norma de iluminación EN 12464-1 es $R_a \geq 80$. Los valores de los colores de ensayo R9–R15 informan de la fidelidad de color de los colores saturados (R9–R12), del color de la piel (R13), del color verde hoja (R14) y del tono de color de la piel asiática (R15). Para valorar la reproducción cromática más allá del requisito mínimo normativo, puede indicarse el valor medio de los 15 colores de ensayo, designado con el signo R_e. La consideración del valor Re solo es conveniente en el caso de requisitos de calidad muy elevados a partir de $R_a \geq 90$. Si con un $R_a \geq 90$ el valor R_e también es ≥ 90, se trata de una fuente de luz muy buena. La máxima calidad de la luz se indica con un $R_e \geq 95$.

CRI / $R_a \geq 80$ (4000 K)



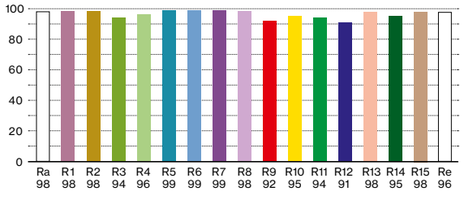
Example

CRI / $R_a \geq 90$ (4000 K)



Example

CRI / $R_a \geq 95$, $R_e \geq 95$ (3000 K)



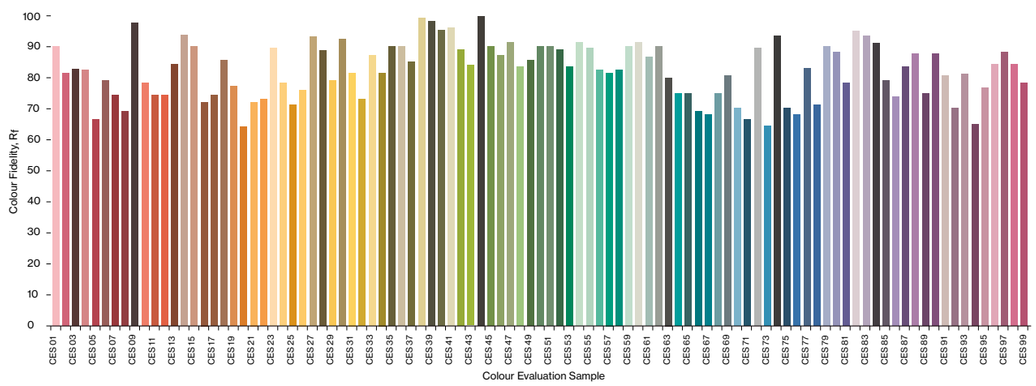
Example

IES TM 30

EN The TM 30 colour-rendering rating is intended to supplement the CIE 13.3 colour-rendering rating and is established primarily in the American-Pacific region. Instead of eight test colours, 99 test colours were selected from daily life. The average of all 99 test colours is output as R_f (f for fidelity). To evaluate the colour saturation, the R_g value (g for gamut) is defined. These two values are determined together. For R_f, the highest value is 100; for R_g, a maximum value of 140 is theoretically possible. As the R_f value approaches the maximum value of 100, the R_g value approaches the maximum of 100.

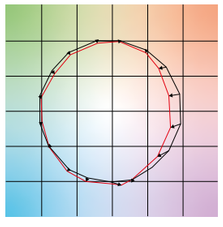
ES La norma TM 30 fue concebida como suplemento a la norma de reproducción cromática CIE 13.3, y se ha establecido sobre todo en América y en las regiones del Pacífico. En lugar de las ocho muestras de CIE 13.3, la norma TM 30 utiliza 99 muestras de color tomadas de la vida diaria. El promedio de las 99 muestras se expresa con el índice R_f (f = fidelidad cromática). Con el fin de poder evaluar también la saturación de color, se definió el índice R_g (g = gama de color). Estos dos índices se determinan al mismo tiempo. El valor máximo de R_f es 100; en R_g, el valor máximo teóricamente posible es 140. Cuando más se acerca el índice R_f al valor máximo de 100, más cerca está el índice R_g de su valor máximo de 100.

TM 30 R_f colour-fidelity rating of a test lamp



TM 30 R_g colour-saturation rating of a test lamp

Colour vector image



EN The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows.

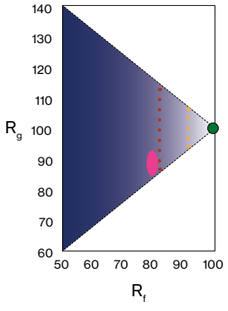
ES La línea roja muestra los resultados de la fuente de luz comprobada. La diferencia entre la fuente de luz comprobada y la referencia es reconocible y se indica mediante flechas.

Colour distortion icon

EN The reference is a white line on a black background. The over-saturation or undersaturation is very clearly visible.

ES La referencia es una línea blanca sobre fondo negro. Una saturación excesiva o insuficiente es claramente visible.

TM 30 evaluation matrix



EN Green dot: highest light quality; up to yellow dashed line: very good light quality; up to red dashed line: good light quality. Pink range: typical CRI ≥ 80 lamps are slightly below the value of R_f 80 and have a lower saturation than R_g 80.

ES Punto verde: máxima calidad luminosa; hasta la línea de puntos amarilla: muy buena calidad luminosa; hasta la línea de puntos roja: buena calidad luminosa. Área de color rosa: las luminarias con IRC ≥ 80 tienen un valor de fidelidad cromática ligeramente inferior a R_f 80 y una saturación menor que R_g 80.

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Full-spectrum LED

EN Our pupil size adapts to the light spectrum. Studies by GAMLIN already showed in 2007 that the eye's pupillary control lies in the cyan region. Standard LEDs have a very high blue content and hardly any cyan wavelengths. As a result, the eye's sensitive cells adjust to low light under these lighting conditions. As a result, the pupil dilates, and excessive blue light reaches the retina. XAL's XPECTRUM LED reproduces the natural daylight spectrum by reducing the blue-light component and increasing the cyan values. This minimises blue light's danger to the eye and brings it to a level similar to daylight.

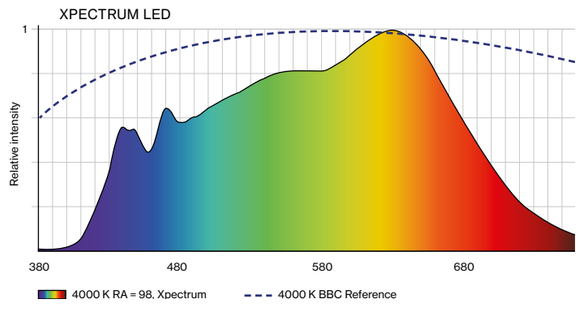
The effect goes beyond the visual field of vision. The non-visual, or biological effect of light, affects numerous bodily functions, such as hormone release, and is in part responsible for improved sleep and concentration. The biological light effect's evaluation is described in DIN SPEC 5031-100. Melanopic lighting designs can be realised much more energy-efficiently with the new XPECTRUM LEDs.

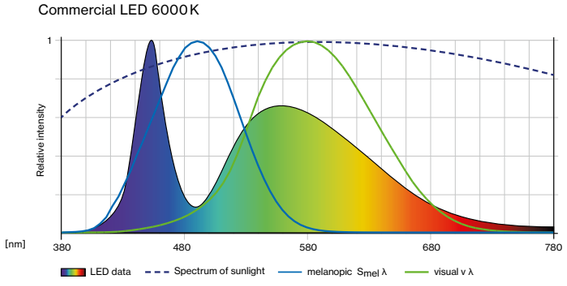
Furthermore, the full-spectrum LEDs boast excellent colour rendering. The R(1–15) colour-fidelity rating – the average of CRI 97 of all 15 test colours – is 98. The TM 30 colour-rendering evaluation results in a colour fidelity of R_f = 98 and a colour gamut of R_g = 101. XAL's XPECTRUM LEDs' high colour fidelity delivers improved visual comfort.

ES El tamaño de la pupila se adapta al espectro luminoso existente. Unos ensayos realizados por GAMLIN en 2007 mostraron que el control de la pupila del ojo se efectúa en el área de color cian. Los LED estándar cuentan con una proporción de luz azul muy elevada, pero apenas poseen longitudes de onda cian. Esto hace que, bajo tales condiciones de iluminación, las células sensibles del ojo se adapten para recibir poca cantidad de luz, provocando que la pupila se dilate y que una cantidad de luz azul demasiado elevada llegue a la retina. En cambio, el LED XPECTRUM de XAL consigue ofrecer un espectro de luz natural reduciendo la proporción de luz azul y aumentando los valores de cian. Esto minimiza el riesgo de luz azul en el ojo, limitando la incidencia a un nivel similar al ofrecido por la luz natural.

Y su efecto va más allá del espectro visible: el efecto biológico o no visible de la luz afecta a numerosas funciones corporales –por ejemplo, la liberación de hormonas– y ayuda a dormir mejor y a elevar la capacidad de concentración. La valoración de este efecto biológico de la luz se especifica en la norma alemana DIN SPEC 5031-100. Los nuevos LED XPECTRUM permiten realizar diseños de iluminación melanópicos con una eficiencia energética mucho mayor.

Además, los LED de espectro completo ofrecen una reproducción cromática excelente. El índice de fidelidad Re –promedio de 15 muestras de color– es de 98. El modelo de evaluación TM 30 arroja una fidelidad cromática R_f de 98 y una saturación R_g de 101. Estos elevados valores de reproducción cromática ofrecidos por los LED XPECTRUM de XAL garantizan una mayor comodidad visual.





EN The green curve is the human brightness-sensitivity curve v λ. The blue curve is the sensitivity curve of the retinal ganglion cells, S_{mel} λ. The pupil size is controlled by the intensity within the blue curve. The differences in intensity between XPECTRUM LEDs and conventional LEDs are clearly visible.

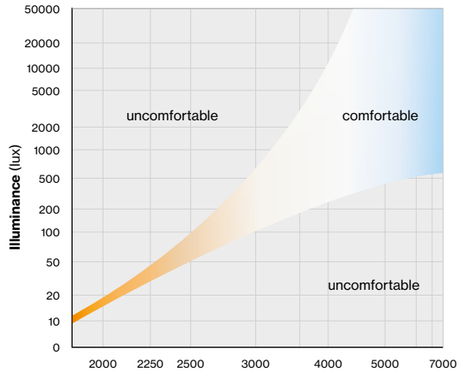
ES La curva verde es la función de luminosidad v λ que describe la sensibilidad del ojo humano. La curva azul es la función de sensibilidad de las células ganglionares de la retina (S_{mel} λ). El tamaño de la pupila es controlado por la intensidad existente en la curva azul. Las diferencias de intensidad entre los LED XPECTRUM y los LED convencionales pueden apreciarse claramente.

TW – Tunable White

EN Tunable White luminaires can independently, and with infinite variability, set the illuminance and the colour temperature between 1800 K to 6500 K, as desired. Every change in colour temperature and illuminance affects human well-being. The Kruithof comfort curve shows that high illuminance levels should be paired with cool colour temperatures and low illuminance levels with warm colour temperatures. Therefore, to best aid well-being, it is recommended to imitate daylight during the day with cool colour temperatures, and the evening with warm colour temperatures.

ES Con luminarias Tunable White, la iluminancia y la temperatura de color pueden ser reguladas de manera independiente de 1800 K hasta 6500 K aportando infinidad de variables. La combinación adecuada de la intensidad luminosa y la temperatura de color es decisiva para el bienestar en una sala. Con una baja intensidad luminosa, la temperatura de color será “más cálida”, siendo esta “más fría” a medida que aumenta la intensidad (ver curva de Kruithof). Con la tecnología Tunable White se recomienda imitar la luz diurna con luz fría y el anochecer con luz cálida para alcanzar un nivel de bienestar.

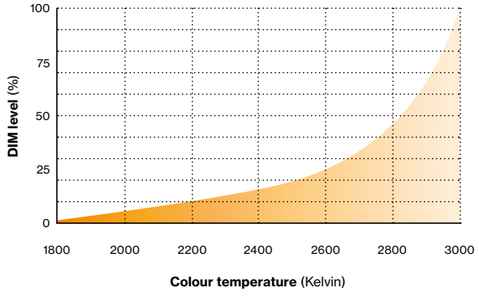
Kruithof curve



CWD – Colour Warm Dimming

EN With the CWD (Colour Warm Dimming) option, when the light intensity drops, the colour temperature simultaneously changes smoothly from 3000 K to 1800 K, in a similar manner to the dimming of a filament bulb (see diagram). The reduction in illuminance grants the light a very warm hue. This variable illuminance delivers a balanced working light during the day and a relaxing lighting mood in the evening. The CWD colour temperature curve runs within the comfort zone (see Kruithof curve).

ES La opción CWD (Colour Warm Dimming) hace que, al reducir la intensidad de la luz, se produzca además una modificación continua de la temperatura de color de 3000 K a 1800 K con una evolución similar a la curva de atenuación de una lámpara incandescente (ver gráfica). La reducción de la intensidad luminosa permite obtener un tono de luz extremadamente cálido. Esto hace posible elegir una luz de trabajo equilibrada durante el día y un ambiente luminoso relajante por la noche. La curva de temperatura de color de CWD evoluciona dentro de la zona de bienestar (ver curva de Kruithof).



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Low flicker

EN TLA (Temporal Light Artifacts) is irritating to the human eye and is therefore always perceived as disturbing. In nature, the eye has adapted over millions of years to a gradual increase and decrease in light intensity. Rapid light intensity changes are unnatural. Even the flickering of a candle can be unsettling.
Electrically operated luminaires always have at least some light intensity changes in the luminous flux due to the 50Hz alternating current. To limit these to a tolerable level, the EU's Ecodesign Directive has been in force since 1st September 2021.

The following specifications must be observed for light sources:

Output P st LM (at full load) ≤ 1
Explanation: "st" for "short term" and "LM" for "light flicker measurement method". For frequencies from 0 to 80 Hz.

Output SVM (at full load) ≤ 0.9 (from 1st September 2024 ≤ 0.4)
Explanation: "SVM" for "Stroboscopic Effect Visibility Measure". For frequencies from 80 Hz to 2,000 Hz. Frequencies above 2,000 Hz usually do not result in any adverse effects on the viewer and are therefore not included in the directive.

The EU directive only refers to the light source, but not to the surrounding product (e.g. luminaire).

XAL goes a step further and applies this specification to the light source and also to any surrounding product, i.e. to all luminaires. All XAL luminaires placed on the market after 1st September 2021 comply with the EU directive 2019/2020 (of 1st October 2019) to define ecodesign requirements for light sources and separate operating devices according to Directive 2009/125/EC of the European Parliament.

However, the Ecodesign Directive only refers to values that must be undercut under full load. Light modulations caused by luminaires in a dimmed state are not covered by the directive.

ES Los fenómenos temporales de la luz (TLA, Temporal Light Artefacts) incomodan al ojo humano y se perciben siempre como algo molesto. Durante millones de años, el ojo se ha ido adaptando a un aumento y disminución graduales de la intensidad luminosa en la naturaleza. Los cambios rápidos de luminosidad no son naturales. Incluso el parpadeo de una vela nos puede llegar a molestar. Debido a la corriente alterna de 50 Hz que las alimenta, las lámparas eléctricas siempre muestran fluctuaciones más o menos grandes de intensidad en el flujo luminoso. Para limitar estas a una magnitud tolerable, desde el 1 de septiembre de 2021 está en vigor el reglamento de ecodiseño de la UE.

Según este, las fuentes luminosas deben cumplir los siguientes requisitos:

Output P st LM (at full load) ≤ 1
Aclaración: “st” (short term) = corta duración; “LM” = método de flickermetro de luz. Para frecuencias de 0 a 80 Hz.

Output SVM (at full load) ≤ 0,9 (≤ 0,4 a partir del 1 de septiembre de 2024)
Aclaración: “SVM” = “Stroboscopic Effect Visibility Measure” = medida de la visibilidad estroboscópica. Para frecuencias de 80 a 2.000 Hz.

Las frecuencias superiores a 2.000 Hz no suelen causar perjuicio al observador, por lo que no se incluyen en el citado reglamento.

El reglamento de la UE solo hace referencia a la fuente luminosa, no al producto completo (luminaria).

XAL va un paso más allá y aplica estos requisitos no solo a la fuente de luz, sino también a cualquiera de sus luminarias. Todas las luminarias XAL comercializadas a partir del 1 de septiembre de 2021 cumplen el Reglamento (EU) 2019/2020 de la Comisión (de 1 de octubre 2019), por el que se establecen requisitos de diseño ecológico para las fuentes luminosas y los mecanismos de control independientes con arreglo a la Directiva 2009/125/CE del Parlamento Europeo.

No obstante, el reglamento de ecodiseño se refiere únicamente a los valores límite que no se deben superar a plena carga (“full load”). Dicho reglamento no contempla los fenómenos luminosos ocasionados por lámparas atenuadas.

Photobiological safety in lighting

EN Photobiological safety refers to the potential risk of photochemical damage to the eye's retina triggered by strong electromagnetic radiation from light sources, primarily in the wavelength range between 380nm and 500nm.

Legal framework
For the assessment of the photobiological safety of the optical radiation generated by lamps, there are measurement regulations and evaluation standards that are specified in the EN 62471:2008 European standard. It is in accordance with the European Directive 2006/25/EC.

Assessment of the blue light hazard from light sources
Unlike UV radiation, which is already absorbed in the outer tissue layers of the eye, blue light rays pass through the cornea and are imaged on the retina. Small light sources with high luminance create a locally high risk, while the identical radiant power is distributed in a large-area light source, creating a lower risk.

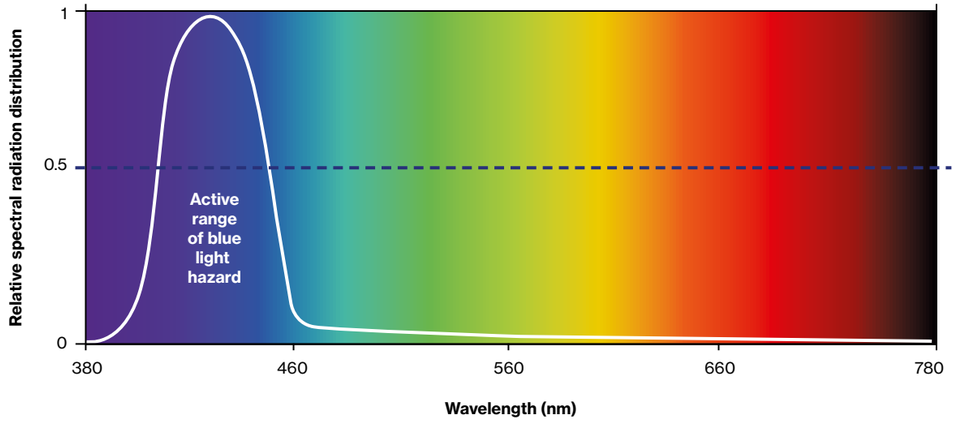
Risk classification of lamps and luminaires
For all types of hazards, there are measurement methods as well as limit values for radiance or irradiance. The luminaires are classified into risk groups of levels 0 to 3 accordingly.

ES La seguridad fotobiológica se refiere al riesgo potencial de lesión fotoquímica en la retina del ojo provocada por una fuerte radiación electromagnética procedente de fuentes luminosas, principalmente en las longitudes de onda de entre 380 nm y 500 nm.

Marco legal
Para la evaluación de la seguridad fotobiológica de la radiación óptica emitida por lámparas, existen prescripciones de medición y escalas de evaluación establecidas en la norma europea EN 62471:2008, la cual se adapta a la directiva europea 2006/25/CE.

Evaluación del riesgo de luz azul derivado de fuentes luminosas
A diferencia de la radiación UV, que se absorbe en las capas de tejido exteriores del ojo, los rayos de luz azul atraviesan la córnea y se reproducen en la retina. Las fuentes luminosas pequeñas dotadas de una gran luminancia generan un riesgo local elevado. En cambio, la misma radiación emitida por una fuente de luz de gran tamaño se distribuye con mayor amplitud, provocando con ello un menor riesgo.

Clasificación del riesgo de lámparas y luminarias
Para todos los tipos de riesgo, existen métodos de medición y valores límite de radiancia o irradiancia que sirven para clasificar las lámparas en grupos de riesgo de nivel 0 a 3.



Conventional light panels correspond to risk group 0. Spotlights often fall into risk group 1. Powerful spotlights can also fall into risk group 2. Luminaires in risk group 2 must be marked with a warning.

For more information visit
xal.com/know-how

Los paneles luminosos usuales corresponden al grupo de riesgo 0. Los focos suelen clasificarse en el grupo de riesgo 1, aunque algunos focos potentes también pueden corresponder al grupo de riesgo 2. Las lámparas del grupo de riesgo 2 deben ir etiquetadas con una señal de advertencia.

Encontrará más información en xal.com/es/conocimientos/seguridad-fotobiologica-en-la-iluminacion/

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IoT ready

EN Unlike DALI-2 or Zigbee 3.0, IoT ready is not a standard, but instead demonstrates the possibility of equipping a luminaire with various sensors (presence, brightness, temperature, air quality, acoustics, etc.) and addressing them wirelessly. Existing standards ensure that our customers retain full control. An IoT ready luminaire can become an active part of the Internet of Things. In addition to its primary task of illuminating a room, it can send the building management system essential data about the room and its use or user preferences. Data collected in the IoT can guide direct control and optimise a wide range of functions such as lighting, HVAC (heating, ventilation, and air conditioning), cleaning, security, and much more.

ES Al contrario que DALI-2 o Zigbee 3.0, “IoT ready” no es ningún sistema de control estandar, sino una designación que indica la posibilidad de equipar una luminaria con sensores diversos (presencia, luminosidad, temperatura, calidad del aire, acústica, etc.) y controlarlos de forma inalámbrica. Este método utiliza los estándares existentes para no limitar a nuestros clientes a la hora de su manejo. Una luminaria “IoT ready” puede convertirse en un componente activo de la Internet de las cosas (IoT) y, junto a su cometido principal de alumbrado de una sala, proporcionar datos esenciales sobre dicha sala y su utilización o las preferencias del usuario al sistema de gestión del edificio (BMS). Los datos recogidos en la IoT pueden utilizarse directamente para controlar y optimizar diversos dispositivos, tales como sistemas de iluminación, climatización (calefacción, ventilación y aire acondicionado), limpieza o seguridad, entre otros muchos.

DALI lighting control

EN The DALI-2 (Digital Addressable Lighting Interface) control protocol is a standard in building automation to govern lighting control gear. The new version of the DALI standard, DALI-2, defines control devices (e.g. push buttons, light and motion sensors) uniformly in the standard. DALI-2, therefore, makes it possible, inter alia, to share control functions across manufacturers. Up to 64 luminaire control units and 64 control units can be operated together on one DALI line in a DALI-2 system.

ES En el terreno de la domótica, el protocolo de control DALI-2 (Digital Addressable Lighting Interface) es un estándar para el control de equipos luminotécnicos. Con la nueva versión de la norma DALI (DALI-2), los aparatos del tipo “controles” (botones, sensores de luz y movimiento, etc.) quedan definidos en la norma de un modo homogéneo. Así, DALI-2 permite, entre otras cosas, implementar funciones de control en equipos de fabricantes diversos. Esto hace posible que en un sistema DALI-2 se puedan utilizar 64 balastos y 64 unidades de control juntos en una sola línea DALI.

Wireless Zigbee lighting control

EN The Zigbee wireless protocol has become an essential standard in the smart home sector, especially in lighting control. Since Zigbee’s latest version 3.0, the previously individual profiles have been combined into a multifunctional and uniform protocol. The new protocol enables flexible and straightforward networking of different device types from different manufacturers. This network capability allows luminaires, sensors, and buttons, for example, to be controlled and set intuitively via the mobile app. XAL luminaires equipped with a Zigbee 3.0 module certified by the Zigbee Alliance meet the highest safety standards and compatibility criteria:

- leading wireless standard in smart lighting
- no additional wiring required
- sophisticated security mechanisms
- easy control and set-up via the app
- long range thanks to the mesh network
- low energy consumption

ES El protocolo inalámbrico Zigbee se ha convertido en uno de los estándares más importantes en el terreno de la domótica y, sobre todo, del control de la iluminación. A partir de la última versión 3.0 de Zigbee, los distintos perfiles, hasta ahora independientes, se han agrupado formando un solo protocolo unitario con múltiples funciones. Este permite conectar entre sí distintos tipos de dispositivos de fabricantes diversos de un modo sencillo y flexible, pudiendo así controlar y ajustar luminarias, sensores y botones intuitivamente con una aplicación para móviles. Las luminarias XAL equipadas con un módulo Zigbee 3.0 certificado por Zigbee Alliance, satisfacen los mayores niveles de seguridad y criterios de compatibilidad:

- Estándar inalámbrico líder en el campo de la iluminación inteligente
- No se precisa conexión por cable adicional
- Sofisticados mecanismos de seguridad
- Fácil control y configuración mediante app
- Amplia cobertura gracias a una red de malla
- Bajo consumo de energía

Technical information

Glossary

EN **Luminous Flux**
Luminous flux, with the unit of one lumen, denotes the total light emission of a luminaire. The information on the luminous flux in this catalogue is subject to a tolerance of ±10 %.

EN **System Power**
System power is the total power consumption of a luminaire in watts including any necessary ballasts. The values in this catalogue are rated values which may be exceeded by a maximum of 10 % in individual cases. For selected luminaires we indicate the inset power instead of the system power; if so, a separate remark can be found on the product’s page.

EN **Colour Temperature**
Colour temperature, with the unit of one Kelvin (K), describes the appearance given by a light source. As an approximation, it is specified as the correlated colour temperature, or CCT; it is also dependent on minimum variation under operation. The colour point lies at least within 3 SDCM.

EN **Electromagnetic Compatibility (EMC)**
Electromagnetic compatibility (EMC) is the property of an electrical device to function in its environment without affecting other devices. XAL not only tests single luminaires, but also representative lighting configurations in the system network. The test set-up complies with the high requirements of the relevant directives and standards.

Abbreviations

EN **lm (lumen)**
The lumen is the unit of luminous flux. Luminous flux describes the light energy in the visible band radiated from a light source in all directions.

EN **lx (lux)**
The lux is the unit of illuminance. The illuminance describes the total luminous flux incident on a given surface. Lux is equal to Lumen per m² (lx=lm/m²).

EN **cd (candela)**
Candela is the unit of luminous intensity. The luminous intensity describes the luminous flux per illuminated solid angle (cd = lm/sr).

EN **UGR (Unified Glare Rating)**
UGR is a procedure for the evaluation of discomfort glare from artificial lighting in indoor spaces. Depending on the difficulty of visual tasks, the corresponding limits should not be exceeded. The UGR limit values are defined in the standard EN 12464 for activities and visual tasks. UGR = 19 is permitted as the maximum value for office spaces.

EN **cd/m²**
Luminance is the intensity of light reaching the eye from the surface being viewed.

EN **LGP (Light Guiding Prism)**
Light-guiding structures in illuminated, transparent material that ensure the desired distribution of light when light is introduced from the side.

Explicaciones

ES **Flujo luminoso**
El flujo luminoso con la unidad lumen indica la emisión de luz total de una luminaria. Los datos que figuran en este catálogo relativos al flujo luminoso están sujetos a una tolerancia de +/-10 %.

ES **Potencia del sistema**
La potencia del sistema indica el consumo energético total de una luminaria en vatios, incluyendo cualquier balasto necesario. Los valores incluidos en este catálogo son valores nominales que pueden ser rebasados en casos concretos en un 10 % como máximo. En luminarias determinadas, en lugar de la potencia del sistema se indica la potencia de inserción; en tal caso, la página del producto contendrá una advertencia al respecto.

ES **Temperatura de color**
La temperatura de color, expresada en Kelvin (K), describe el aspecto de una fuente de luz. La temperatura de color se indica de forma aproximada como valor correlacionado CCT; además, depende de unas condiciones de funcionamiento constantes. El punto de color se halla al menos dentro de 3 SDCM.

ES **Compatibilidad electromagnética (CEM)**
Por compatibilidad electromagnética (CEM) se entiende la propiedad de un dispositivo eléctrico de funcionar en su entorno sin influir en otros dispositivos. XAL ensayó no sólo luminarias individuales, sino configuraciones de luminarias representativas en un grupo de sistemas interconectados. La configuración de la prueba cumple las elevadas exigencias de las directivas y normas aplicables.

Abreviaturas

ES **lm (Lumen)**
Lumen es la unidad del flujo luminoso. El flujo luminoso describe la potencia radiada en todas las direcciones por la fuente de luz en el espectro visible.

ES **lx (Lux)**
Lux es la unidad de la intensidad de iluminación. La intensidad de iluminación describe el flujo luminoso que incide sobre una superficie determinada. Lux es lumen por m² (lx=lm/m²).

ES **cd (candela)**
Candela es la unidad de la intensidad luminosa. La intensidad luminosa describe el flujo luminoso por ángulo espacial irradiado.

ES **UGR (Unified Glare Rating)**
El UGR es un procedimiento para la evaluación del deslumbramiento. En función de la dificultad de las tareas visuales no deberían superarse los límites correspondientes. Los límites del UGR están establecidos en la norma EN 12464 para actividades y tareas visuales. Para oficinas UGR = 19 es el máximo valor admisible.

ES **cd/m²**
La luminancia es la intensidad de la luz que llega al ojo desde la superficie que se observa.

ES **LGP (Light Guiding Prism)**
Estructuras que dirigen la luz en un material transparente y conductor de luz, que con un acoplamiento de luz lateral aseguran la distribución de la luz deseada.

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Symbols

360° 35°

EN Specifies the rotation and pivoting capability of the spotlight.

CRI ≥90

EN A colour rendering index greater than 90 indicates very good colour reproduction, which is applied in museums and high-quality retail areas.

2-SDCM

EN High-quality LED sorting with minimal colour location deviation. The centre of binning is located in the centre of the ANSI C78.377-2015 binning system. With 2-SDCM scale the chromaticity coordinates are within a range of < 70 K.

UGR ≤19

EN Glare-free workplace luminaire according to DIN EN 12464-1.

cd/m² ≤3000

cd/m² ≤1500

EN Workplace luminaire suitable for VDUs. The luminance is above the downward-radiating light cone with an aperture angle of ± 65°, ≤ 1500 cd / m² (necessary for black screen for CAD activities) or ≤ 3000 cd / m² for white screen for office activities.

RG 0 IEC 62471

EN According to the international standard IEC 62471 the luminaire presents no photobiological hazard. No damage is caused to the eyes even when continuously looking directly in the direction of the light source (unrestricted duration of exposure).

DALI 1 ADDR.

EN Indicates the number of DALI addresses of a luminaire.

220-240V

220-240V

xx0mA

EN Protection classes provide information on how well a luminaire is protected against the risks of a current surge due to contact.

PC I: Protective earthing
PC II: Reinforced or double protective insulation
PC III: Safety extra-low voltage

CE

EN The CE marking indicates a declaration of the manufacturer that the luminaire complies with all applicable European requirements.

CB

EN This includes an external review of the product and all applicable European requirements. A CB (Certification Body) test certificate facilitates the acquisition of other national certification marks.

EN Luminaires that are allowed to carry the ENEC certificate are tested according to the strict ENEC standards. Compliance is guaranteed by annual product and factory inspections.

IP20 IP40

EN Degree of protection for recessed luminaires. The upper specification refers to the built-in housing part; the lower one refers to the visible part of the lamp.

Símbolos

ES Indica la capacidad de giro y de orientación de los proyectores.

ES El índice de reproducción del color mayor de 90 significa una muy buena reproducción del color, de aplicación en museos y en el sector minorista de alta calidad.

ES Clasificación de LED de alta calidad con mínima desviación de la ubicación del color. El centro del binning se encuentra en el centro del sistema de binning ANSI C78.377-2015. Con una escala de 2 SDCM las coordenadas de cromaticidad están dentro de un rango de < 70 K.

ES Luminaria de lugar de trabajo adecuada para pantallas conforme a DIN EN 12464-1.

ES Luminarias de lugar de trabajo adecuadas para VDU. La luminancia está por encima de la radiación hacia abajo con un cono de luz con un ángulo de apertura de ± 65°, ≤ 1500 cd / m2 (necesario para la pantalla negra para actividades de CAD) o ≤ 3000 cd / m2 para el blanco
para las actividades de la oficina.

ES De acuerdo con la norma internacional IEC 62471, la luminaria no supone un riesgo fotobiológico. No hay daños en el ojo, incluso cuando se mira continuamente hacia la fuente de luz (tiempo de exposición ilimitado).

ES Indica el número de direcciones DALI de una luminaria.

ES Las clases de protección facilitan información sobre hasta qué punto una luminaria está protegida contra los riesgos de una descarga eléctrica por contacto.
CP I: puesta a tierra
CP II: aislamiento reforzado o doble
CP III: baja tensión de protección

ES Con la marca CE el fabricante declara que la luminaria cumple todos los requisitos europeos vigentes.

ES Una revisión externa del producto y de todos los requisitos europeos vigentes. Un certificado CB facilita la obtención de otras marcas de certificación nacionales.

ES Las luminarias que pueden llevar la marca ENEC han sido examinadas conforme a las estrictas directivas de las normas ENEC. Su cumplimiento es garantizado mediante una inspección anual del producto y de la fábrica.

ES Grado de protección para luminarias empotradas. El dato superior se refiere a la pieza de la carcasa empotrada, la inferior a la parte visible de la luminaria.

IPXX

EN Degree of protection (IP codes) according to DIN EN 60529. IP (Ingress Protection) indicates a level of protection against intrusion. The first digit of the IP code refers to the protection against the penetration of solid particles and dust. The second digit of the IP code refers to the protection against ingress of water and moisture.

ES Grados de protección (códigos IP) conforme a DIN EN 60529. IP (Ingress Protection) significa la protección contra la penetración. El primer índice del código IP se refiere a la protección contra la penetración de cuerpos extraños sólidos y de polvo. El segundo índice se refiere a la protección contra el agua y la humedad.

Code digit 1 for contact protection	Índice 1 para la protección contra el contacto
IP2X Protection against foreign objects with a diameter ≥ 12 mm	Protección contra cuerpos extraños de diámetro ≥ 12 mm
IP3X Protection against foreign objects with a diameter ≥ 2.5 mm	Protección contra cuerpos extraños de diámetro ≥ 2,5 mm
IP4X Protection against foreign objects with a diameter ≥ 1 mm	Protección contra cuerpos extraños de diámetro ≥ 1 mm
IP5X Full contact protection, against dust deposits internally	Protección total contra el contacto, protección contra depósitos de polvo en el interior
IP6X Full contact protection, protection against ingress of dust	Protección total contra el contacto, protección contra la penetración de polvo

Code digit 2 for protection against water	Índice 2 para la protección contra el agua
IPX0 No water protection	Ninguna protección contra el agua
IPX1 Protected against vertical falling water droplets	Protegida contra goteos verticales de agua
IPX2 Protected against diagonal falling water droplets	Protegida contra goteos inclinados de agua
IPX3 Protected against water spray	Protegida contra agua pulverizada
IPX4 Protected against water splashing	Protección contra salpicaduras de agua
IPX5 Protected against water jets (from all directions)	Protegida contra chorros de agua (de todas las direcciones)
IPX6 Protected against ingress of water with transient flooding	Protegida contra la penetración de agua en caso de inundaciones temporales
IPX7 Protected against ingress of water with submersion	Protegida contra la penetración de agua en caso de inundaciones temporales

IKXX

EN IK type protection is a measure of the resistance of electrical equipment housings to mechanical stress (impact loads) and is determined by the standard test method according to IEC 62262.
IK 07: up to 2 joules impact strength
IK 09: up to 10 joules impact strength
IK 10: up to 20 joules impact strength

ES El grado de protección IK es una medida de la capacidad de resistencia de carcasas de material eléctrico a esfuerzos mecánicos (impactos) y es comprobado mediante el método de prueba normalizado conforme a IEC 62262.
IK 07: hasta 2 julios de resistencia al impacto
IK 09: hasta 10 julios de resistencia al impacto
IK 10: hasta 20 julios de resistencia al impacto

X-PERT

EN Light source replaceable by an authorized professional.

ES La fuente de luz puede ser sustituida por especialistas autorizados.

EN Light source replaceable by end-user.

ES Fuente de luz reemplazable por el usuario final.

EN Light source not replaceable.

ES Fuente de luz no reemplazable.

X-PERT

EN Control gear replaceable by an authorized professional.

ES Los equipos de control pueden ser sustituidos por especialistas autorizados.

EN Control gear replaceable by end-user.

ES Equipo de control reemplazable por el usuario.

EN Control gear not replaceable.

ES Aparato de control no reemplazable.

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Classic colours

RAL 9003
signal white | B01F

RAL 9016
traffic white | C01F

RAL 9002
grey white | C02F

RAL 1035* bronze/
pearl beige | C04F

RAL 260-M*
gold dust | C05F

RAL 080 60 30*
brass gold | C06F

RAL 9010
pure white | A01F

RAL 085 80 10
velvet beige | B02F

RAL 7044
silk grey | A04F

RAL 7048
pearl mouse grey |
C07F

RAL 8014
sepia brown | A08F

RAL 330-M*
copper | C17F

RAL 9006
white aluminium | A06F

RAL 9007
grey aluminium | A07F

RAL 9023
dark pearl grey | C03F

RAL 7022
umbra grey | A02F

RAL 9004
signal black | B04F

RAL 9005
jet black | A05F

Trend colours

RAL 5014
pigeon blue | C08F

RAL 230 60 10
kingfisher grey | B05F

RAL 7000
squirrel grey | C09F

RAL 2002
vermillion | C15F

RAL 3016
coral red | C16F

RAL 050 40 40
madeira brown | B03F

RAL 6019
pastel green | C10F

RAL 6027
light green | C11F

RAL 5018
turquise blue | C12F

RAL 3015
light pink | C18F

RAL 3014
antique pink | C19F

RAL 2000
yellow orange | C20F

RAL 100 50 20
green woodpecker
olive | B06F

RAL 6018
yellow green | C13F

RAL 5005
signal blue | C14F

RAL 1016
sulphur yellow | C21F

RAL 1018
zinc yellow | C22F

RAL 1032
broom yellow | C23F

Acoustic colours

royal yellow | F02N

spring green | F03N

bottle green | F04N

bright blue | F05N

indigo blue | F06N

anthracite | F09N

lime stone | F14N

autumn red | F11N

oxide red | F12N

aubergine | F13N

white

marble grey

felt grey

black

PRODUCT COLOURS	standard	available
ARY cable / rod suspended	7 8	
ARY shades	C T L G W B	
BASO 60 IP54 recessed, surface	7 D	
BETO circle suspended	7 8	
BETO suspended	7 8	
BETO free standing	7 8	
BETO ceiling / suspended system	7 8	
BO semi-recessed / surface / intrack	7 8	
BO track	7 8	
CANYON 60 recessed	7 8	
CAVO round / square / linear	7 8	
CAVO JUST spotlight insets	7 8 9	
COMBO trim	7	
CORNER surface	7 G 8	
DESO suspended	7	
FLOW surface	7 G 8	
FRAME 60 / 100 trim	7 G	
HEX-O ceiling / suspended	7 8	
HEX-O acoustic elements	W D G L	
INO circle / square suspended	7 G 8	
JANE semi-rec. / surface / suspended	7 8	
LENO semi-recessed / surface / susp.	7 8	
LENO recessed	7	
LINEA wall	7 8	
LITO 60 suspended	7 G 8	
MINIMAL 60 / 100 trimless	7	
MINO 40 / 60 / 100 surface / susp.	7 G 8	
MINO 40 / 60 / 100 system	7 G 8	
MINO CIRCLE ceiling / suspended	7 G 8	
MINO CIRCLE acoustic elements	W D L	
MITA circle ceiling	7 8	
MITA circle / square recessed	7 8	
MOVE IT 25 / 25 S / 45 trimless	8	
MOVE IT 25 / 25 S / 45 surf. / susp.	8 G	
MOVE IT 25 / 25 S / 45 susp. indirect	8 G	
MOVE IT FLEXTRACK extension	8 G	
MOVE IT JUST spotlight inset	7 8	
MOVE IT PAL suspended dec. inset	7 8	
MOVE IT PIVOT graphic light inset	8	
MOVE IT LINEAR insets	8	
MOVE IT system – acoustic elements	W L	
MOVE IT wästberg w203 dec. inset	7 8	
MOVE IN housing	7 G 8	
MOVE IN inset	7 8	
MUSE double light / light / baffle	B G P E	
PABLO track	7 8	

PRODUCT COLOURS	standard	available
RECOVER wall	7	
SASSO base / wall – housing	7 1	
SASSO base / wall – inset	7 4 1 9	
SASSO 40 recessed – mounting set	7 8	
SASSO 60 / 100 rec. – mounting set	7 G 8	
SASSO recessed – inset	7 4 1 9	
SASSO semi-rec. / ceiling – housing	7 1	
SASSO semi-rec. / ceiling – inset	7 4 1 9	
SASSO suspended – housing	7 1	
SASSO suspended – inset	7 4 1 9	
SASSO PRO mounting set	7 8	
SASSO PRO inset	7 8	
SETA ceiling / suspended system	7 8	
SETA suspended	7 8	
SONIC absorber	W D L	
SONIC free standing / suspended	7 6	
SONIC soundcap	W D G L	
SONO recessed / surface	7	
SONO LOOP surface	7 D	
SPADO round / square	7 8	
SPIO recessed	7	
SQUADRO wallwasher recessed	7 8	
SQUADRO wallwasher track	7 8	
STRETTA surface	7 8	
STRETTA end caps	7 G 8	
TASK acoustic elements	W D G L	
TASK circle / angular suspended	7 8	
TASK round / square / surface / susp.	7 8	
TASK S suspended	7 8	
TASK S suspended system	7 8	
TASK free standing	7 6 8	
TASK table / wall	7 8	
TRACK recessed	7 8	
TRACK surface / suspended	7 6 8	
TRACK high surface / suspended	7 8	
TRACK round surface / suspended	7 8	
TUBO 60 / 100 surface / suspended	7	
TULA suspended	4 7 8	
TWIST mounting set	7 8	
TWIST inset	7 8	
UNICO recessed	W B	
UNICO ceiling	W G B 9	
UNICO wall recessed	W B	
UNICO wall surface	W G B	
VARO track	7 8	
VELA surface / suspended	7 G 8	

Classic colours & Trend colours

Acoustic colours

Photographer overview

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