

XAL 23

EN

ES

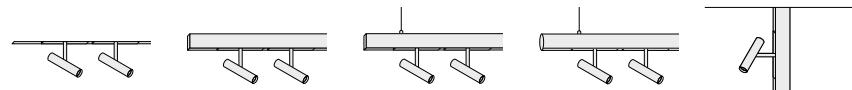
News



Contents

MOVE IT 10

installation track



4

recessed
trimless
12

surface
square
12

suspended
square
14

suspended
round
14

pole
square/round
16

linear
insets



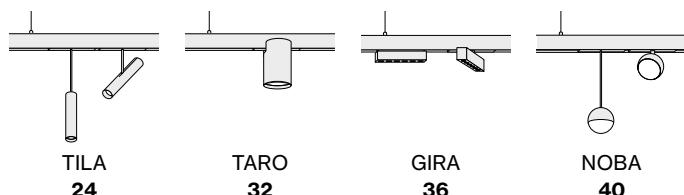
SPOT LINE
direct
20

OPAL
direct
20

DARKLIGHT
direct
20

indirect
20

decorative
insets



TILA
24

TARO
32

GIRA
36

NOBA
40

TUBO 60

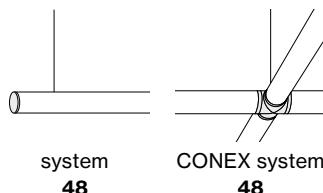
surface

44

system
48

CONEX system
48

suspended



system
48

CONEX system
48

SETA

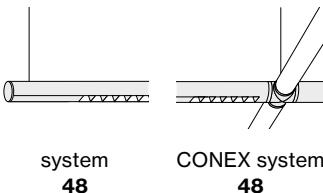
ceiling

44

system
48

CONEX system
48

suspended



system
48

CONEX system
48

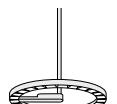
MITA

ceiling

54

suspended
58

suspended
64



64

SPIO

recessed

68

20
downlight
72

20
wallwasher
72

60
downlight
76

60
adjustable
76



SQUADRO

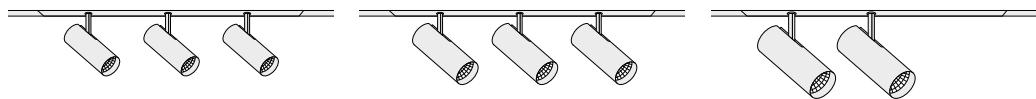
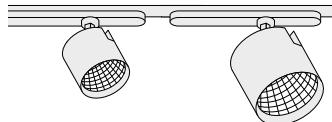
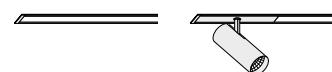
recessed

80

wallwasher
84

wallwasher
88

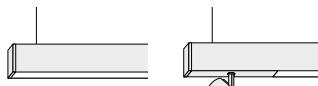


BO
intrack
**92**32
2/3 lamps
9645
2/3 lamps
9655
1/2 lamps
96
VARO
track
**102**80 S
104110 S
108
MILA
ceiling
**112**system
116
FRAME 40
recessed
trim**120**system
124system
130
MINO 40

ceiling

**120**system
128system
130

suspended

40 system
12840 system
130

Elegance on track



MOVE IT 10 system

EN MOVE IT 10 is a particularly slim track system. The dimmable low-voltage track, available as a recessed, surface-mounted, suspended or pole version, is impressive thanks to its unusually slender cross-section. Both the round and square forms have a clear width of only 10 mm. MOVE IT 10's design is minimalist. The insets' adapter are fully hidden in the track. The tracks are available in black, white and chrome (standard for the round version). They are connected by Corner or Curve elements for an edgy or softly rounded appearance. Extend MOVE IT 10 with various linear or design-oriented insets for maximum planning freedom for your interior concept.

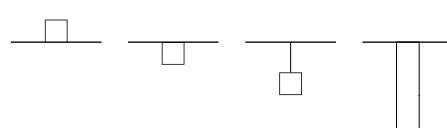
ES Un carril electrificado ultrafino: eso es MOVE IT 10. Este sistema de carril atenuable de baja tensión está disponible en variantes empotrables, suspendidas, de montaje en superficie o de poste, y destaca por su sección extraordinariamente delgada: ya sea en forma redonda o rectangular, su anchura mínima es de tan solo 10 mm. El diseño minimalista continúa en los adaptadores que desaparecen por completo en los carriles, los cuales están disponibles en los colores negro, blanco y cromo (en la variante redonda) y se conectan con elementos Corner o Curve para formar esquinas bien definidas o curvas suaves. MOVE IT 10 puede ampliarse con distintos insertos lineales o adaptados al diseño específico para ofrecer la máxima libertad de planificación en cualquier diseño interior.

Types



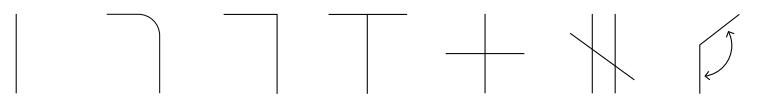
square round

Mountings



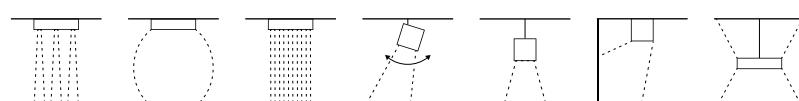
recessed surface suspended pole

Configurations



linear curve L-connector T-connector X-connector level connector ceiling to wall connector

Light distributions



spot line opal darklight spotlight decorative wallwasher floor direct indirect

Mounting options

EN Depending on the desired appearance and installation, the 48 V track system is available as a trimless recessed-mounted, surface-mounted, suspended or pole version.

ES En función del aspecto y el montaje deseados, el sistema de carril electrificado de 48V está disponible en una variante empotrable sin marco, en una versión de superficie, en un modelo suspendido y como variante de poste.



Create individual arrangements

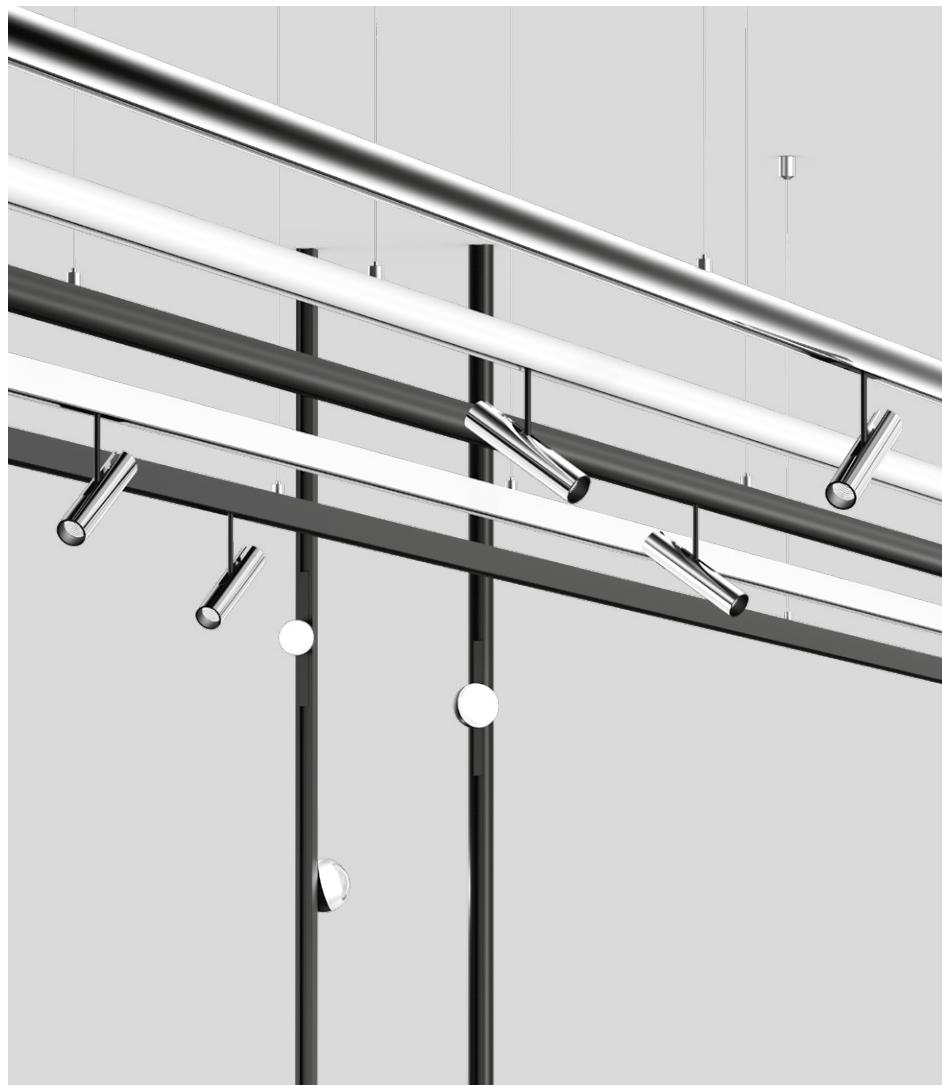
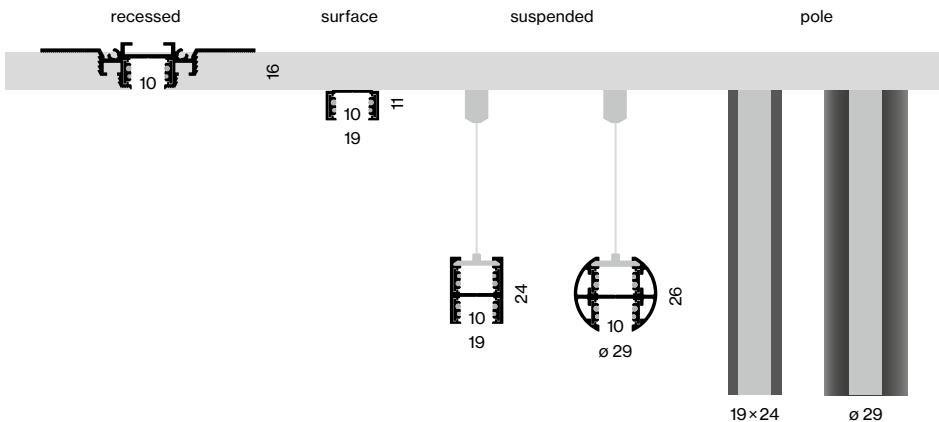
EN Let your creativity run wild and arrange MOVE IT 10 at will. Special Curve and Corner elements enable the straight tracks to be connected to form harmonious curves or precise corners. Since all elements fit together, you can configure your ideal bespoke system.

ES Dé rienda suelta a su creatividad y configure el sistema MOVE IT 10 del modo que prefiera. Los elementos especiales Curve y Corner permiten combinar los carriles rectilíneos formando curvas armoniosas o esquinas de trazado preciso. Dado que todos los elementos encajan unos con otros, podrá configurar el sistema de manera personalizada adaptándolo a sus deseos y al espacio disponible.

Track shapes

EN In both the round and square form, the track opens options for flexible application. Their track diameter is only 29 mm, presenting a reduced and sleek appearance. Many insets offer an optional flush adapter to create an even, visually calm ceiling appearance.

ES El carril electrificado ofrece posibilidades de uso flexibles en sus formas redonda y rectangular. Su limitado diámetro de hasta 29 mm le confiere una apariencia minimalista de gran calidad. Numerosos insertos luminosos cuentan con un adaptador embutido que genera un patrón de techo plano y tranquilo desde el punto de vista visual.



Colour variety

EN The tracks are available in the colours black and white, delivering discreet elegance. The round track comes additionally in chrome. In addition, for some insets you have the choice between the trend colours chrome, rose gold, gun metal, brushed aluminium and brushed brass.

ES Elegancia discreta: los carriles electrificados están disponibles en los colores negro y blanco. El carril redondo también se ofrece en cromo. Además, algunos insertos están disponibles en los colores especiales cromo, Rosé Gold, Gun Metal, aluminio cepillado y latón cepillado.

Installation tracks

recessed	square	<input checked="" type="radio"/>
surface	square	<input type="radio"/>
suspended	square	<input type="radio"/>
suspended	round	<input type="radio"/>
pole	square	<input type="radio"/>
pole	round	<input type="radio"/>

Decorative insets

GIRA	<input type="radio"/>	<input checked="" type="radio"/>
NOBA	<input type="radio"/>	<input checked="" type="radio"/>
TARO	<input type="radio"/>	<input checked="" type="radio"/>
TILO	<input type="radio"/>	<input checked="" type="radio"/>



white



black



brushed aluminium



gun metal



brushed brass



chrome



rose gold

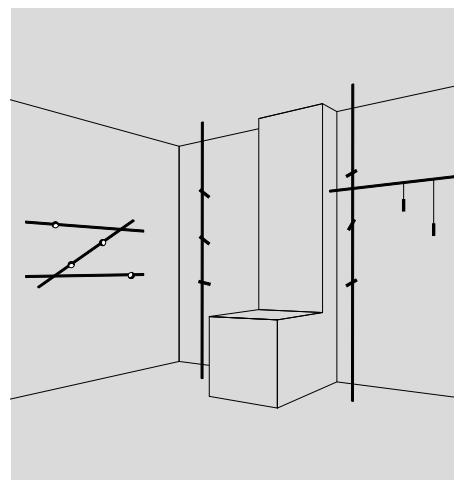
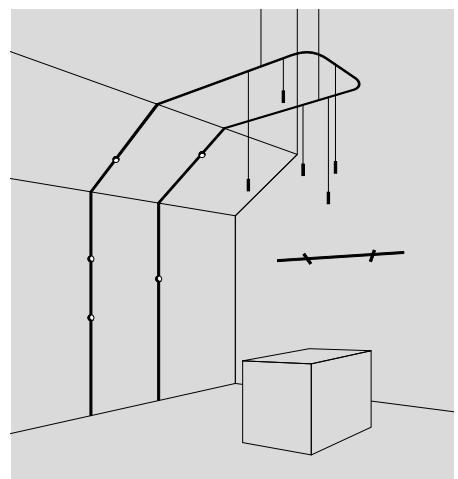
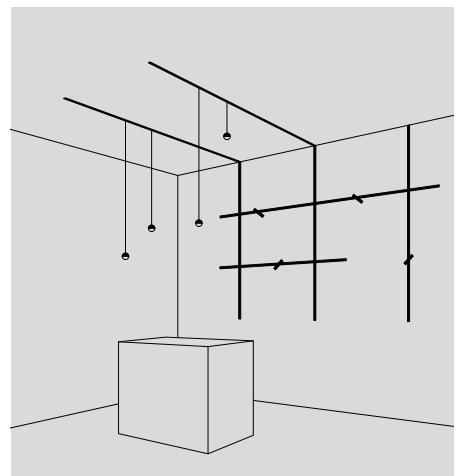




Mounting variety

EN With precise corners or harmonious curves, the MOVE IT 10 system sets no limits to creativity. Elegant insets for different applications make the track system even more flexible.

ES Ya se trate de definir esquinas precisas o de crear curvas armoniosas, el sistema MOVE IT 10 no pone límites a su creatividad. Los insertos elegantes para diferentes aplicaciones hacen que el sistema de carril sea aún más flexible en el uso.







Connector overview

EN A large selection of different connectors – in L-, T-, X-shape – provides even more flexibility. With the Ceiling to Wall Connector, roof slopes with different angles can also be realised.

ES La amplia variedad de conectores distintos –en forma de L, T o X– proporciona aún mayor flexibilidad. Con el conector Ceiling to Wall es posible crear además inclinaciones de techo a ángulos distintos.

1 Linear Connector



2 L-Connector



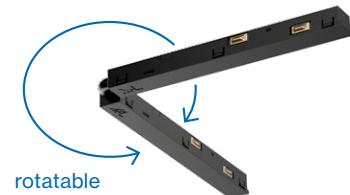
3 T-Connector



4 X-Connector



5 Flex Connector



6 Ceiling to Wall Connector



7 Level Connector



8 Pass Through Connector

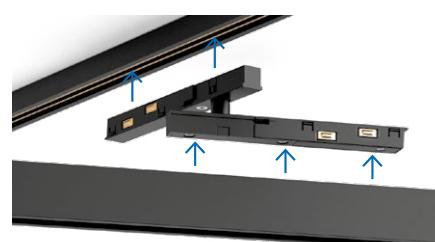


EN With the Level Connector, two tracks that are placed on top of each other can now be mechanically and electrically connected to each other. This creates new application possibilities.

ES El conector Level permite conectar mecánica y eléctricamente entre sí dos carriles que discurren el uno sobre el otro. Esto ofrece posibilidades de uso nuevas y fascinantes.

EN With the Pass Through Connector (patent pending) the direct and indirect light insets in the H-track can be electrically connected to each other.

ES Con el conector «pass-through» –en espera de patente– es posible conectar entre sí eléctricamente los insertos de luz directa e indirecta en el carril H.



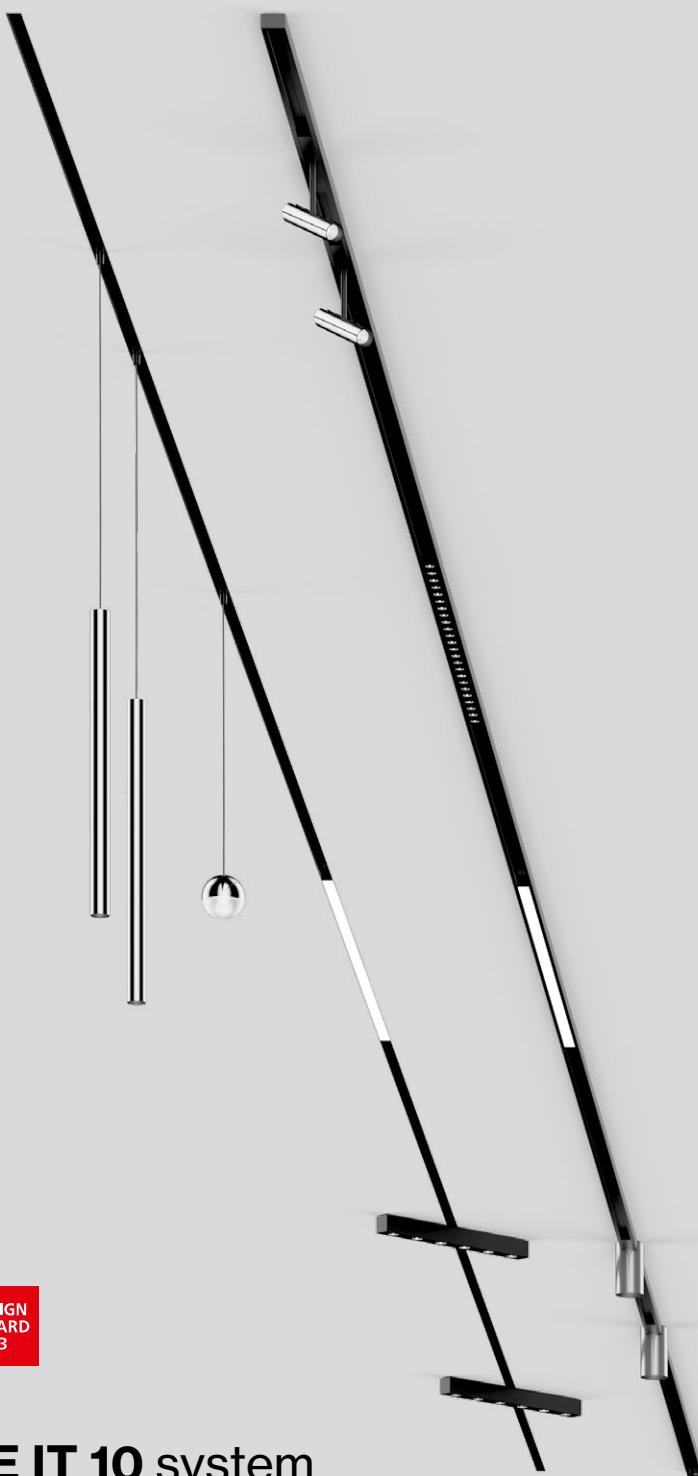


MOVE IT 10 system

recessed trimless/surface

EN Thin extruded aluminium profile with 16 mm (trimless) or 11mm (surface) height and 10 mm width groove; optionally for trimless installation in plasterboard ceilings (wall or ceiling mounting) with 12.5 mm ceiling thickness; MOVE IT 10 trimless profile with processing protection against penetration of filler; or for wall-/ceiling surface mounting; designed for continuous lighting systems; flexible system design through L, T or X connectors or by means of FLEX or LEVEL connectors; with integrated power track profile for take off of supply voltage and DALI-2 signal; surface anodised or powder coated; insets can be installed flexibly and without tools by means of clip mount

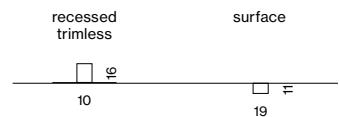
ES Perfil bajo de aluminio extruido con 16 mm (trimless) o 11mm (surface) de altura y 10 mm de anchura de junta; disponible para el encastre sin bordes en techos de cartón yeso (montaje en pared o techo) de 12,5 mm de espesor; perfil MOVE IT 10 trimless con protección contra la penetración de masilla; o para montaje sobre pared/techo; diseñado para la creación de sistemas continuos; montaje flexible del sistema con conectores en forma de L, T o X y conectores FLEX o LEVEL; con perfil de rail electrificado integrado para la recepción de la tensión de alimentación y DALI-2; superficie anodizada o recubierta de polvo; montaje flexible y sin herramienta de los insertos con cierre de clip



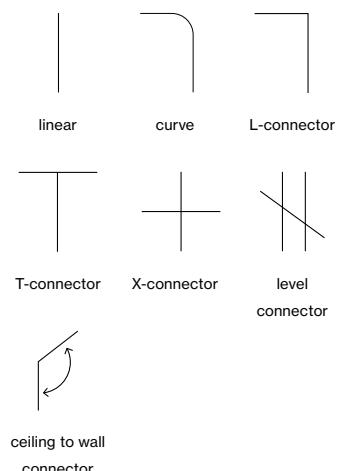
Quickinfo

2700K, 3000K, 4000K
CRI ≥ 90
L90 @ 50 000h
DALI-2

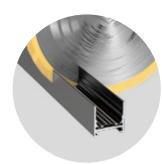
Types



Configurations



Colours



custom cut on
building site

Order options

CONTROL

DALI-2

MATERIAL COLOUR

<input checked="" type="checkbox"/> traffic white RAL 9016	7
<input checked="" type="checkbox"/> jet black RAL 9005	8

Options on request

CONNECTOR

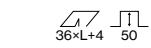
T connector mechanical

T connector electrical

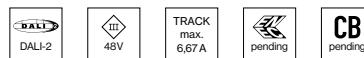
X connector mechanical

X connector electrical

only for recessed trimless



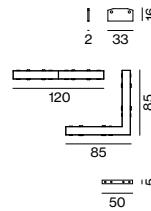
MOVE IT 10 trimless



INSTALLATION TRACK

L (mm)		ORDER CODE
1100	channel	0 3 0 - 1 1 1 3 0 3 8
2100	channel	0 3 0 - 1 1 1 5 0 3 8
3100	channel	0 3 0 - 1 1 1 7 0 3 8
custom cut	channel	E 8 3 6 1 0 . . . 8

*incl. plasterin protection cover

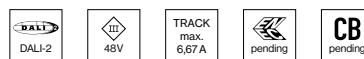


END CAPS/CONNECTORS

TYPE		ORDER CODE
end caps (pair)		0 3 0 - 1 1 2 0 0 1 8
linear connector electrical		0 3 0 - 2 1 0 1 1 3 <input checked="" type="checkbox"/>
L connector electrical		0 3 0 - 2 1 1 1 1 3 <input checked="" type="checkbox"/>
linear connector mechanical		0 3 0 - 1 1 3 4 0 1 8
L connector mechanical		0 3 0 - 1 1 3 5 0 1 8

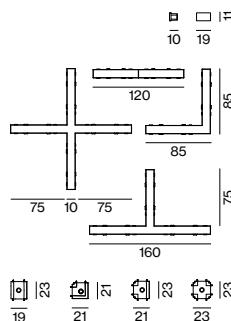
more electrical and mechanical connectors see p. 19

MOVE IT 10 surface



INSTALLATION TRACK

L (mm)		ORDER CODE
1100	channel	0 3 0 - 1 2 1 3 0 3 <input checked="" type="checkbox"/>
2100	channel	0 3 0 - 1 2 1 5 0 3 <input checked="" type="checkbox"/>
3100	channel	0 3 0 - 1 2 1 7 0 3 <input checked="" type="checkbox"/>
custom cut	channel	E 8 3 6 2 0 . . . <input checked="" type="checkbox"/>
R 300	curve channel	0 3 0 - 1 2 3 1 0 3 <input checked="" type="checkbox"/>
R 500	curve channel	0 3 0 - 1 2 3 2 0 3 <input checked="" type="checkbox"/>



END CAPS/CONNECTORS

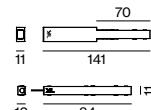
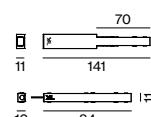
TYPE		ORDER CODE
end caps (pair)		0 3 0 - 1 2 2 0 0 1 <input checked="" type="checkbox"/>
linear connector electrical		0 3 0 - 2 1 0 1 1 3 <input checked="" type="checkbox"/>
L connector electrical		0 3 0 - 2 1 1 1 1 3 <input checked="" type="checkbox"/>
T connector electrical		0 3 0 - 2 1 2 1 1 3 <input checked="" type="checkbox"/>
X connector electrical		0 3 0 - 2 1 3 1 1 3 <input checked="" type="checkbox"/>
linear connector mechanical		0 3 0 - 1 2 3 4 0 1 <input checked="" type="checkbox"/>
L connector mechanical		0 3 0 - 1 2 3 5 0 1 <input checked="" type="checkbox"/>
T connector mechanical		0 3 0 - 1 2 3 6 0 1 <input checked="" type="checkbox"/>
X connector mechanical		0 3 0 - 1 2 3 7 0 1 <input checked="" type="checkbox"/>

more electrical and mechanical connectors see p. 19

Accessories

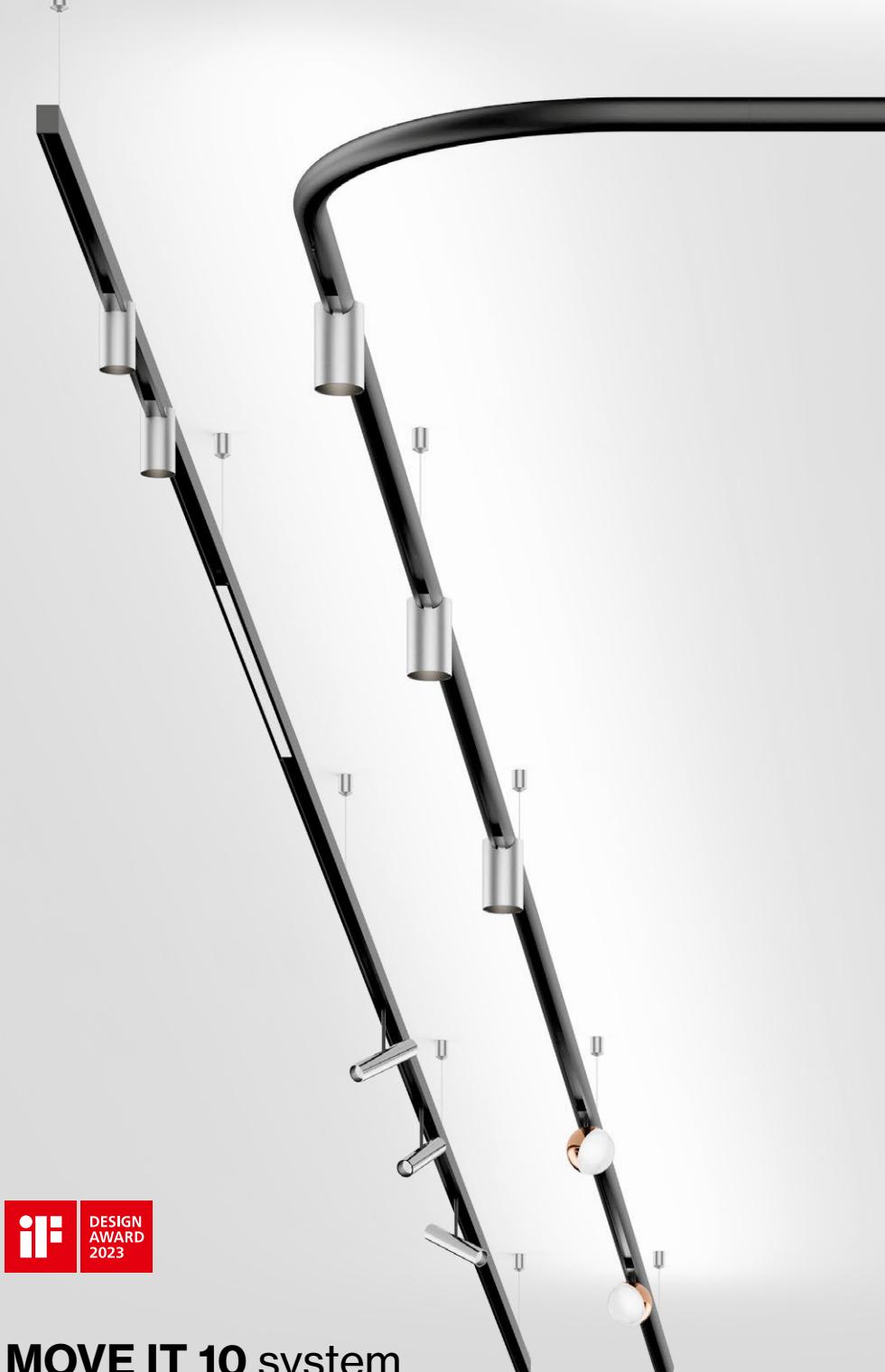
BLIND COVER

L (mm)		ORDER CODE
1100	blind cover	0 3 0 - 1 0 0 3 0 1 <input checked="" type="checkbox"/>
2100	blind cover	0 3 0 - 1 0 0 5 0 1 <input checked="" type="checkbox"/>
3100	blind cover	0 3 0 - 1 0 0 7 0 1 <input checked="" type="checkbox"/>
custom cut	blind cover	E 8 3 6 0 0 . . . <input checked="" type="checkbox"/>



ELECTRICAL ACCESSORIES

TYPE		ORDER CODE
power feeder (only for surface)		0 3 0 - 2 5 2 3 0 3 <input checked="" type="checkbox"/>
internal power feeder (incl. cable 2000 mm)		0 3 0 - 2 5 2 5 0 3 <input checked="" type="checkbox"/>



MOVE IT 10 system

suspended

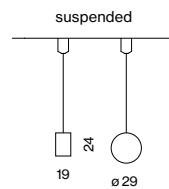
EN Thin extruded aluminium profile with 10 mm width groove; choice of angular (38 mm height) or tubular (28 mm height) design; for suspended mounting (cable suspension, height adjustment without tools, incl. black feed); with integrated power track profile on both sides for take off of supply voltage and DALI-2 signal; power supply and DALI-2 signal for both power tracks with only one feed by means of pass-through connector; designed for continuous lighting systems; flexible system design through L, T or X connectors or by means of LEVEL connectors; surface anodised or powder coated; insets can be installed flexibly and without tools by means of clip mount

ES Perfil bajo de aluminio extruido con 10 mm de anchura de junta; disponible en forma angular (38 mm de altura) o tubular (28 mm de altura); para montaje suspendido (suspensión por cable, ajuste de altura sin herramienta, cable de alimentación negro incluido); con perfil de carril electrificado incorporado en ambos lados para la toma de suministro eléctrico y señal DALI-2; suministro eléctrico y señal DALI-2 para ambos carriles electrificados con una sola toma de alimentación mediante conector pass-through; diseñado para la creación de sistemas continuos; montaje flexible del sistema con conectores en forma de L, T o X y conectores LEVEL; superficie anodizada o recubierta de polvo; montaje flexible y sin herramienta de los insertos con cierre de clip

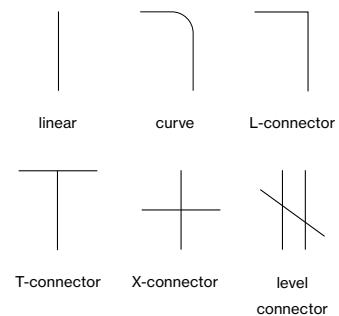
Quickinfo

2700K, 3000K, 4000K
CRI ≥ 90
L90 @ 50 000 h
DALI-2

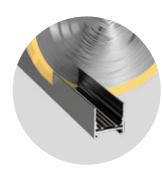
Types



Configurations



Colours



custom cut on building site

Order options

CONTROL

DALI-2

MATERIAL COLOUR

<input type="checkbox"/> traffic white RAL 9016	7
<input checked="" type="checkbox"/> jet black RAL 9005	8

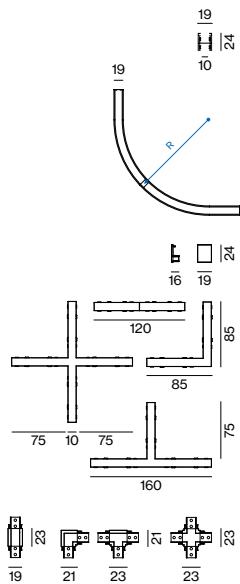
MATERIAL COLOUR CABLE SUSPENSION

<input type="checkbox"/> chrome	4
<input checked="" type="checkbox"/> jet black RAL 9005	8

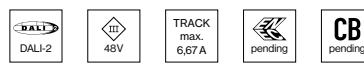
Options on request

MATERIAL COLOUR MOVE IT 10 ROUND

<input type="checkbox"/> chrome



MOVE IT 10 square suspended



INSTALLATION TRACK

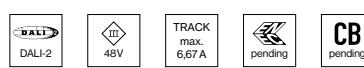
L (mm)	TYPE	ORDER CODE
1100	channel	030-131303
2100	channel	030-131503
3100	channel	030-131703
custom cut	channel	E83630
R 300	curve channel	030-133103
R 500	curve channel	030-133203

END CAPS/CONNECTORS

TYPE	ORDER CODE
end caps (pair)	030-132001
linear connector electrical	030-210113
L connector electrical	030-211113
T connector electrical	030-212113
X connector electrical	030-213113
linear connector mechanical	030-133401
L connector mechanical	030-133501
T connector mechanical	030-133601
X connector mechanical	030-133701

more electrical and mechanical connectors see page 19

MOVE IT 10 round suspended



INSTALLATION TRACK

L (mm)	TYPE	ORDER CODE
1100	channel	030-141303
2100	channel	030-141503
3100	channel	030-141703
custom cut	channel	E83640
R 300	curve channel	030-143103
R 500	curve channel	030-143203

END CAPS/CONNECTORS

TYPE	ORDER CODE
end caps (pair)	030-142001
linear connector electrical	030-210113
L connector electrical	030-211113
T connector electrical	030-212113
X connector electrical	030-213113
linear connector mechanical	030-143401
L connector mechanical	030-143501
T connector mechanical	030-143601
X connector mechanical	030-143701

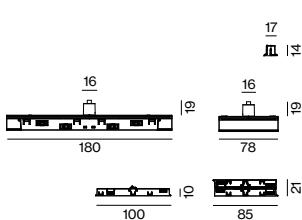
more electrical and mechanical connectors see page 19

Accessories

BLIND COVER see page 17

INDIRECT LIGHT INSET see page 17

CABLE SUSPENSION / CANOPY / ELECTRICAL ACCESSORIES



TYPE	L (mm)	ORDER CODE
cable suspension	1500	030-223001
cable susp. linear connector	1500	030-221001
cable susp. linear conn. electrical	1500	030-222001
canopy square	90-90-22	005-231121
canopy round	ø90-22	005-260003
internal power feeder (incl. cable 2000 mm)		030-252503
pass through connector electrical (pair)		030-217113

more electrical and mechanical connectors see page 19



MOVE IT 10 system

pole

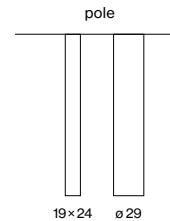
EN Thin extruded aluminium profile with 10 mm width groove; choice of angular (38 mm height) or tubular (28 mm height) design; for vertical and horizontal mounting; easy installation of the mounting set, incl. feed; with integrated power track profile on both sides for take off of supply voltage and DALI-2 signal; power supply and DALI-2 signal for both power tracks with only one feed by means of pass-through connector; designed for continuous lighting systems; flexible system design through L, T or X connectors or by means of LEVEL connectors; surface anodised or powder coated; insets can be installed flexibly and without tools by means of clip mount

ES Perfil bajo de aluminio extruido con 10 mm de anchura de junta; disponible en forma angulosa (38 mm de altura) o tubular (28 mm de altura); para montaje en vertical y en horizontal; instalación sencilla del kit de montaje, incl. toma de alimentación; con perfil de carril electrificado incorporado en ambos lados para la toma de suministro eléctrico y señal DALI-2; suministro eléctrico y señal DALI-2 para ambos carriles electrificados con una sola toma de alimentación mediante conector pass-through; diseñado para la creación de sistemas continuos; montaje flexible del sistema con conectores en forma de L, T o X y conectores LEVEL; superficie anodizada o recubierta de polvo; montaje flexible y sin herramienta de los insertos con cierre de clip

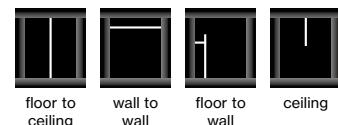
Quickinfo

2700K, 3000K, 4000K
CRI ≥ 90
L90 @ 50 000 h
DALI-2

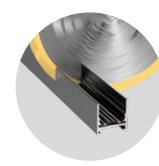
Types



Mounting types



Colours



custom cut on building site

Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5
4000K	6

CONTROL	
DALI-2	

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

Options on request

MATERIAL COLOUR	
MOVE IT 10 ROUND	
● chrome	

MOVE IT 10 square pole



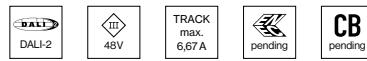
INSTALLATION TRACK

L (mm)		ORDER CODE
1100	channel	0 3 0 - 1 3 1 3 0 3 <input checked="" type="checkbox"/>
2100	channel	0 3 0 - 1 3 1 5 0 3 <input checked="" type="checkbox"/>
3100	channel	0 3 0 - 1 3 1 7 0 3 <input checked="" type="checkbox"/>
custom cut	channel	E 8 3 6 3 0 . . . <input checked="" type="checkbox"/>

MOUNTING SET

TYPE		ORDER CODE
floor to ceiling set (pair)		0 3 0 - 1 3 4 1 0 1 <input checked="" type="checkbox"/>
wall to wall set (pair)		0 3 0 - 1 3 4 1 0 1 <input checked="" type="checkbox"/>
floor to wall set (wall bracket 400 mm incl. end cap)		0 3 0 - 1 3 4 2 0 1 <input checked="" type="checkbox"/>
ceiling set (incl. end cap)		0 3 0 - 1 3 4 3 0 1 <input checked="" type="checkbox"/>

MOVE IT 10 round pole



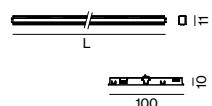
INSTALLATION TRACK

L (mm)		ORDER CODE
1100	channel	0 3 0 - 1 4 1 3 0 3 <input checked="" type="checkbox"/>
2100	channel	0 3 0 - 1 4 1 5 0 3 <input checked="" type="checkbox"/>
3100	channel	0 3 0 - 1 4 1 7 0 3 <input checked="" type="checkbox"/>
custom cut	channel	E 8 3 6 4 0 . . . <input checked="" type="checkbox"/>

MOUNTING SET

TYPE		ORDER CODE
floor to ceiling set (pair)		0 3 0 - 1 4 4 1 0 1 <input checked="" type="checkbox"/>
wall to wall set (pair)		0 3 0 - 1 4 4 1 0 1 <input checked="" type="checkbox"/>
floor to wall set (wall bracket 400 mm incl. end cap)		0 3 0 - 1 4 4 2 0 1 <input checked="" type="checkbox"/>
ceiling set (incl. end cap)		0 3 0 - 1 4 4 3 0 1 <input checked="" type="checkbox"/>

LIGHT INSET 10



INDIRECT incl. feeder

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15 W	2700K	1370lm	1000	0 3 0 - 6 3 3 0 :: 3 8 B
	3000K	1450lm		
	4000K	1530lm		
30 W	2700K	2750lm	2000	0 3 0 - 6 3 7 0 :: 3 8 B
	3000K	2900lm		
	4000K	3050lm		

Accessories

BLIND COVER

L (mm)		ORDER CODE
1100	blind cover	0 3 0 - 1 0 0 3 0 1 <input checked="" type="checkbox"/>
2100	blind cover	0 3 0 - 1 0 0 5 0 1 <input checked="" type="checkbox"/>
3100	blind cover	0 3 0 - 1 0 0 7 0 1 <input checked="" type="checkbox"/>
custom cut	blind cover	E 8 3 6 0 0 . . . <input checked="" type="checkbox"/>

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

ELECTRICAL ACCESSORIES

TYPE		ORDER CODE
internal power feeder (incl. cable 2000 mm)		0 3 0 - 2 5 2 5 0 3 <input checked="" type="checkbox"/>
pass through connector electrical (pair)		0 3 0 - 2 1 7 1 1 3 <input checked="" type="checkbox"/>



ELECTRICAL accessories

MOVE IT 10 system

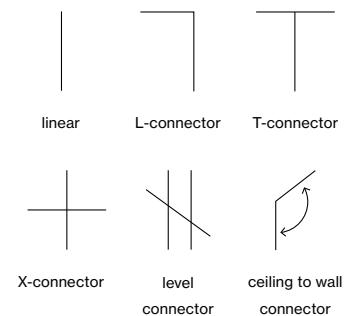
EN Mechanical and electrical connectors to MOVE IT 10 system; in L-, T- or X-shape; or FLEX, CEILING TO WALL or LEVEL connectors, as well as PASS THROUGH connectors; for flexible system design; different converters for the entire MOVE IT system

ES Conectores mecánicos y eléctricos para MOVE IT 10 system; en forma de L, T o X; o conectores FLEX, CEILING TO WALL, LEVEL, y PASS-THROUGH; para el montaje flexible del sistema; diferentes drivers para todo el sistema MOVE IT

Types

- ① Linear Connector
- ② L-Connector
- ③ T-Connector
- ④ X-Connector
- ⑤ Flex Connector
- ⑥ Ceiling to Wall Connector
- ⑦ Level Connector
- ⑧ Pass Through Connector

Configurations



Colours



Order options

CONNECTOR MECHANICAL

recessed*	1
surface	2
suspended square	3
suspended round	4

*T- and X-connector on request

CONTROL

DALI-2	
--------	--

MATERIAL COLOUR

<input type="radio"/> traffic white* RAL 9016	7
<input checked="" type="radio"/> jet black RAL 9005	8

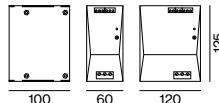
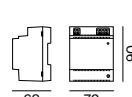
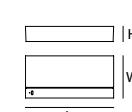
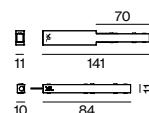
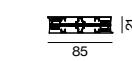
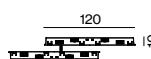
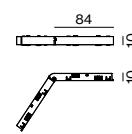
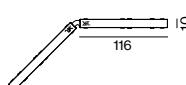
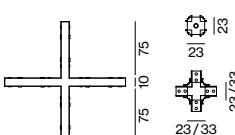
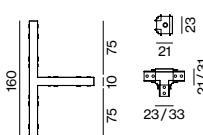
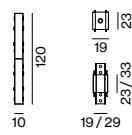
*not for mechanical recessed trimless

Options on request

CONNECTOR

T connector electrical	
T connector mechanical	
X connector electrical	
X connector mechanical	

only for recessed trimless



Electrical accessories

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector electrical	0 3 0 - 2 1 0 1 1 3 <input checked="" type="checkbox"/>
linear connector mechanical	0 3 0 - 1 T 3 4 0 1 <input checked="" type="checkbox"/>

L CONNECTOR

TYPE	ORDER CODE
L connector electrical	0 3 0 - 2 1 1 1 1 3 <input checked="" type="checkbox"/>
L connector mechanical	0 3 0 - 1 T 3 5 0 1 <input checked="" type="checkbox"/>

T CONNECTOR

TYPE	ORDER CODE
T connector electrical	0 3 0 - 2 1 2 1 1 3 <input checked="" type="checkbox"/>
T connector mechanical	0 3 0 - 1 T 3 6 0 1 <input checked="" type="checkbox"/>

X CONNECTOR

TYPE	ORDER CODE
X connector electrical	0 3 0 - 2 1 3 1 1 3 <input checked="" type="checkbox"/>
X connector mechanical	0 3 0 - 1 T 3 7 0 1 <input checked="" type="checkbox"/>

FLEX CONNECTOR

TYPE	ORDER CODE
flex connector electrical	0 3 0 - 2 1 4 1 1 3 <input checked="" type="checkbox"/>

CEILING TO WALL CONNECTOR

TYPE	ORDER CODE
ceiling to wall connector electrical	0 3 0 - 2 1 6 1 1 3 <input checked="" type="checkbox"/>

LEVEL CONNECTOR

TYPE	ORDER CODE
level connector electrical	0 3 0 - 2 1 5 1 1 3 <input checked="" type="checkbox"/>

PASS THROUGH CONNECTOR

TYPE	ORDER CODE
pass through connector electrical (pair)	0 3 0 - 2 1 7 1 1 3 <input checked="" type="checkbox"/>

electrical connection from direct to indirect and vice versa

POWER FEEDER

TYPE	ORDER CODE
power feeder (only for surface)	0 3 0 - 2 5 2 3 0 3 <input checked="" type="checkbox"/>
internal power feeder (incl. cable 2000 mm)	0 3 0 - 2 5 2 5 0 3 <input checked="" type="checkbox"/>

POWER SUPPLY EXTERNAL supply 220-240 V AC, 48 V, 50-60 Hz

TYPE	EFFICIENCY	MOUNTING	L-W-H (mm)	ORDER CODE
60W <input type="checkbox"/> PC II	η 88%	external	163-43-32	0 0 2 - 6 2 1 3 3
150W <input type="checkbox"/> PC II	η 92%	external	350-30-18	0 0 2 - 6 2 1 3 5
250W <input type="checkbox"/> PC II	η 93%	external	400-40-22	0 0 2 - 6 2 1 3 9

ENEC approved, incl. feeder cable 2000 mm

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% / > 100.000 h	72-90-63	0 0 5 - 6 5 2 0 2 1 0

DIN RAIL POWER SUPPLY PRO 48V

220-240V | 50-60Hz | PC II | 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% / > 400.000 h	60-125-100	0 0 5 - 6 2 2 0 1 1 0
480W	η 93% / > 350.000 h	120-125-100	0 0 5 - 6 2 2 0 2 1 0



SPOT LINE / OPAL / DARKLIGHT

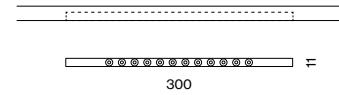
linear inset 10

Quickinfo

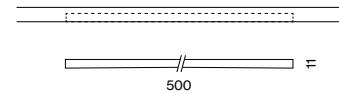
2700 K, 3000 K, 4000 K
CRI ≥ 90
up to 105 lm/W
DALI-2

Types

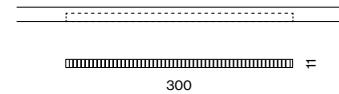
spot line



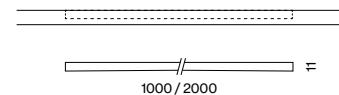
opal



darklight



indirect



Colour



Light distributions



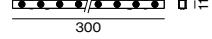
indirect



flush
mounted

Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5
4000K	6



CONTROL
DALI-2

MATERIAL COLOUR

jet black RAL 9005

LIGHT OPTIC

spot line
opal high performance
darklight
indirect

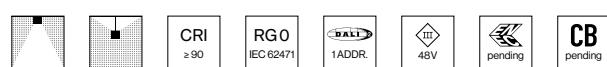


LIGHT INSET 10



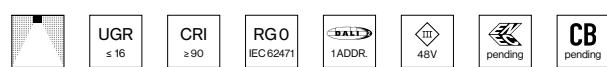
SPOT LINE

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
8.5W	2700K	420lm	300	0 3 0 - 6 1 1 0 :: 3 8 M
	3000K	460lm		
	4000K	480lm		



OPAL HIGH PERFORMANCE

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5W	2700K	520lm	500	0 3 0 - 6 1 2 0 :: 3 8 H
	3000K	520lm		
	4000K	525lm		

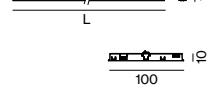


DARKLIGHT

INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
5.7W	2700K	280lm	300	0 3 0 - 6 2 1 0 :: 3 8 M
	3000K	280lm		
	4000K	285lm		



INDIRECT incl. feeder



INS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
15W	2700K	1370lm	1000	0 3 0 - 6 3 3 0 :: 3 8 M
	3000K	1450lm		
	4000K	1530lm		
30W	2700K	2750lm	2000	0 3 0 - 6 3 7 0 :: 3 8 M
	3000K	2900lm		
	4000K	3050lm		

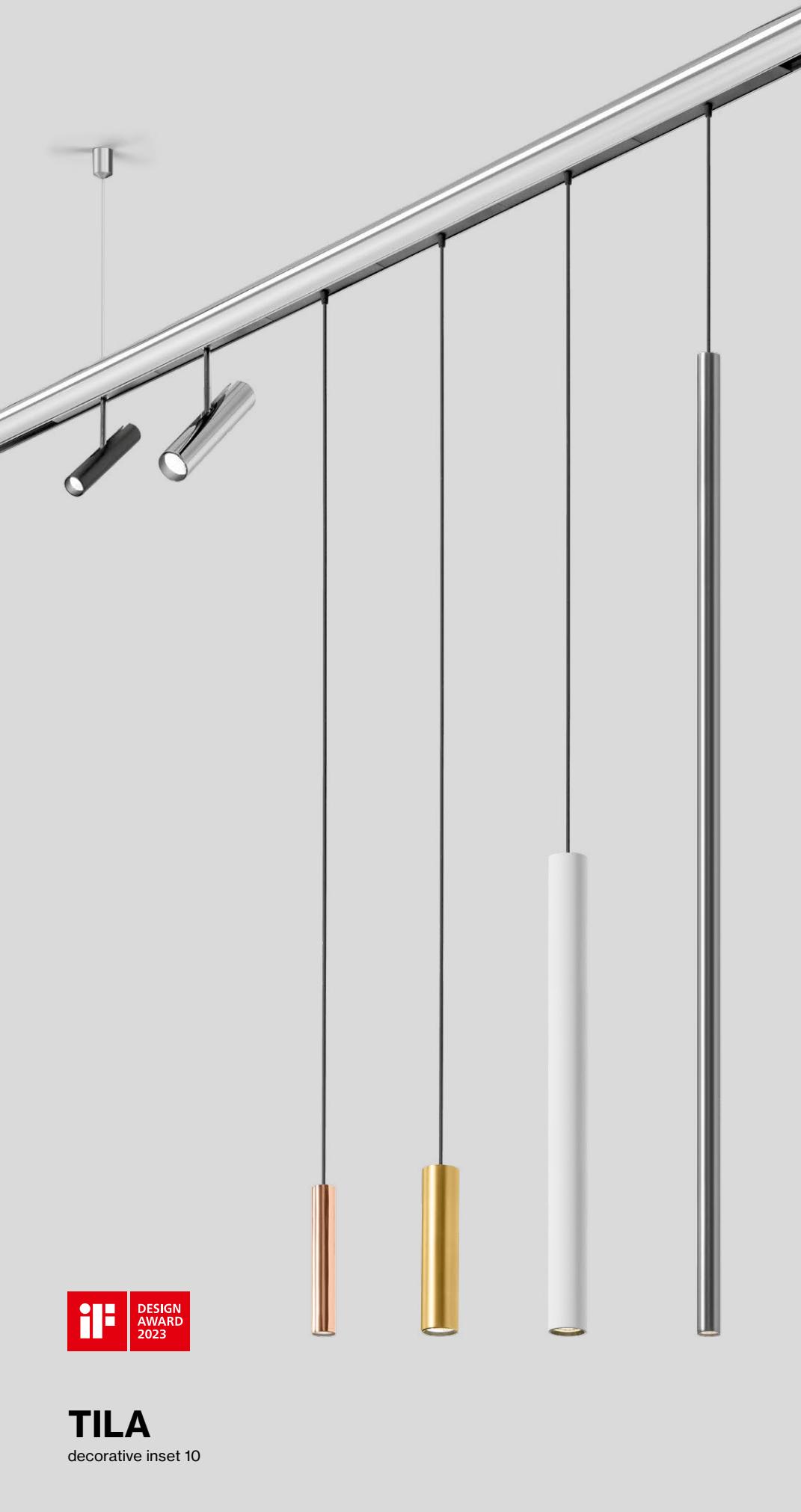
INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour black

Private Residence

Visualisation





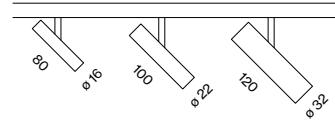


Quickinfo

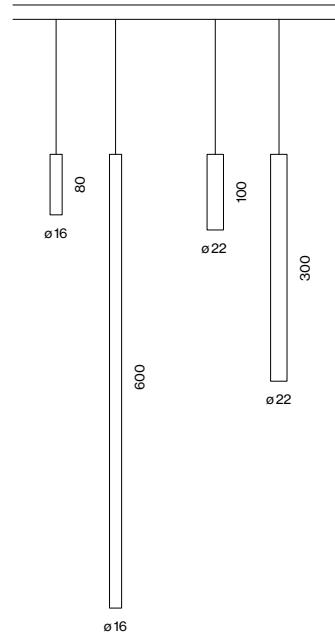
2700 K, 3000 K, 4000 K
CRI ≥ 90
up to 81 lm/W
DALI-2

Types

adjustable rod



suspended



Colours



Light distributions

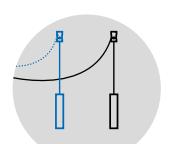
TILA 16



TILA 22/32



360° rotatable
135° tiltable



free positioning by
cable and hook



flush adapter
mounting

Order options

HOUSING HEIGHT TILA 16	L
80 mm	0
600 mm	1

HOUSING HEIGHT TILA 22	L
100 mm	3
300 mm	4

COLOUR TEMPERATURE	OO
2700K	4
3000K	5
4000K	6

CONTROL	
DALI-2	

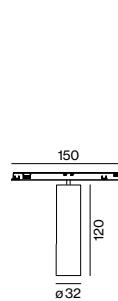
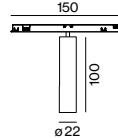
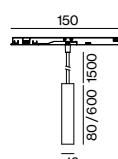
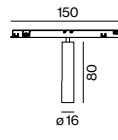
MATERIAL COLOUR	■
○ traffic white RAL 9016	7
● jet black RAL 9005	8
● brushed aluminium	6
● chrome	4

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

BEAM ANGLE TILA 16	▲
medium 20°	M
flood 40°	F

BEAM ANGLE TILA 22/32	▲
spot 14°	S
medium 24°	M
flood 45°	F

Options on request	
MATERIAL COLOUR	
● gun metal	
● brushed brass	
● rose gold	



TILA 16



ADJUSTABLE

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	230lm	0 3 0 - 6 5 0 0 :: 3 □▲
	3000K	240lm	
	4000K	250lm	

SUSPENDED

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
5 W	2700K	230lm	0 3 0 - 6 6 L 0 :: 3 □▲
	3000K	240lm	
	4000K	250lm	

TILA 22



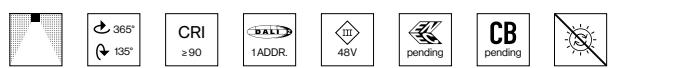
ADJUSTABLE

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10.5 W	2700K	415lm	0 3 0 - 6 5 3 0 :: 3 □▲
	3000K	440lm	
	4000K	460lm	

SUSPENDED

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10.5 W	2700K	415lm	0 3 0 - 6 6 L 0 :: 3 □▲
	3000K	440lm	
	4000K	460lm	

TILA 32



ADJUSTABLE

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11 W	2700K	720lm	0 3 0 - 6 5 6 0 :: 3 □▲
	3000K	850lm	
	4000K	900lm	

Mounting accessories



TYPE	Ø-H (mm)	ORDER CODE
hook	16-30	0 3 0 - 1 0 0 0 0 1 ■

Optical accessories

HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
TILA 22	20-3	0 0 7 - 1 9 6 5 1 1 8
TILA 32	30-3	0 0 7 - 1 9 6 5 1 6 8

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, medium

Jewellery Shop
Visualisation





Private Residence

Visualisation





Private Residence
Visualisation





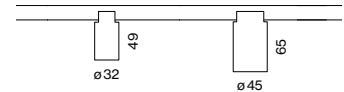


Quickinfo

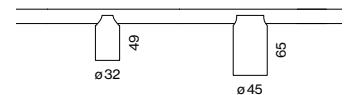
2700 K, 3000 K, 4000 K
CRI ≥ 90
up to 83 lm/W
DALI-2

Types

square track



round track



Colours



Light distributions

TARO 32



TARO 45



TARO

decorative inset 10



wallwasher floor
360° rotatable



wallwasher
floor

Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5
4000K	6

CONTROL	
DALI-2	

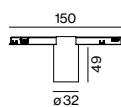
MATERIAL COLOUR	
○ traffic white RAL 9016	7
● jet black RAL 9005	8
● brushed aluminium	6
● chrome	4

BEAM ANGLE TARO 32	
spot 18°	S
medium 23°	M
flood 37°	F

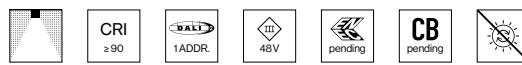
BEAM ANGLE TARO 45	
medium 24°	M
flood 39°	F

Options on request

MATERIAL COLOUR	
● gun metal	
● brushed brass	
● rose gold	

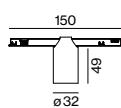


TARO 32



DOWNLIGHT SQUARE TRACK

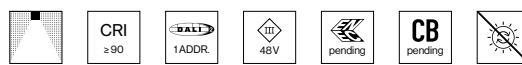
INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	2700K	720lm	0 3 0 - 6 7 0 0 :: 3 □▲
	3000K	860lm	
	4000K	900lm	



DOWNLIGHT ROUND TRACK

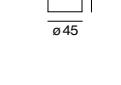
INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	2700K	720lm	0 3 0 - 6 7 4 0 :: 3 □▲
	3000K	860lm	
	4000K	900lm	

TARO 45



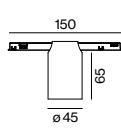
DOWNLIGHT SQUARE TRACK

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15W	2700K	1000lm	0 3 0 - 6 7 1 0 :: 3 □▲
	3000K	1100lm	
	4000K	1150lm	

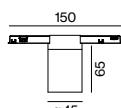
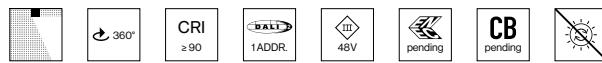


DOWNLIGHT ROUND TRACK

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
15W	2700K	1000lm	0 3 0 - 6 7 5 0 :: 3 □▲
	3000K	1100lm	
	4000K	1150lm	

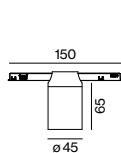


TARO 45 wallwasher floor



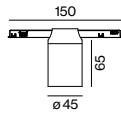
DOWNLIGHT SQUARE TRACK

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	2700K	530lm	0 3 0 - 6 7 8 0 :: 3 □W
	3000K	570lm	
	4000K	580lm	



DOWNLIGHT ROUND TRACK

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9W	2700K	530lm	0 3 0 - 6 7 9 0 :: 3 □W
	3000K	570lm	
	4000K	580lm	



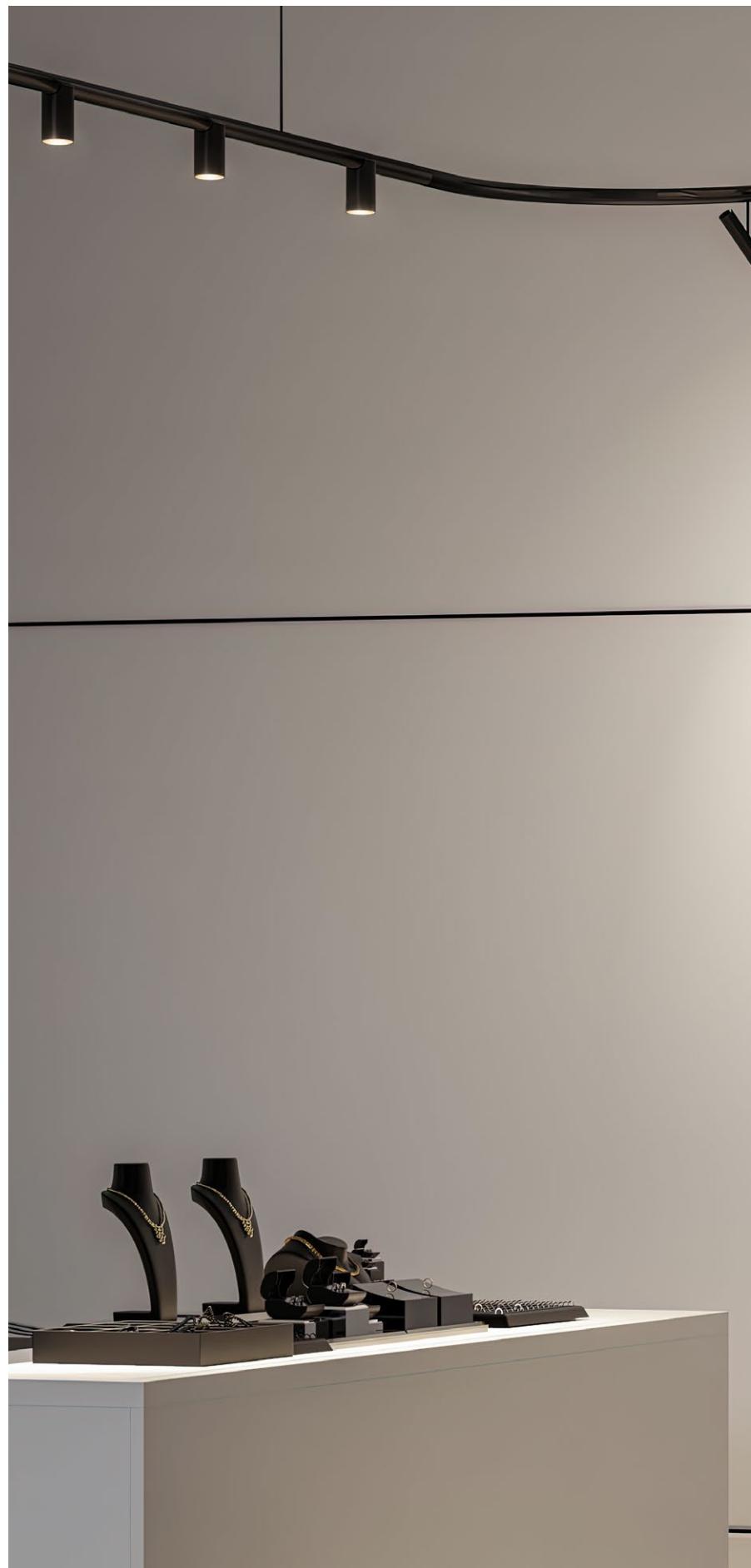
Optical accessories

HONEYCOMB LOUVER

TYPE	Ø-H (mm)	ORDER CODE
TARO 32	30·4	0 0 7 - 1 9 6 5 1 6 8
TARO 45	42·3	0 0 7 - 1 9 6 5 1 8 8

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour white, medium

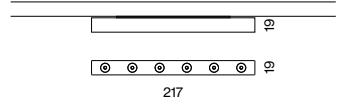
Jewellery Shop
Visualisation





**Quickinfo**

2700 K, 3000 K, 4000 K
CRI ≥ 90
up to 79 lm/W
DALI-2

Type**Colours****Light distributions****GIRA**

decorative inset 10

360°
rotatablewallwasher
floor

Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5
4000K	6

CONTROL	
DALI-2	

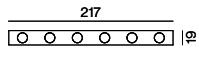
MATERIAL COLOUR	
○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE	
medium 20°	M
flood 40°	F

GIRA



DOWNLIGHT ROTATABLE

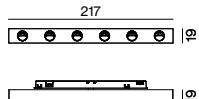


INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
19 W	2700K	1350lm	0 3 0 - 6 4 1 0 :: 3 □▲
	3000K	1400lm	
	4000K	1450lm	

GIRA wallwasher floor



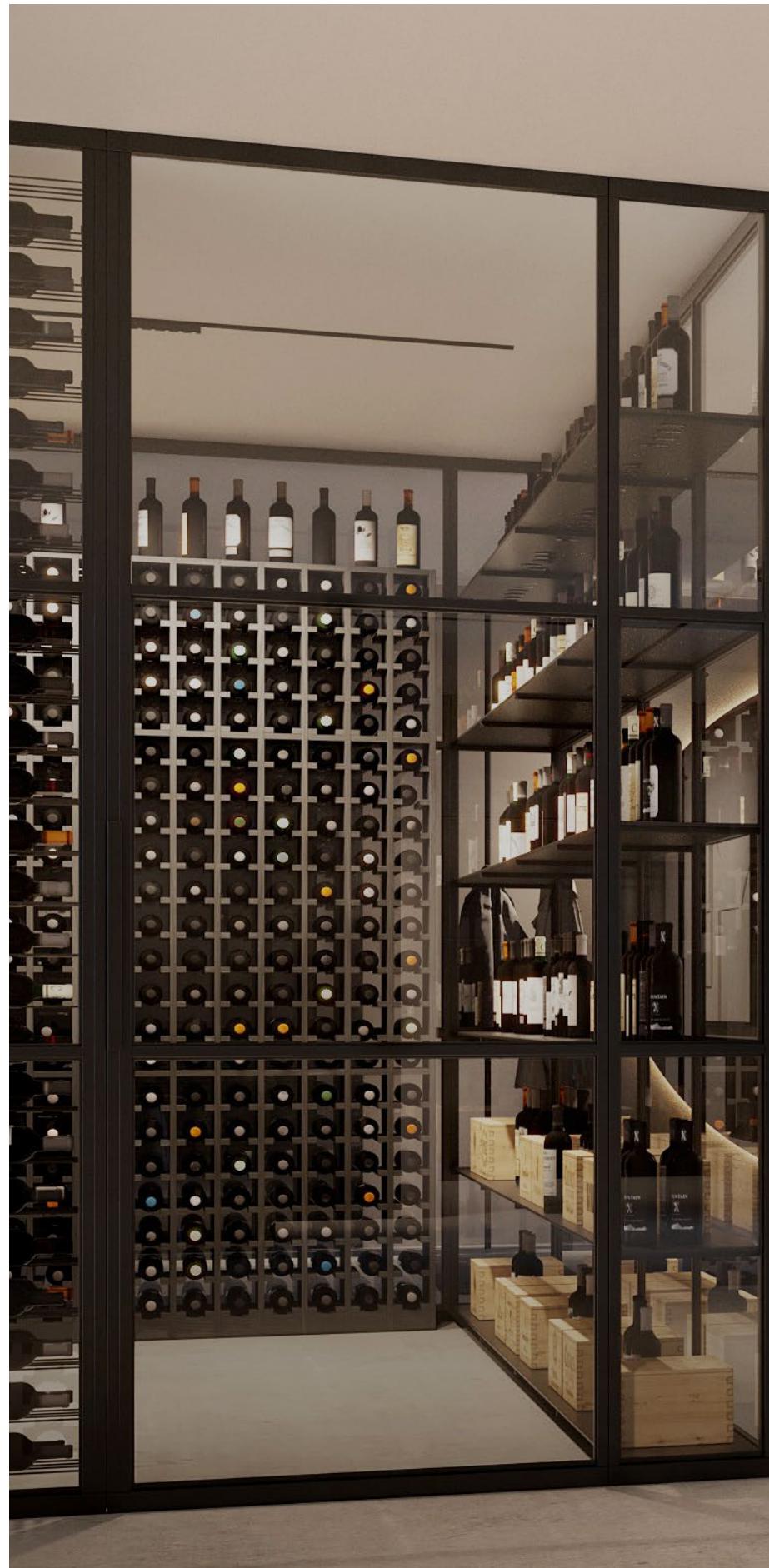
WALLWASHER FLOOR ROTATABLE



INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
11W	2700K	730lm	0 3 0 - 6 4 3 0 :: 3 □W
	3000K	770lm	
	4000K	800lm	

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI≥90, colour white, medium

Private Residence
Visualisation







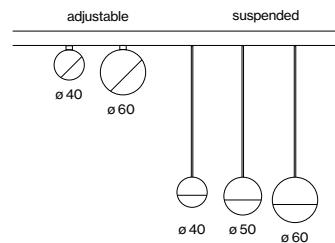
NOBA

decorative inset 10

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90
up to 110 lm/W
DALI-2

Types



Colours



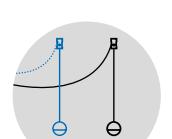
Light distribution



direct



360° rotatable
90° tiltable



free positioning by
cable and hook



high quality
glass lens

Order options

COLOUR TEMPERATURE	<input checked="" type="checkbox"/>
2700K	4
3000K	5
4000K	6

CONTROL	<input type="checkbox"/>
DALI-2	

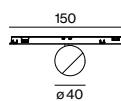
MATERIAL COLOUR	<input checked="" type="checkbox"/>
○ traffic white RAL 9016	7
● jet black RAL 9005	8
● brushed aluminium	6
● chrome	4

MATERIAL COLOUR	<input type="checkbox"/>
○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE	<input type="checkbox"/>
direct 80°	

Options on request

MATERIAL COLOUR	<input type="checkbox"/>
● gun metal	
● brushed brass	
● rose gold	

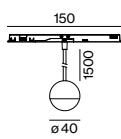


NOBA 40



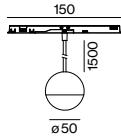
SPOTLIGHT ADJUSTABLE

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4.5 W	2700K	465lm	0 3 0 - 6 8 0 0 :: 3
	3000K	480lm	
	4000K	500lm	

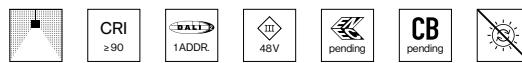


DOWNLIGHT SUSPENDED

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
4.5 W	2700K	465lm	0 3 0 - 6 9 0 0 :: 3
	3000K	480lm	
	4000K	500lm	

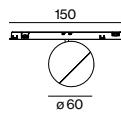


NOBA 50



DOWNLIGHT SUSPENDED

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
9 W	2700K	695lm	0 3 0 - 6 9 1 0 :: 3
	3000K	725lm	
	4000K	760lm	

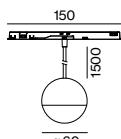


NOBA 60



SPOTLIGHT ADJUSTABLE

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700K	715lm	0 3 0 - 6 8 2 0 :: 3
	3000K	745lm	
	4000K	780lm	



DOWNLIGHT SUSPENDED

INSET POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
10 W	2700K	715lm	0 3 0 - 6 9 2 0 :: 3
	3000K	745lm	
	4000K	780lm	

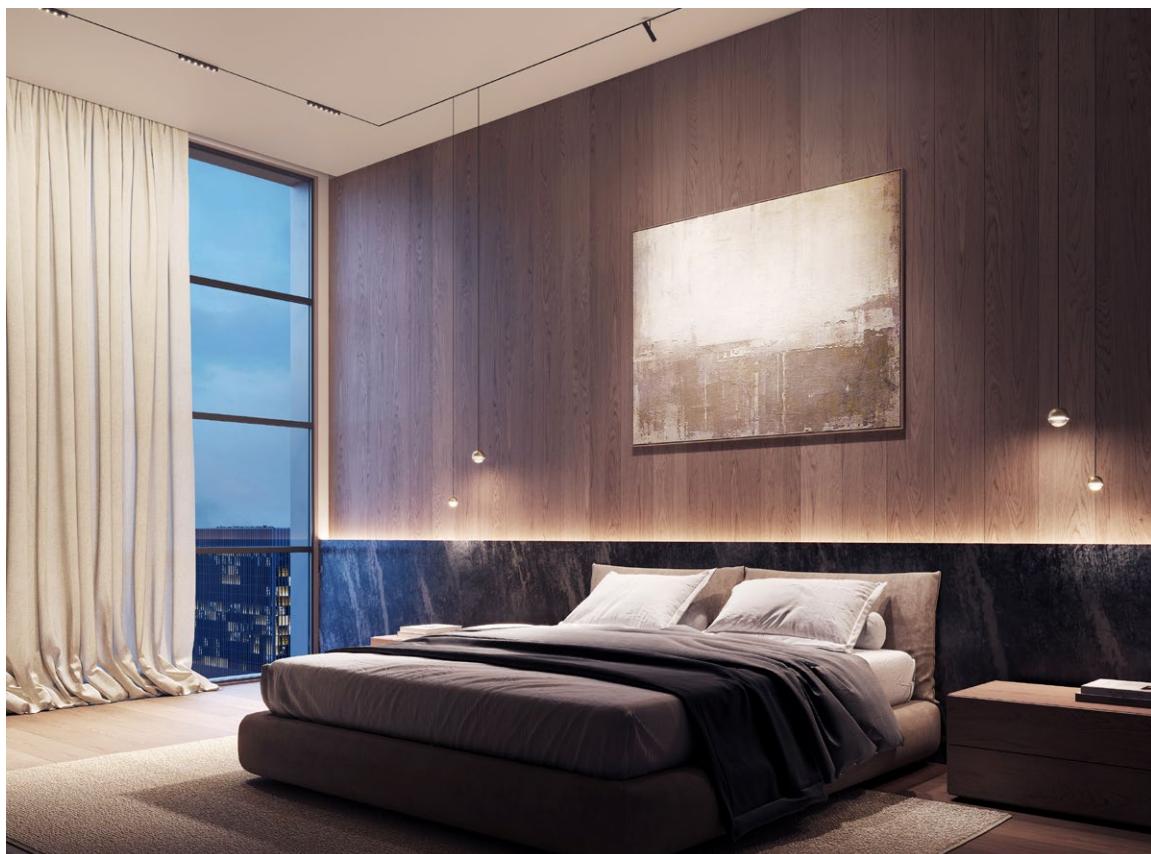


Mounting accessories

HOOK ceiling mounted	<input type="checkbox"/>	TYPE	<input type="checkbox"/>	Ø-H (mm)	<input type="checkbox"/>	ORDER CODE
hook				16-30		0 3 0 - 1 0 0 0 0 1

INSET POWER is the current consumption excluding any ballast
LUMINOUS FLUX value calculated for CRI ≥ 90, colour white

Private Residence
Visualisation





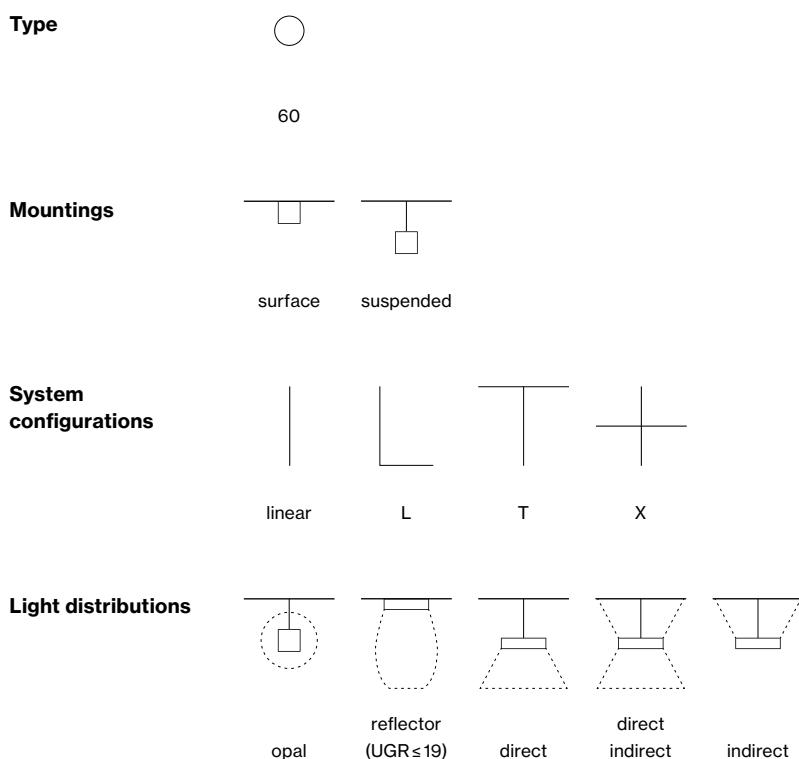
Perfect allrounder



TUBO/SETA 60 CONEX system

EN TUBO and SETA make a name for themselves as uniform and minimalist lighting system luminaires that can be flexibly joined by various connecting elements. The luminaires are available for wall and ceiling mounting, as well as in suspended pendant versions. Thanks to their opal cover, the TUBO system luminaire delivers uniform ambient illumination and the characteristic beam angle of up to 340° ensures a soft ceiling illumination that helps build a pleasant room atmosphere. SETA system luminaire's reflectors are particularly noteworthy and have been optimised for office spaces and designed for working at screens. The indirect light component creates a pleasant, homogeneous ceiling illumination for every work area. The CONEX connector (patent pending) grants the system a high degree of flexibility. As a mechanical and electrical L-, T-, and X-shaped connecting element, it allows implementation of geometric shapes over several levels.

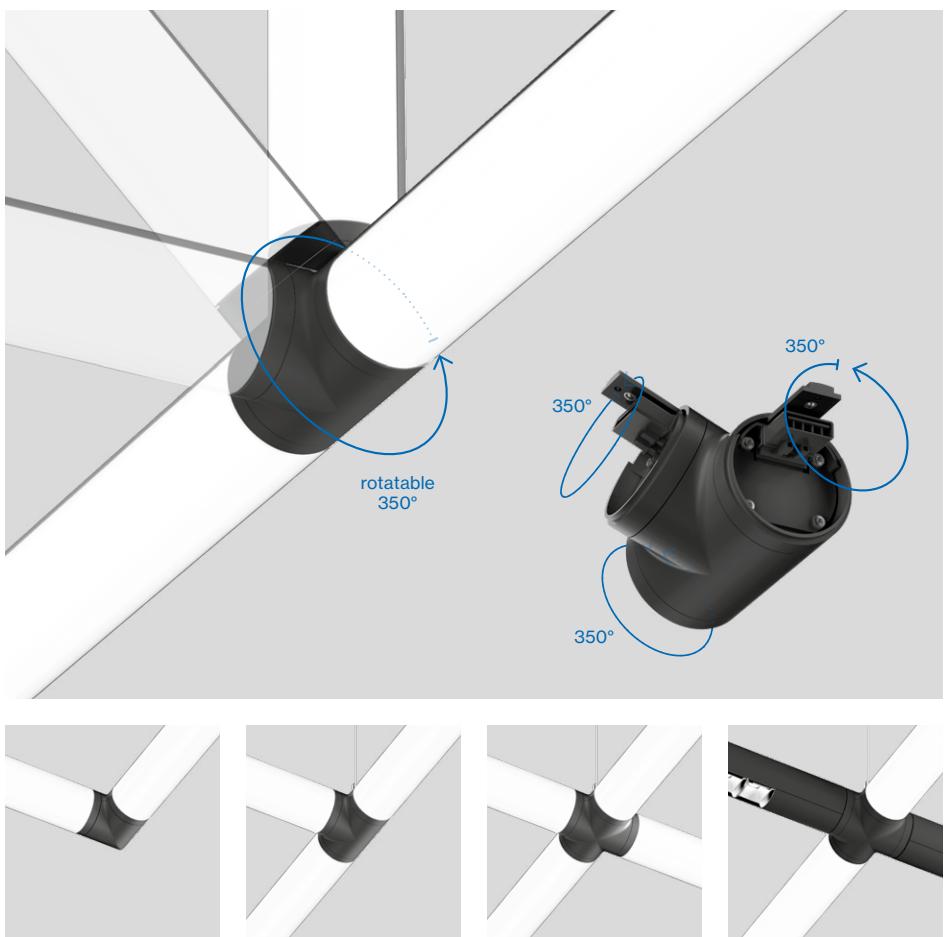
ES Las luminarias modulares TUBO y SETA son sistemas de iluminación homogéneos y minimalistas que pueden unirse unos a otros de un modo flexible utilizando diferentes elementos de unión. Estas luminarias también están disponibles para el montaje en pared o techo y como variantes de suspensión. El difusor opal de TUBO permite a esta luminaria ofrecer un alumbrado general homogéneo, y su ángulo de proyección característico de hasta 340° garantiza una suave iluminación del techo que crea una atmósfera espacial positiva. Cabe destacar especialmente los reflectores optimizados para oficinas de la luminaria modular SETA, 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. El conector CONEX (en espera de patente) dota al sistema de una gran flexibilidad. El elemento de unión mecánica y eléctrica en forma de L, T o X permite obtener formas geométricas en varios niveles.



Connector CONEX

EN The patent pending CONEX connector system for the TUBO 60 system now offers even more design freedom. With the flexible lighting system, geometric shapes or exciting light sculptures can be created. Thanks to the mechanical and electrical connectors in L, T and X shapes, a visually uniform lighting system is created. In combination with the SETA system, various areas of application are possible - whether as corridor, office luminaire or visual guidance system.

ES El sistema de unión CONEX (en espera de patente) para la luminaria modular TUBO 60 ofrece aún más libertad de configuración. Este sistema de conexión flexible permite crear formas geométricas o esculturas de luz magníficas. Gracias a los elementos de unión mecánica y eléctrica en forma de L, T o X es posible obtener un sistema de iluminación visualmente homogéneo. Combinado con la luminaria modular SETA, su uso es posible en distintas aplicaciones, tales como luminarias de pasillos u oficinas o como sistema de direccionamiento visual.



Easy mounting

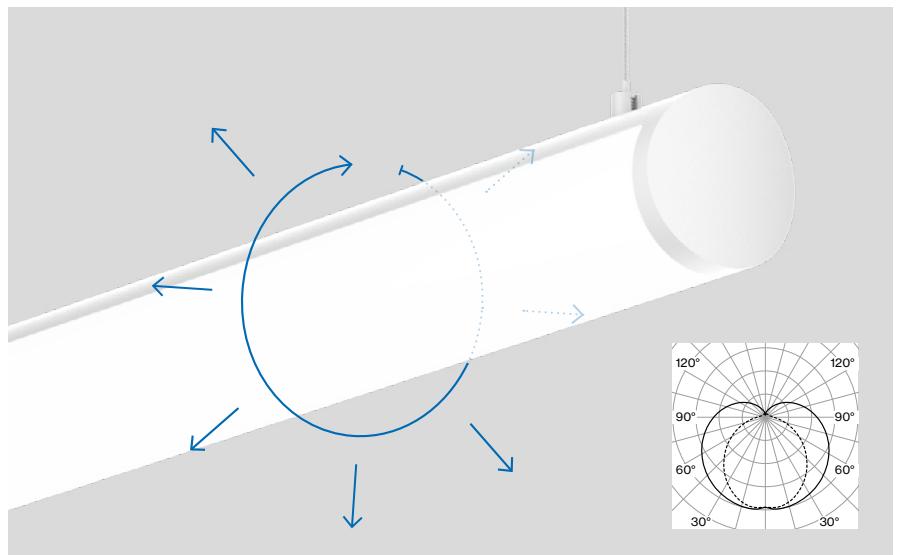
EN CONEX system luminaires are electrically and mechanically connected by a simple plug-in connection. This makes the installation of a complex lighting system simple, quick, and straightforward.

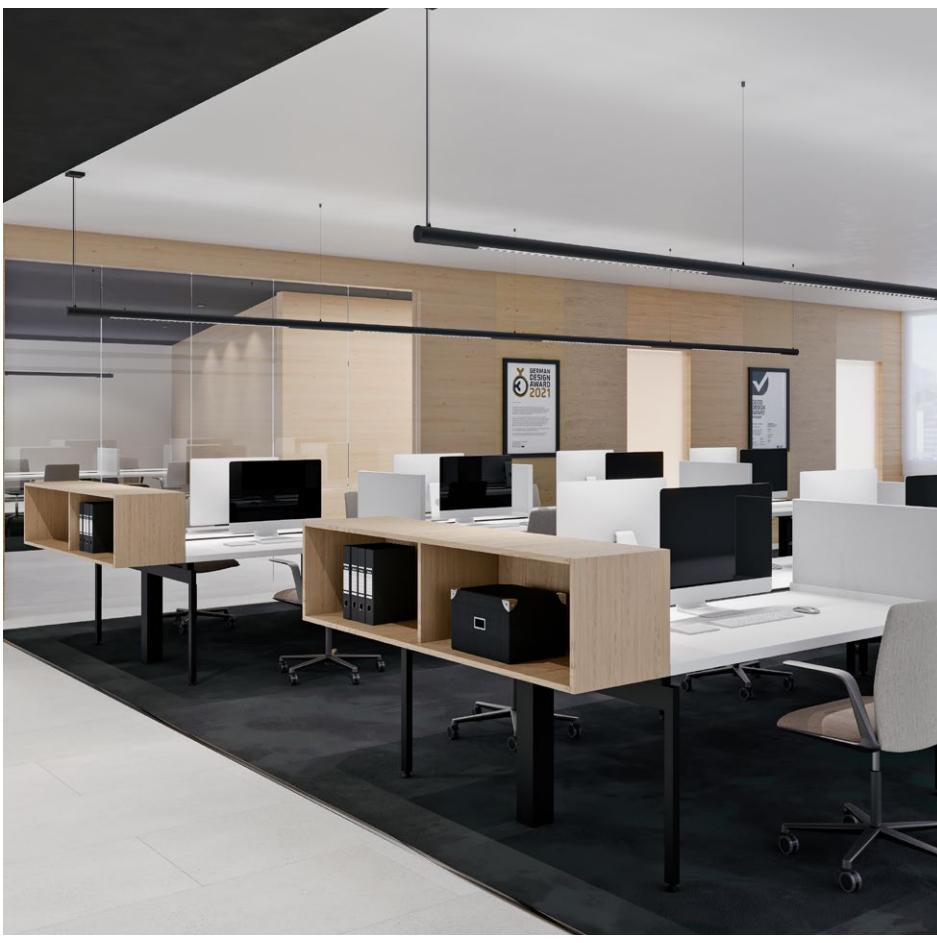
ES Las luminarias modulares CONEX se conectan eléctricamente y mecánicamente con una simple conexión enchufable. Con ello, el montaje de un sistema de iluminación complejo puede realizarse de un modo muy sencillo, rápido y sin complicaciones.

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 leve 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 o vestíbulos.

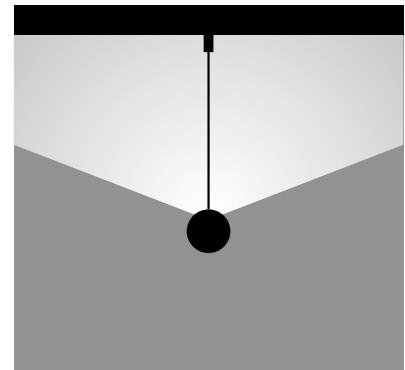




Work-friendly light

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.

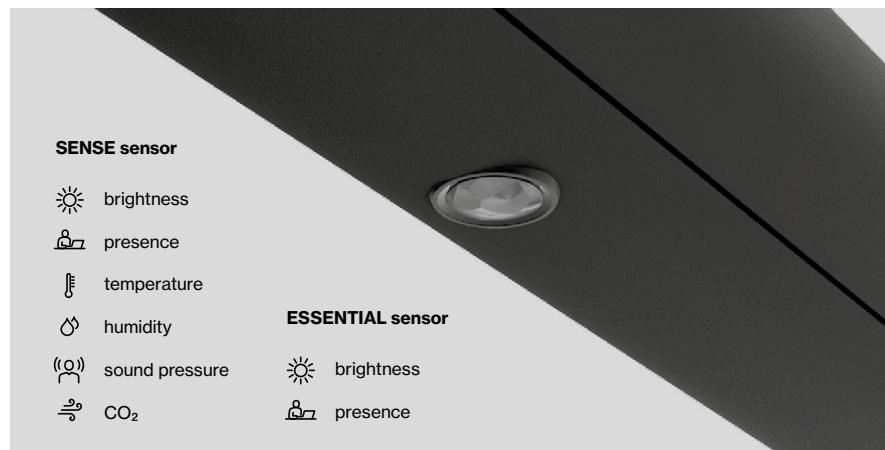
ES Como luminaria de oficina, SETA ofrece una iluminación de puestos de trabajo adaptada a la normativa (hasta UGR≤16). Unos reflectores especiales libres de deslumbramiento y el empleo selectivo de difusores opacos dirigen la luz con precisión a la superficie de trabajo y reducen los reflejos. En la variante directa/indirecta, la tecnología de lentes especial distribuye de manera homogénea en el techo una proporción de luz indirecta con un ángulo de apertura muy amplio.



Advanced sensor technology

EN Special sensors expand the product family SETA 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.

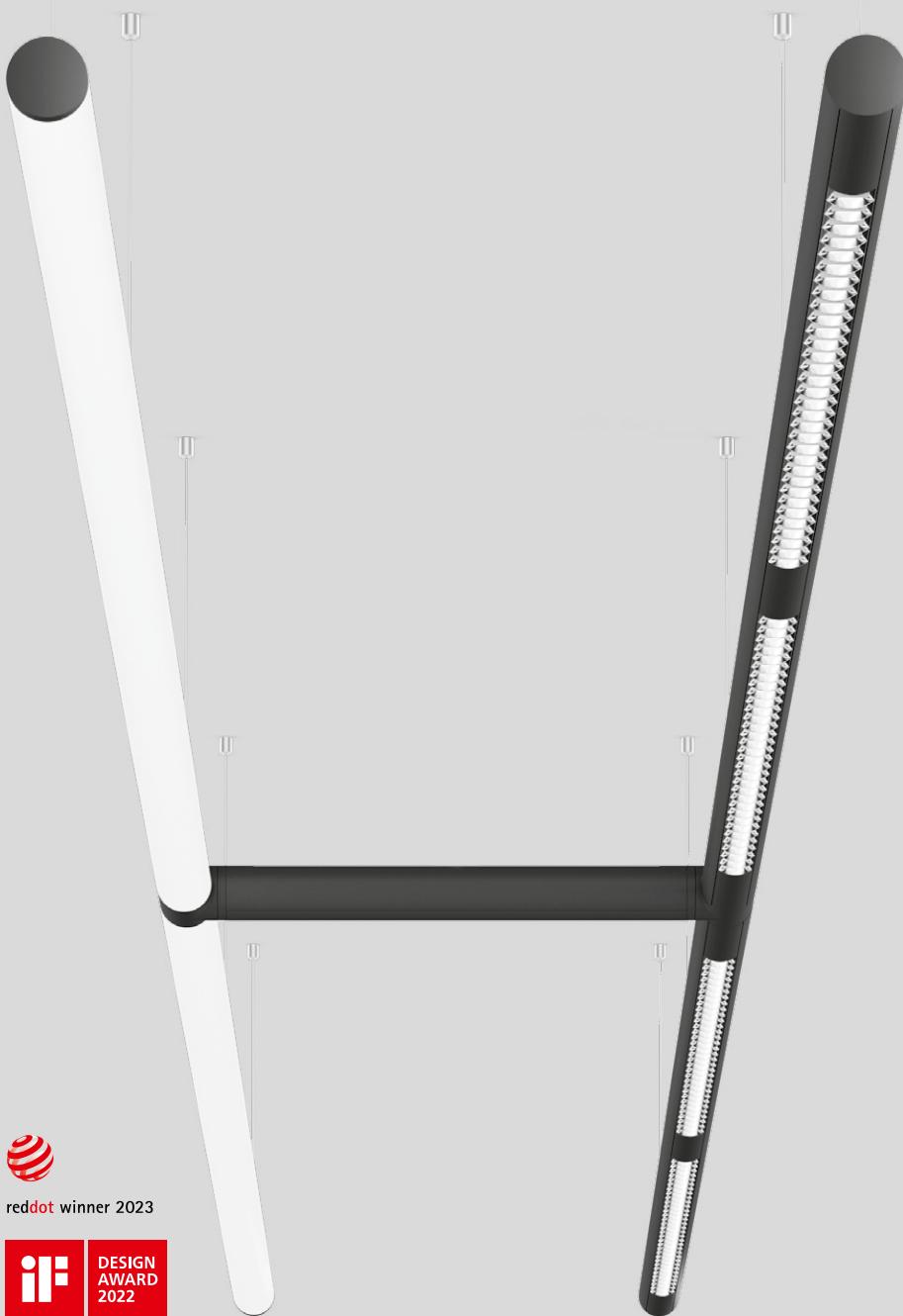
ES Unos sensores especiales amplían la familia de productos SETA con el control inteligente de la iluminación. El sensor ESSENTIAL permite adaptar la luz dinámicamente a la luminosidad del entorno y a la actividad de la sala. La variante SENSE también mide valores como la temperatura, la calidad y humedad 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 de un modo duradero.



Indirect version

EN SETA indirect stands for the minimalist design of the product family and expands it with an indirect luminaire that provides homogeneous ceiling lighting. This creates a pleasant room feeling and the possibility to illuminate ceiling patterns harmoniously.

ES La luminaria SETA indirect representa el diseño minimalista de esta familia de productos y la amplía con una luminaria de luz indirecta que proporciona una iluminación homogénea del techo. Esto genera una sensación agradable en la sala y ofrece la posibilidad de iluminar patrones de techo armoniosamente.



reddot winner 2023



TUBO/SETA 60 CONEX system

surface / suspended

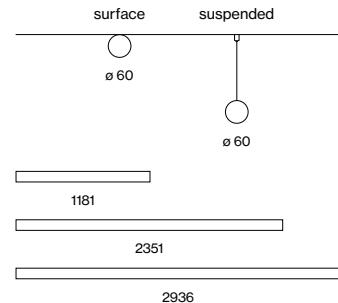
EN Cylindrical lighting system in aluminium; powder coated; ceiling surface mounting or suspended mounting; height adjustment without tools; with transparent feeder cable; electrical connection of the luminaires via plug/socket system; optionally connectors (L-, T- or X-shape); luminaire connection rotatable around its own axis, which means that any spatial angle can be realized; optionally cylindrical HPO (High Performance Opal) cover or high gloss reflector with faceted design; light control via high quality lens system for homogeneous illumination (HPO); direct, indirect or direct / indirect light distribution (reflector); indirect light component with integrated PCboards and high quality lens system for homog. ceiling illumination, separately controllable; energy-eff. LEDs - very good colour rendering

ES Sistema de iluminación cilíndrico de aluminio; recubierto de polvo; montaje sobre techo o suspendido; altura regulable sin herramientas; incl. cable de alimentación transparente; unión eléctrica de las luminarias con conexión macho/hembra; conector opcional (en forma de L, T o X); conexión de luminaria girable en su propio eje que permite la orientación en cualquier ángulo de la sala; disponible con difusor cilindr. HPO (High Performance Opal) o reflejor de alto brillo con óptica facetada; direccionamiento de la luz con óptica de lente de alta calidad para un alumbrado homogéneo (HPO); proyección directa, indirecta o directa/indirecta (reflector); componente de luz indir. con plet. propias y ópt. de lente de alta calidad para un alumbr. de techo y homog. con control indep.; LED energét. efic. - excelente reproduc. crom.

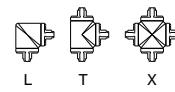
Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 3000 cd/m²
opal up to 3230 lm/m
up to 160 lm/W
L90 @ 50 000 h
DALI-2
opal, reflector (UGR ≤ 19)

Types



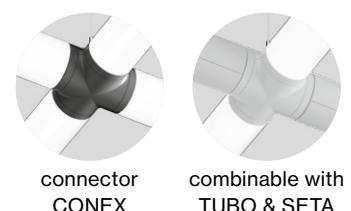
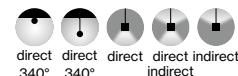
CONEX connector



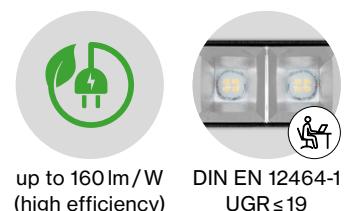
Colours



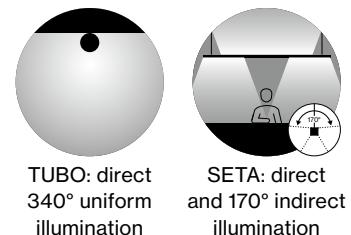
Light distributions



connector CONEX combinable with TUBO & SETA



up to 160 lm/W (high efficiency) DIN EN 12464-1 UGR ≤ 19



TUBO: direct 340° uniform illumination SETA: direct 170° indirect illumination

Order options

THROUGH WIRE TYPE	<input checked="" type="checkbox"/>
standard  	2
CONEX L/T/X  	3
between two CONEX connectors one CONEX luminaire or blind channel is needed	
COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL

DALI-2

MATERIAL COLOUR	<input checked="" type="checkbox"/>
<input type="radio"/> pure white RAL 9010	7
<input checked="" type="radio"/> jet black RAL 9005	8

REFLECTOR COLOUR	<input checked="" type="checkbox"/>
<input type="checkbox"/> chrome	R
<input checked="" type="radio"/> dark chrome	B



TUBO 60 surface/suspended

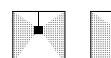
			
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OPAL 340° DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
33 W	3000 K	3560 lm	1181	0 5 8 - 3 0  4 :: 3 
	4000 K	3760 lm		O
66 W	3000 K	7110 lm	2351	0 5 8 - 3 0  8 :: 3 
	4000 K	7530 lm		O
82 W	3000 K	8890 lm	2936	0 5 8 - 3 0  9 :: 3 
	4000 K	9410 lm		O

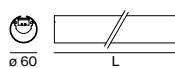


SETA 60 surface/suspended

			
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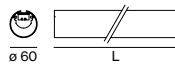
REFLECTOR DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
19.3 W	3000 K	2670 lm	1181	0 5 8 - 4 0  4 :: 3 
	4000 K	3040 lm		O
45 W	3000 K	6240 lm	2351	0 5 8 - 4 0  8 :: 3 
	4000 K	7100 lm		O
58 W	3000 K	8020 lm	2936	0 5 8 - 4 0  9 :: 3 
	4000 K	9130 lm		O



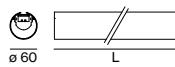
REFLECTOR DIRECT/INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
45 W	3000 K	↓ 2670 / ↑ 3530 lm	1181	0 5 8 - 4 1  4 :: 3 
	4000 K	↓ 3040 / ↑ 4010 lm		O
92 W	3000 K	↓ 6240 / ↑ 7050 lm	2351	0 5 8 - 4 1  8 :: 3 
	4000 K	↓ 7100 / ↑ 8030 lm		O
116 W	3000 K	↓ 8020 / ↑ 8820 lm	2936	0 5 8 - 4 1  9 :: 3 
	4000 K	↓ 9130 / ↑ 10000 lm		O



INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
26.1 W	3000 K	3530 lm	1181	0 5 8 - 4 2  4 :: 3 
	4000 K	4010 lm		O
52 W	3000 K	7050 lm	2351	0 5 8 - 4 2  8 :: 3 
	4000 K	8030 lm		O
65 W	3000 K	8820 lm	2936	0 5 8 - 4 2  9 :: 3 
	4000 K	10000 lm		O



BLIND CHANNEL incl. through wiring

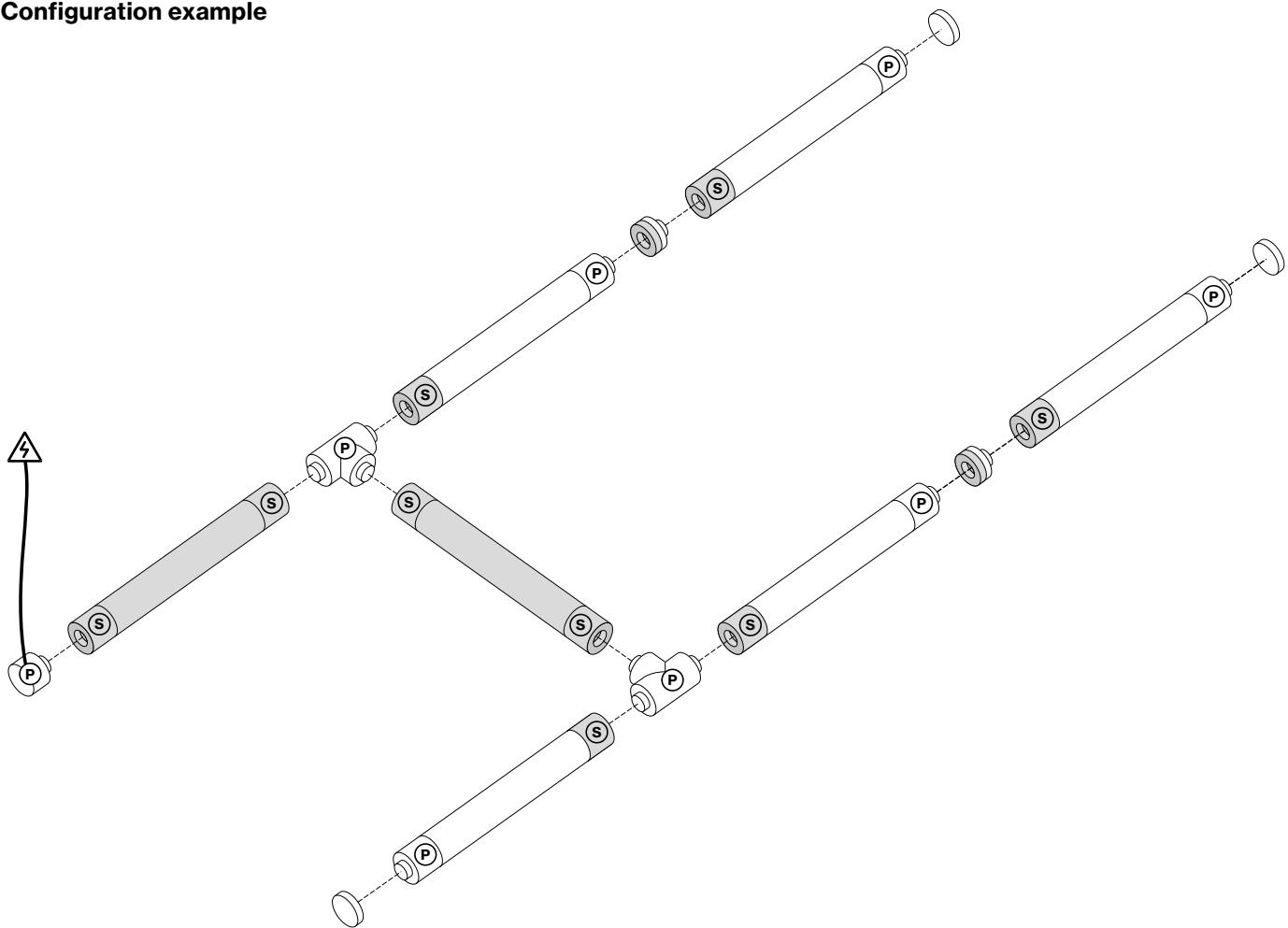
L (mm)	ORDER CODE
585	0 5 8 - 4 9  2 0 3 
1185	0 5 8 - 4 9  4 0 3 
2351	0 5 8 - 4 9  8 0 3 
2936	0 5 8 - 4 9  9 0 3 

Accessories

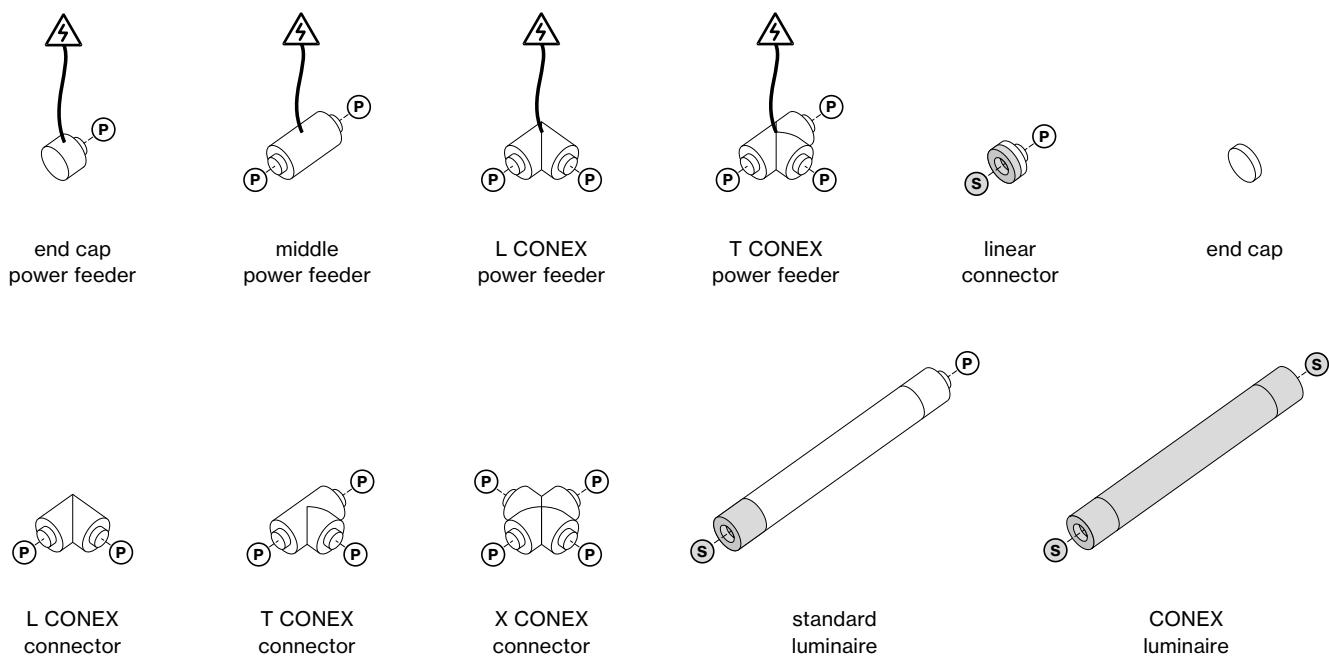
see next page

LUMINOUS FLUX value calculated for
CRI≥80, colour white, cover opal
or reflector chrome

Configuration example



Components



Order options

MATERIAL COLOUR	<input checked="" type="checkbox"/>
○ pure white RAL 9010	7
● jet black RAL 9005	8

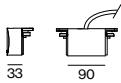
MATERIAL COLOUR	<input checked="" type="checkbox"/>
CABLE SUSPENSION	<input checked="" type="checkbox"/>
✓ chrome	0
● black	8



Accessories

END CAP

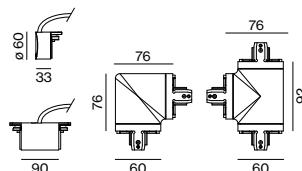
TYPE	ORDER CODE
end cap	0 5 8 - 3 0 1 0 0 1 <input checked="" type="checkbox"/>



POWER FEEDER SURFACE

TYPE	ORDER CODE
end cap power feeder	0 5 8 - 3 0 1 0 2 1 <input checked="" type="checkbox"/>
middle power feeder*	0 5 8 - 3 0 1 1 2 1 <input checked="" type="checkbox"/>

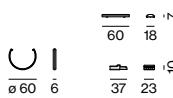
*incl. feeder cable 5 x 1.5 mm²



POWER FEEDER SUSPENDED incl. feeder cable 5 x 1.5 mm²

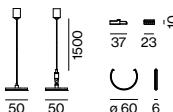
TYPE	L (mm)	ORDER CODE
end cap power feeder	1500	0 5 8 - 3 0 1 0 4 1 <input checked="" type="checkbox"/>
middle power feeder*	1500	0 5 8 - 3 0 1 1 3 1 <input checked="" type="checkbox"/>
L CONEX power feeder**	1500	0 5 8 - 3 0 1 8 7 3 <input checked="" type="checkbox"/>
T CONEX power feeder**	1500	0 5 8 - 3 0 1 8 8 3 <input checked="" type="checkbox"/>

*order cable suspension separately; **order CONEX cable suspension separately



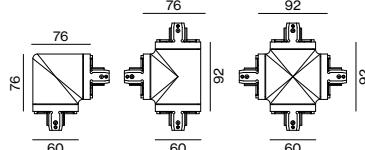
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector mechanical	0 5 8 - 3 0 1 3 1 1 <input checked="" type="checkbox"/>
linear connector mechanical & electrical	0 5 8 - 3 0 1 3 1 2 <input checked="" type="checkbox"/>



LINEAR CONNECTOR SUSPENDED incl. cable suspension 1500 mm

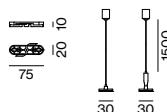
TYPE	L (mm)	ORDER CODE
linear connector mechanical	1500	0 5 8 - 3 0 1 3 2 1 <input checked="" type="checkbox"/>
linear connector mech. & electr. <input checked="" type="checkbox"/>	1500	0 5 8 - 3 0 1 3 2 2 <input checked="" type="checkbox"/>



CONEX CONNECTOR

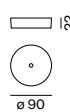
TYPE	ORDER CODE
L CONEX connector mech. & electr.	0 5 8 - 3 0 1 8 7 2 <input checked="" type="checkbox"/>
T CONEX connector mech. & electr.	0 5 8 - 3 0 1 8 8 2 <input checked="" type="checkbox"/>
X CONEX connector mech. & electr.	0 5 8 - 3 0 1 8 9 2 <input checked="" type="checkbox"/>

order CONEX cable suspension separately



MOUNTING SET

TYPE	L (mm)	ORDER CODE
ceiling mounting set	75	0 5 8 - 3 0 1 4 1 1 <input checked="" type="checkbox"/>
cable suspension	1500	0 5 8 - 3 0 1 4 2 1 <input checked="" type="checkbox"/>
cable suspension angular max. 60°	1500	0 5 8 - 3 0 1 4 3 1 <input checked="" type="checkbox"/>
CONEX cable suspension	1500	0 5 8 - 3 0 1 8 1 1 <input checked="" type="checkbox"/>



CANOPY

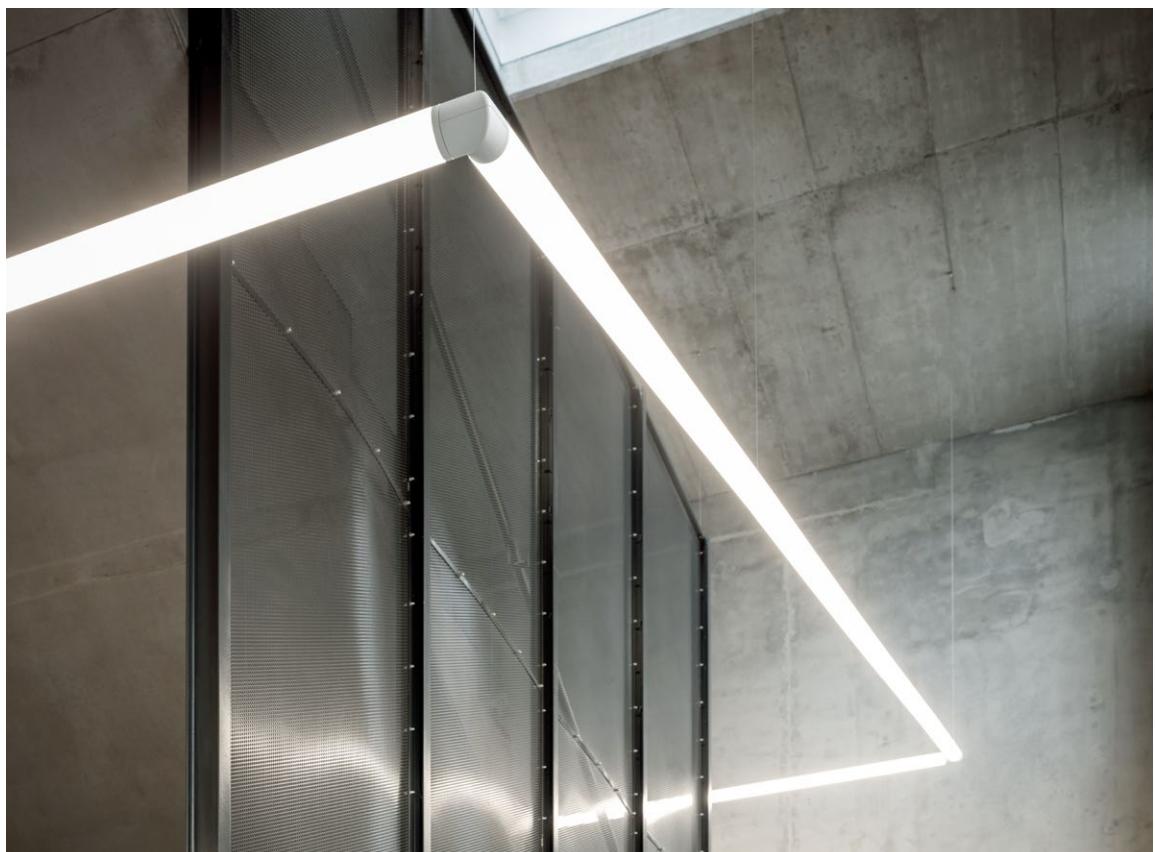
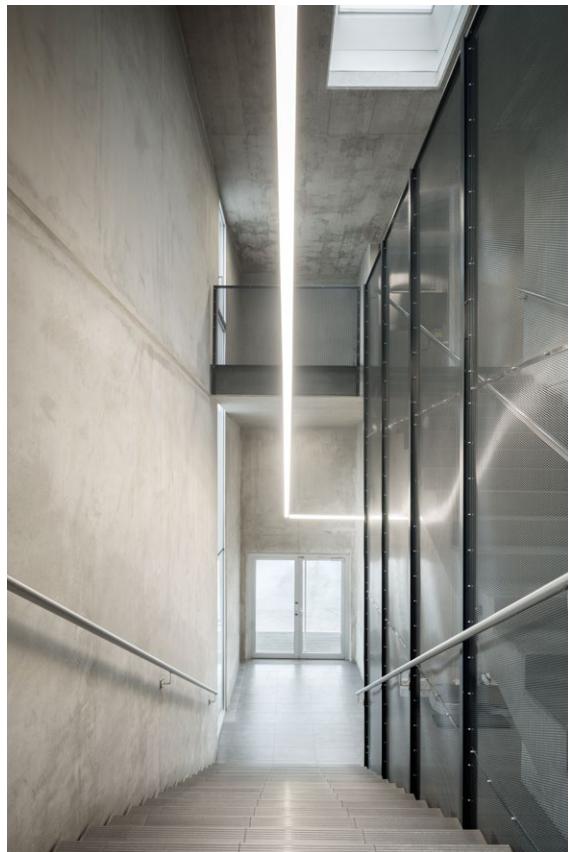
TYPE	Ø-H (mm)	ORDER CODE
canopy	90-22	0 0 5 - 2 6 0 0 0 3 <input checked="" type="checkbox"/>

for electrical system configuration see luminaire data sheet at xal.com



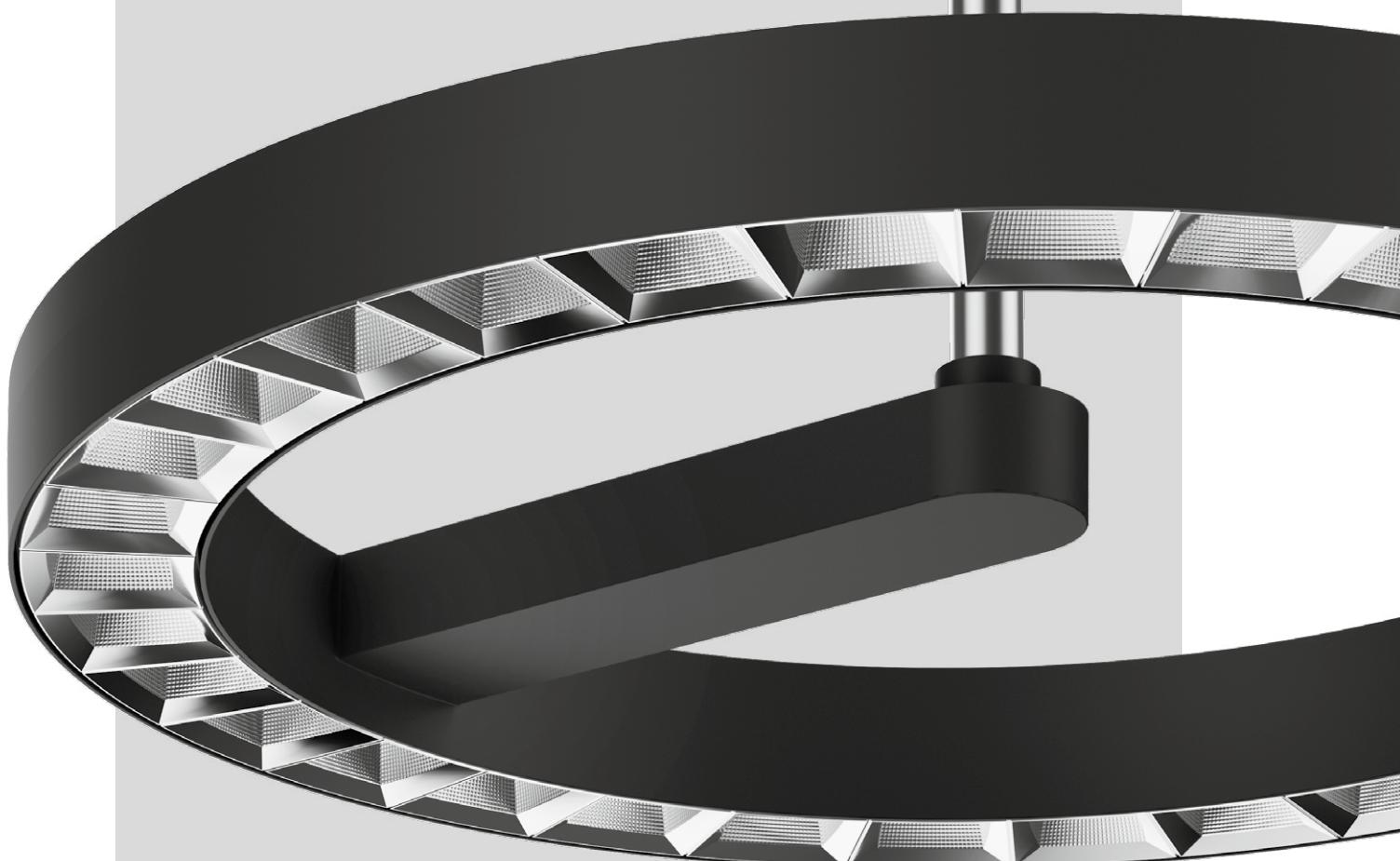
SENSOR DALI-2

TYPE	ORDER CODE
ESSENTIAL (brightness & presence)	0 5 8 - 3 0 1 9 1 1 <input checked="" type="checkbox"/>
SENSE (brightness, presence, temperature, sound pressure, humidity, CO ₂)	0 5 8 - 3 0 1 9 2 1 <input checked="" type="checkbox"/>

XAL Headquarters Graz, AT



Discreet perfection

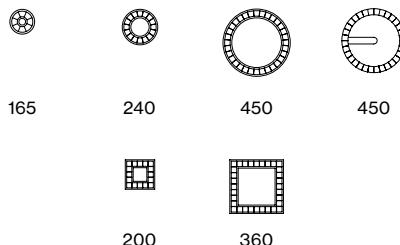


MITA

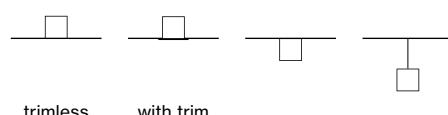
EN MITA combines high performance with a slim design language and its wide range of applications is impressive. The product family is available as recessed or surface-mounted luminaire in a round or square design as well as suspended version. All the versions of the luminaire have special reflectors for the best screen-compatible work lighting – perfect for use in offices or meeting rooms. 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 la potencia con un lenguaje de formas estilizado y cautiva por sus múltiples posibilidades de uso. La familia de productos incluye luminarias empotrables y de superficie en variantes redondas o cuadradas, así como una variante de suspensión. En todos sus modelos, esta luminaria dispone de unos reflectores especiales que proporcionan la mejor luz de trabajo para el uso de pantallas de visualización, por lo que es perfecta para la utilización en oficinas y salas de reuniones. 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 lumino-sidad.

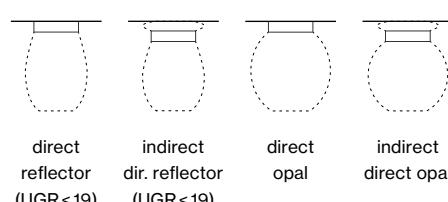
Types



Mountings



Light distributions

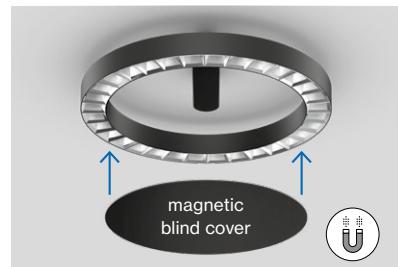




Variety

EN MITA is characterised by an elegant design language with maximum efficiency and versatile application possibilities. The MITA product family is available as a recessed or surface-mounted luminaire in round and square versions, as well as a suspended variant. For a uniform ceiling appearance, the cover can simply be attached magnetically and is available as a reflector or opal cover.

ES MITA ofrece un lenguaje de formas elegante unido a la máxima eficiencia, y destaca por sus múltiples posibilidades de uso. La familia de productos MITA consta de luminarias empotrables o de superficie en variantes redondas, cuadradas y de suspensión. Para conseguir un patrón de techo uniforme, el difusor puede fijarse magnéticamente de un modo fácil y está disponible como variante de reflector o de cubierta opal.



Advanced sensor technology

EN Special sensors expand the MITA 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 sensor 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 Unos sensores especiales amplían la familia de productos MITA con un control inteligente de la iluminación. El sensor ESSENTIAL permite adaptar la luz dinámicamente a la luminosidad del entorno y a la actividad de la sala. El sensor SENSE mide además 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 de un modo duradero.

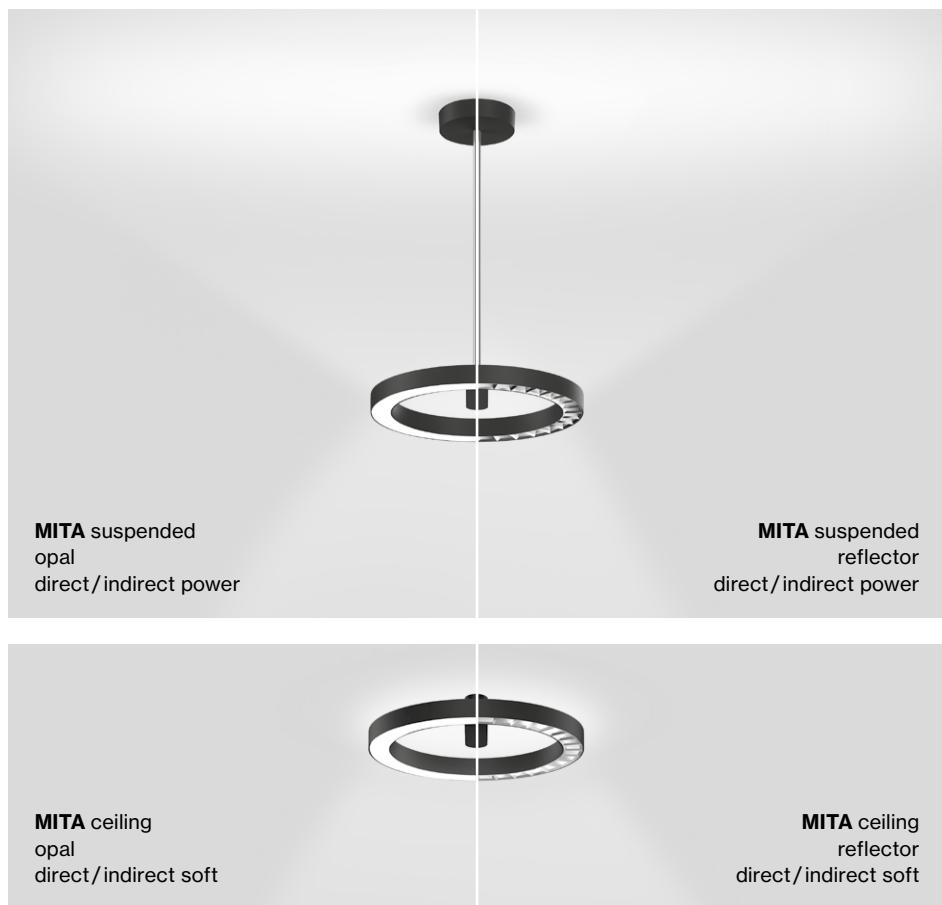


ESSENTIAL sensor

- brightness
- presence

SENSE sensor

- brightness
- temperature
- humidity
- sound pressure
- CO₂



Light distribution

EN As an office luminaire, MITA guarantees the best possible working light. Special, glare-reduced reflectors direct the light precisely onto the work surface and reduce reflections. The opal cover ensures homogeneous room illumination. With the direct/indirect power version of the suspended luminaire, the indirect light component has a very wide beam and distributes the light evenly across the ceiling. The direct/indirect soft light component of the surface-mounted version produces a gentle and light ceiling illumination, making the luminaire appear to almost float.

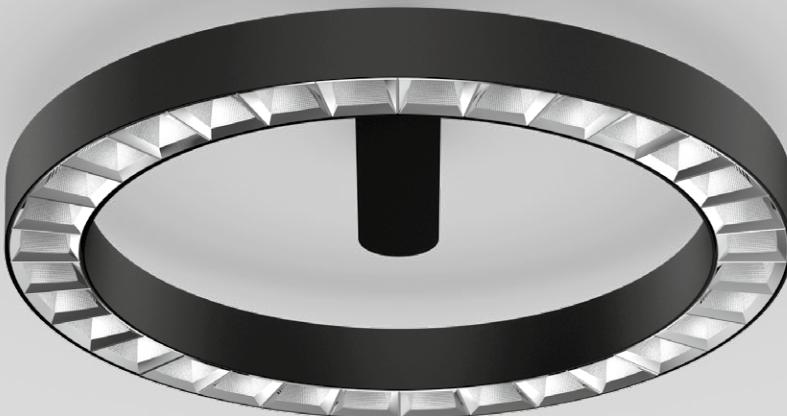
ES Como luminaria de oficina, MITA garantiza la mejor luz para trabajar. Unos reflectores especiales antideslumbramiento dirigen la luz con precisión a la superficie de trabajo y reducen los reflejos. Con el difusor opal se consigue una iluminación general homogénea. En la luminaria de suspensión con iluminación directa/indirecta «power», el componente de luz indirecta posee un ángulo de apertura muy amplio y distribuye la luz en el techo de manera homogénea. El componente de luz directa/indirecta «soft» de la variante de superficie genera un alumbrado suave y ligero del techo y dota a la luminaria de una apariencia casi flotante.



Discreet accentuation

EN MITA sets discreet accents for a pleasant room atmosphere. The product is available in black or white, and with or without a cover. The magnetic cover attaches easily and the indirect component provides gentle and light ceiling brightening.

ES MITA establece acentos discretos para obtener una atmósfera interior agradable. Está disponible en color negro o blanco y se ofrece opcionalmente con difusor, el cual se fija fácilmente de forma magnética. La proporción de luz indirecta genera un alumbrado suave y ligero del techo y dota a la luminaria de una apariencia casi flotante.



MITA circle

ceiling

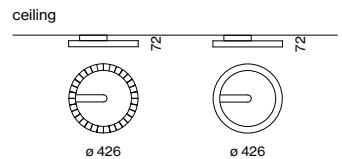
EN Ring shaped luminaire housing in die-cast aluminium; extremely slim design; surface powder coated; luminaire housing set away from ceiling; electronic operating unit installed in the surface mounted housing; surface mounted housing aligned from the ring to the center; optional: blind cover to cover 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; 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
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 158 lm/W
L90 @ 50 000 h
DALI-2, DALI-2 sensor
reflector (UGR ≤ 19), opal

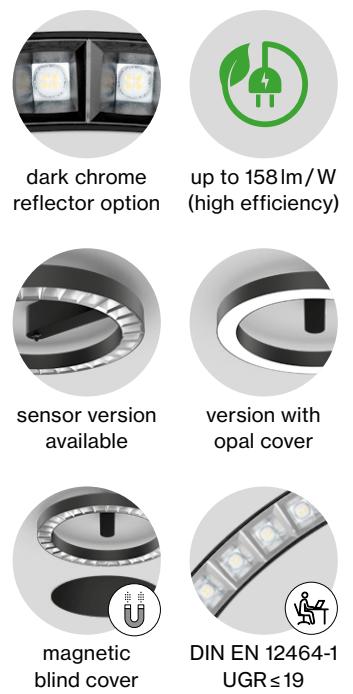
Types



Colours



Light distributions



Order options

COLOUR TEMPERATURE	
3000K	5
4000K	6

CONTROL	
DALI-2	3
DALI-2 ESSENTIAL sensor (brightness & presence)	B
DALI-2 SENSE sensor (brightness, presence, temp., sound pressure, humidity, CO ₂)	P

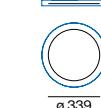
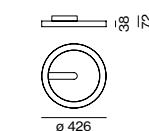
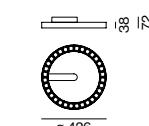
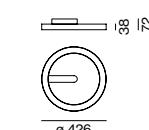
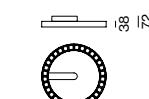
MATERIAL COLOUR	
○ traffic white RAL 9016	7
● jet black RAL 9005	8

REFLECTOR COLOUR	
✓ chrome	R
● dark chrome	B

LIGHT OPTIC COVER
reflector (UGR ≤ 19)
opal

Options on request

COLOUR RENDERING INDEX
CRI ≥ 90



MITA circle 450 ceiling



REFLECTOR DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30W	3000K	4210lm	0 7 4 - 7 5 1 1 ::♦■■
	4000K	4790lm	
40W	3000K	5470lm	0 7 4 - 7 5 2 1 ::♦■■
	4000K	6230lm	

OPAL DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24.9W	3000K	2770lm	0 7 4 - 7 5 1 1 ::♦■ O
	4000K	3150lm	

REFLECTOR DIRECT / INDIRECT SOFT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30W	3000K	↓ 4220 / ↑ 72lm	0 7 4 - 7 5 3 1 ::♦■■
	4000K	↓ 4800 / ↑ 82lm	
40W	3000K	↓ 5490 / ↑ 94lm	0 7 4 - 7 5 6 1 ::♦■■
	4000K	↓ 6240 / ↑ 107lm	

OPAL DIRECT / INDIRECT SOFT

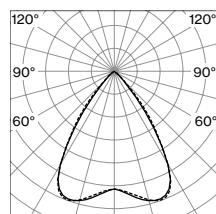
SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
24.9W	3000K	↓ 2700 / ↑ 136lm	0 7 4 - 7 5 3 1 ::♦■ O
	4000K	↓ 3080 / ↑ 155lm	

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

Meeting room
Visualisation





Hallway
Visualisation







MITA circle

suspended

EN Ring shaped luminaire housing in die-cast aluminium; extremely slim design; surface powder coated; suspended; with height adjustable rod suspension (chrome), feed in rod; electronic operating unit installed in the canopy; 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

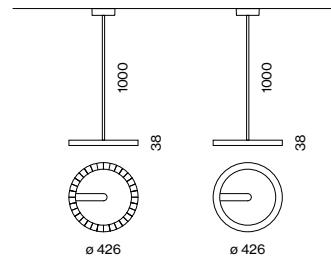
ES Cuerpo con forma de anillo y fabricado en aluminio; forma extremadamente esbelta; superficie con recubrimiento de pintura en polvo; suspendido; con suspensión acortable de tubo pendular (cromo), línea de alimentación en tubo pendular; driver instalado en el baldaquino; opcional: cubierta opaca de 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 proporciona una alta reproducción cromática

Quickinfo

3000 K, 4000 K
CRI ≥ 80, 3 SDCM
UGR ≤ 19 / 65° ≤ 1500 cd/m²
up to 160 lm/W
L90 @ 50 000 h
DALI-2, DALI-2 sensor
reflector (UGR ≤ 19), opal

Types

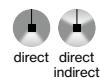
suspended



Colours



Light distributions



dark chrome reflector option up to 160 lm/W (high efficiency)



sensor version available version with opal cover



magnetic blind cover

DIN EN 12464-1
UGR ≤ 19

Order options

SUSPENSION

rod 1000 mm

COLOUR TEMPERATURE

<input checked="" type="radio"/>	3000K	5
<input type="radio"/>	4000K	6

CONTROL

<input type="radio"/>	DALI-2	3
<input checked="" type="radio"/>	DALI-2 ESSENTIAL sensor (brightness & presence)	B
<input type="radio"/>	DALI-2 SENSE sensor (brightness, presence, temp., sound pressure, humidity, CO ₂)	P

MATERIAL COLOUR

<input type="radio"/>	traffic white RAL 9016	7
<input checked="" type="radio"/>	jet black RAL 9005	8

REFLECTOR COLOUR

<input checked="" type="radio"/>	✓ chrome	R
<input type="radio"/>	● dark chrome	B

LIGHT OPTIC COVER

reflector (UGR≤19)	
opal	

Options on request

SUSPENSION

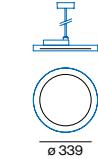
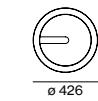
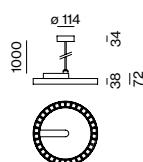
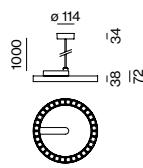
rod 1000 mm white	
rod 1000 mm black	

COLOUR RENDERING INDEX

CRI≥90	
--------	--

COLOUR TEMPERATURE

tunable white 2700–6500 K	
---------------------------	--



MITA circle 450 suspended



REFLECTOR DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
30W	3000K	4210lm	0 7 4 - 7 6 1 1 ::♦■■
	4000K	4790lm	
41W	3000K	5470lm	0 7 4 - 7 6 2 1 ::♦■■
	4000K	6230lm	

OPAL DIRECT

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
25.1W	3000K	2770lm	0 7 4 - 7 6 1 1 ::♦■○
	4000K	3060lm	

REFLECTOR DIRECT/INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
58W	3000K	↓ 4030/↑ 3780lm	0 7 4 - 7 6 5 1 ::♦■■
	4000K	↓ 4600/↑ 4310lm	

OPAL DIRECT/INDIRECT POWER

SYSTEM POWER	COLOUR TEMP.	LUMINOUS FLUX	ORDER CODE
58W	3000K	↓ 3140/↑ 3780lm	0 7 4 - 7 6 5 1 ::♦■○
	4000K	↓ 3570/↑ 4310lm	

Accessories

BLIND COVER

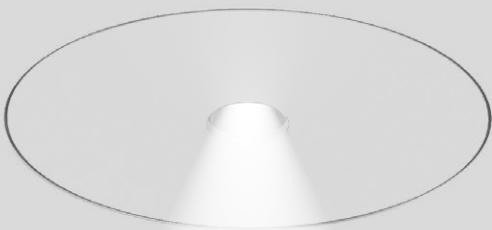
TYPE	ORDER CODE
MITA circle 450 suspended	0 7 4 - 8 9 1 1 6 2 ■
MITA circle 450 suspended sensor	0 7 4 - 8 9 1 1 6 3 ■

ALLPLAN Österreich GmbH
Graz, AT





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. In addition, SPIO 20 is available with Wallwasher Floor optic, which creates an uniform wall illumination. These different lighting options mean that versatile designs for interiors are possible. SPIO is available in the light colours 2700K, 3000K, and 4000K.

ES Los focos empotrables redondos SPIO permiten disfrutar de una iluminación especial en cualquier sala. La luminaria proporciona un efecto luminoso impresionante, ya sea en la variante con marco o sin marco perimetral. La carcasa puede pintarse sin problemas, con lo que el foco se integra en el patrón de techo a la perfección. La reducida abertura de salida de luz de tan solo 10 mm hace que SPIO parezca casi oculta. No obstante, su aspecto global sosegado y a la vez vistoso es todo menos invisible. El spot empotable redondo, disponible con un ángulo de apertura de 35° o 44°, puede girarse 360° en la carcasa e inclinarse a 30° en todas las direcciones. Además, SPIO 20 está disponible con una óptica de bañador de pared-suelo que ofrece un alumbrado homogéneo de las paredes. Esto hace posible una variada configuración del espacio con distintas posibilidades de iluminación. SPIO está disponible en temperaturas de color de 2700K, 3000K y 4000K.

Types

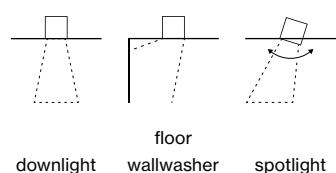


Mountings



trimless
recessed with trim
 recessed

Light distributions

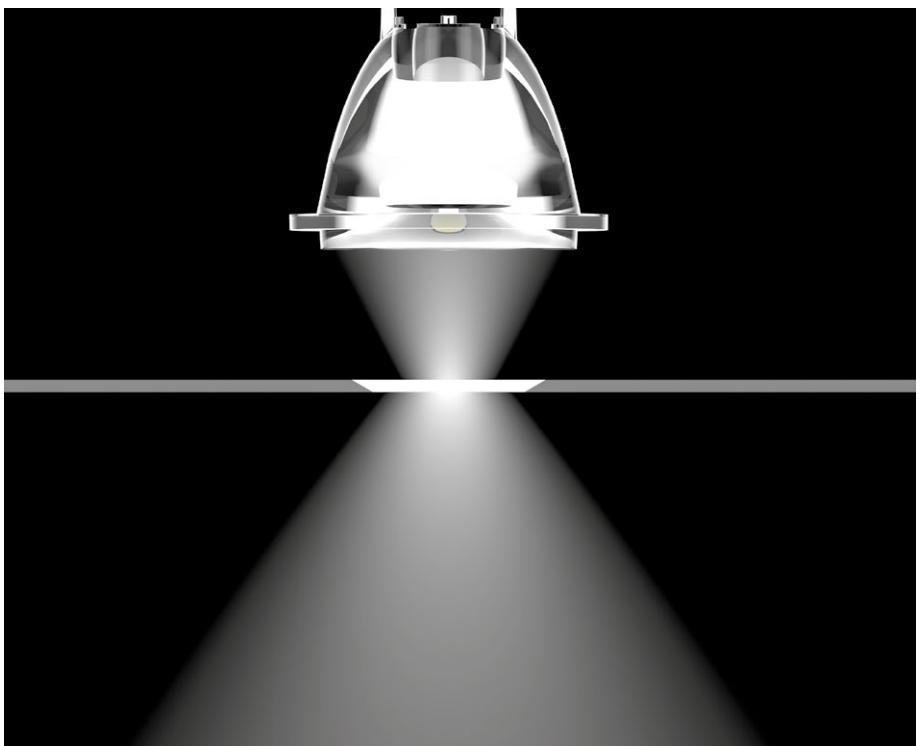


downlight floor
 wallwasher spotlight

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 LFO especial que se monta a una distancia precisa respecto a la superficie emisora de luz. Esa distancia garantiza que ningún rayo de luz incida en el área interior de la carcasa y reduce la superficie de salida de luz, haciendo que la luminaria SPIO ilumine la sala de un modo casi imperceptible.



Homogeneous appearance

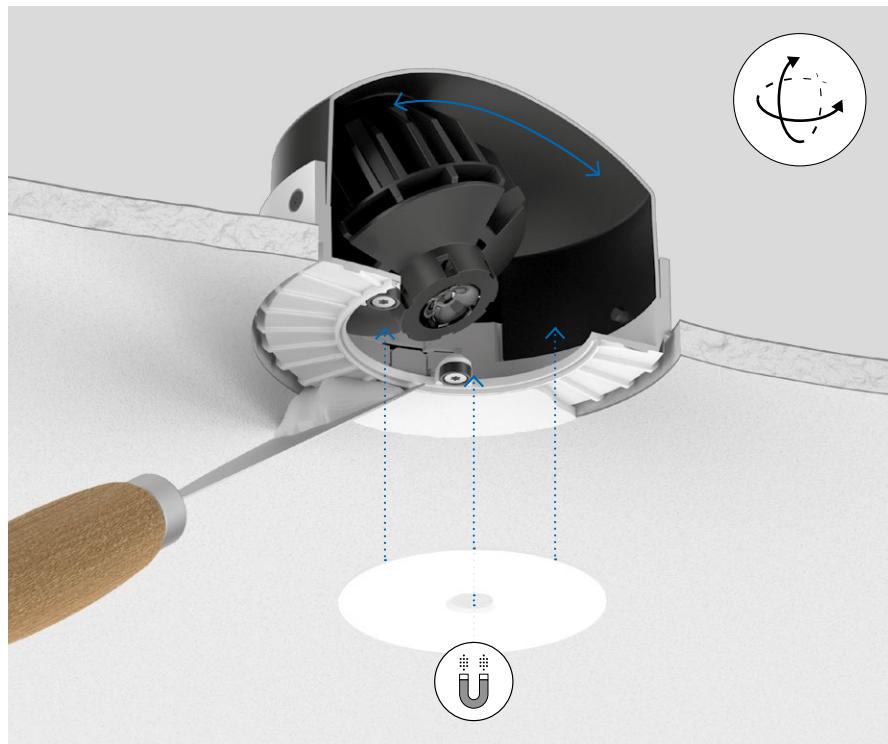
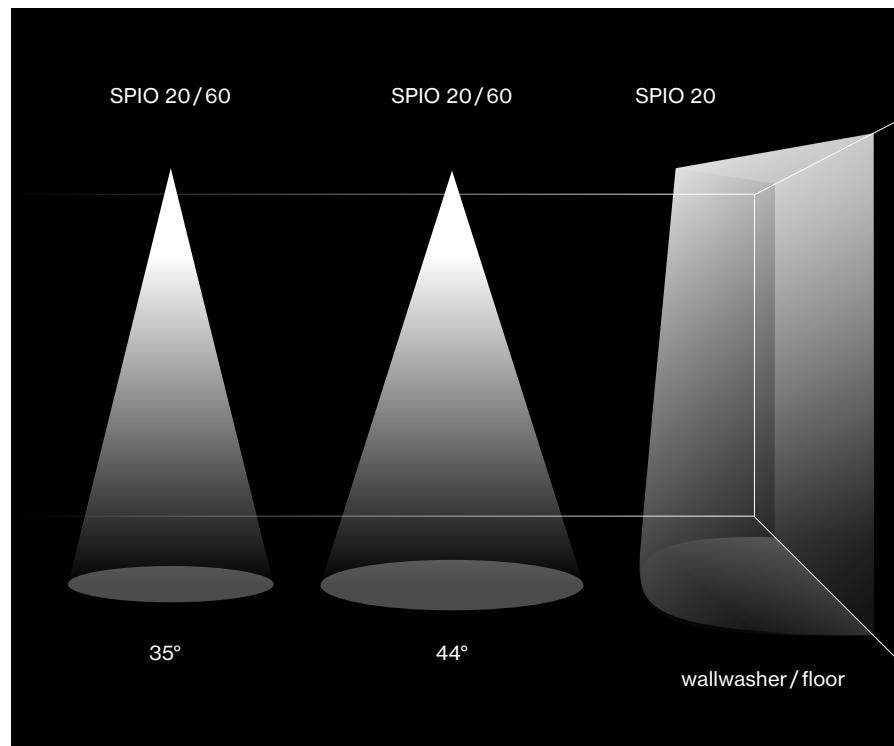
EN SPIO is the right choice for a uniform ceiling appearance. Thanks to its extremely small light aperture of 10 mm, the recessed spotlight appears almost invisible. The effective lighting is rounded off by its minimalist design language.

ES SPIO es la elección correcta para un patrón de techo uniforme. La pequeña abertura de salida de luz de tan solo 10 mm hace que el foco empotrado sea casi invisible. Su efectivo 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 20 is also available with Wallwasher Floor optic, which creates a homogeneous wall brightening effect. SPIO thus provides glare-free light and skilfully stages objects.

ES Pese a su superficie de salida reducida, el foco empotrable ofrece un ángulo de apertura de 35° o 44°. Además, SPIO 20 está disponible con una óptica de bañador de pared-suelo que hace posible un alumbrado homogéneo de las paredes. Con ello, SPIO ofrece una luz libre de deslumbramiento y pone en escena los objetos con habilidad.



Precise light adjustment

EN The adjustable version of SPIO 60, 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 «ajustable» de SPIO 60 (en espera de patente) puede moverse en todas las direcciones gracias a su cabezal de proyección magnético. Esto hace que, además de girar 360°, el foco pueda inclinarse hasta 30° en cualquier dirección. Así es capaz de ofrecer la máxima flexibilidad de orientación y un direccionamiento de la luz exacto hasta el lugar deseado.

Smooth and invisible

EN The trimless SPIO 60 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 60 hace posible un ajuste y un mantenimiento sencillos a través de su placa cobertora magnética. El foco puede empotrarse completamente en una plancha de cartón yeso. La carcasa empotrada puede pintarse a continuación junto con el techo de la sala. De ese modo, los spots parecen «invisibles», ofreciendo una impresión general homogénea de gran efecto.



SPIO 20

recessed

EN Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system or using snap spring closure; special mounting tool for easy installation of the trimless housing available as an accessory; for trimless installation in plasterboard ceilings; paintable light inset; shadow joint between light inset and mounting set optionally fillable; or with trim; with optional high quality lens system with precise radiation characteristic; or high quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristics with different beam angles; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface - only Ø10 mm (DOWNLIGHT) or Ø13 mm (WALLWASHER/FLOOR); no multiple shadows; energy-eff. LEDs - very good colour rendering

ES Proyector empotrable redondo de inyección en aluminio; montaje sin herramienta en el kit de montaje mediante sistema de cierre de bola o resorte a presión; herramienta de montaje especial para la sencilla instalación de la carcasa sin bordes disponible como accesorio; para montaje sin marco en techos de yeso; inserto luminoso pintable; separación emplastable entre el inserto luminoso y el kit de montaje; o con borde alrededor; opcionalmente con sistema óptico de lentes de alta calidad con precisa característica de emisión; o reflector de alta calidad vaporizado de aluminio con revestimiento de facetas esféricas; característica de emisión precisa con diferentes ángulos de emisión; vista de techo con luminaria empotrada; superficie emisora de luz reducida - solo 10 mm Ø (DOWNLIGHT) o 13 mm Ø (WALLWASHER/FLOOR); no sombras múltiples; LED energét. efic. - excelente reprod. crom.

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
up to 70 lm/W
L95 @ 50000 h
non DIM, DALI-2

Types

downlight		Ø 35 trim		Ø 26 trimless
wallwasher floor		Ø 35 trim		Ø 26 trimless

Colours



Light distributions



Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5
MATERIAL COLOUR	
<input type="radio"/> traffic white RAL 9016	7
<input checked="" type="radio"/> jet black RAL 9005	8
REFLECTOR COLOUR	
<input checked="" type="radio"/> jet black RAL 9005	
paintable cover	
BEAM ANGLE	
flood 35°	F
wide flood 44°	W

Options on request

COLOUR RENDERING INDEX
CRI ≥ 95, 2 SDCM
COLOUR TEMPERATURE
4000K
CONCRETE HOUSING
primed concrete ceiling
exposed concrete ceiling
REFLECTOR COLOUR
<input type="radio"/> traffic white* RAL9016
*only for wallwasher/floor



SPIO 20 downlight



DL DOWNLIGHT TRIMLESS

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.5 W 12Vf 600 mA	435 lm	0 4 8 - 1 7 1 0 :: 1 0 ▲

TRIMLESS MOUNTING SET for plasterboard ceilings 9–25 mm

COLOUR	ORDER CODE
<input type="radio"/> traffic white RAL9016	0 4 8 - 1 6 9 8 1 0 7

DL DOWNLIGHT TRIM

INSET POWER	LUMINOUS FLUX	ORDER CODE
6.5 W 12Vf 600 mA	435 lm	0 4 8 - 1 6 1 0 :: 1 □ ▲

SPIO 20 wallwasher / floor



WL WALLWASHER/FLOOR TRIMLESS

INSET POWER	LUMINOUS FLUX	ORDER CODE
5.9 W 5.6Vf 1050 mA	414 lm	0 4 8 - 1 7 3 0 :: 1 0 8 W

TRIMLESS MOUNTING SET for plasterboard ceilings 9–25 mm

COLOUR	ORDER CODE
<input type="radio"/> traffic white RAL9016	0 4 8 - 1 6 9 8 1 0 7

WL WALLWASHER/FLOOR TRIM

INSET POWER	LUMINOUS FLUX	ORDER CODE
5.9 W 5.6Vf 1050 mA	414 lm	0 4 8 - 1 6 3 0 :: 1 □ 8 W

Mounting accessories

SPECIAL MOUNTING TOOL

TYPE	Ø-H (mm)	ORDER CODE
SPIO 20	73-107	0 4 8 - 1 6 9 0 0 0 0

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
600 mA max. 43V non DIM	η 85 %	147-44-22	0 0 2 - 9 0 7 8 3
600 mA max. 46V DALI-2	η 85 %	143-43-30	0 0 2 - 9 0 7 8 4
1050 mA max. 25V non DIM	η 85 %	111-38-28	0 0 2 - 9 0 7 8 7
1050 mA max. 42V DALI-2	η 85 %	143-43-30	0 0 2 - 9 0 7 8 8

revision opening required

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220-240 V AC 160 W 48V DC constant voltage	72-90-63	0 0 5 - 6 5 2 0 2 1 0
LED DRIVER DALI-2 DT6 1-2 addr. 200–1050 mA settable const. current 2×42W 48V DC U _{OUT} 10–40V	36-88-59	0 0 5 - 6 1 2 1 0 3 0

for more details and components see XAL 22 catalog, page 980

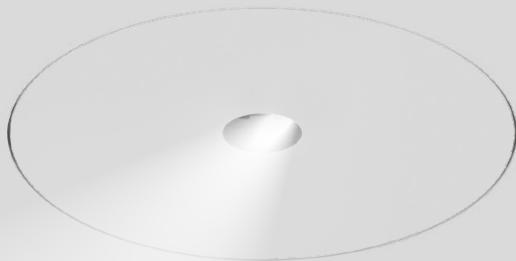
INSET POWER is the current consumption excluding any ballast

LUMINOUS FLUX value calculated for 3000 K, CRI ≥ 90, colour white, lens wide flood, 2700 K -3%

Private Residence
Visualisation







reddot winner 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; or with trim; 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; o con borde alrededor; 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

Quickinfo

2700 K, 3000 K
CRI ≥ 90, 3 SDCM
up to 60 lm/W
L95 @ 50000 h
non DIM, DALI-2

Types

downlight		ø 63
adjustable		ø 105

Colours



Light distributions



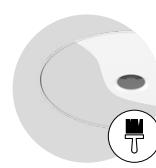
version with
trim available



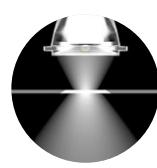
10 mm light
output area



trimless
installation



paintable
cover



LFO lens
technology

Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5

MATERIAL COLOUR	
<input type="radio"/> traffic white RAL9016	

paintable cover

BEAM ANGLE	
flood 35°	F
wide flood 44°	W

Options on request

COLOUR TEMPERATURE	
4000K	

CONCRETE HOUSING	
primed concrete ceiling	
exposed concrete ceiling	



SPIO 60 downlight

	CRI ≥90		1 ADDR.				
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DOWNLIGHT

INSET POWER	LUMINOUS FLUX	ORDER CODE
11.9W 12Vf 1050mA	718lm	0 4 8 - 1 5 1 0 :: 1 7 ▲

Mounting accessories

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

COLOUR	ORDER CODE
<input type="radio"/> traffic white RAL9016	0 4 8 - 2 6 9 6 1 1 7

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

COLOUR	ORDER CODE
<input type="radio"/> traffic white RAL9016	0 4 8 - 1 5 9 7 2 0 7
● jet black RAL 9005	0 4 8 - 1 5 9 7 2 0 8

SPIO 60 adjustable

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ADJUSTABLE

INSET POWER	LUMINOUS FLUX	ORDER CODE
11.9W 12Vf 1050mA	685lm	0 4 8 - 1 5 2 0 :: 1 7 ▲

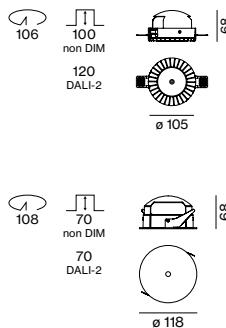
Mounting accessories

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

COLOUR	ORDER CODE
<input type="radio"/> traffic white RAL9016	0 4 8 - 1 5 9 8 1 0 7

MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

COLOUR	ORDER CODE
<input type="radio"/> traffic white RAL9016	0 4 8 - 1 5 9 7 1 0 7
● jet black RAL 9005	0 4 8 - 1 5 9 7 1 0 8



Electrical accessories

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

TYPE	EFFICIENCY	L-W-H (mm)	ORDER CODE
1050 mA non DIM	η 85 %	111-38-28	0 0 2 - 9 0 7 8 7
1050 mA DALI-2	η 85 %	143-43-30	0 0 2 - 9 0 7 8 8

DIN RAIL COMPONENTS

TYPE	W-H-D (mm)	ORDER CODE
POWER SUPPLY 220–240V AC 160W 48V DC constant voltage	72-90-63	0 0 5 - 6 5 2 0 2 1 0
LED DRIVER DALI-2 DT6 1–2 addr. 200–1050 mA settable const. current 2×42W 48V DC U _{OUT} 10–40V	36-88-59	0 0 5 - 6 1 2 1 0 3 0

for more details and components see XAL 22 catalog, page 980

INSET POWER is the current

consumption excluding any ballast

LUMINOUS FLUX value calculated for 3000 K,

CRI ≥ 90, colour white, lens wide flood,

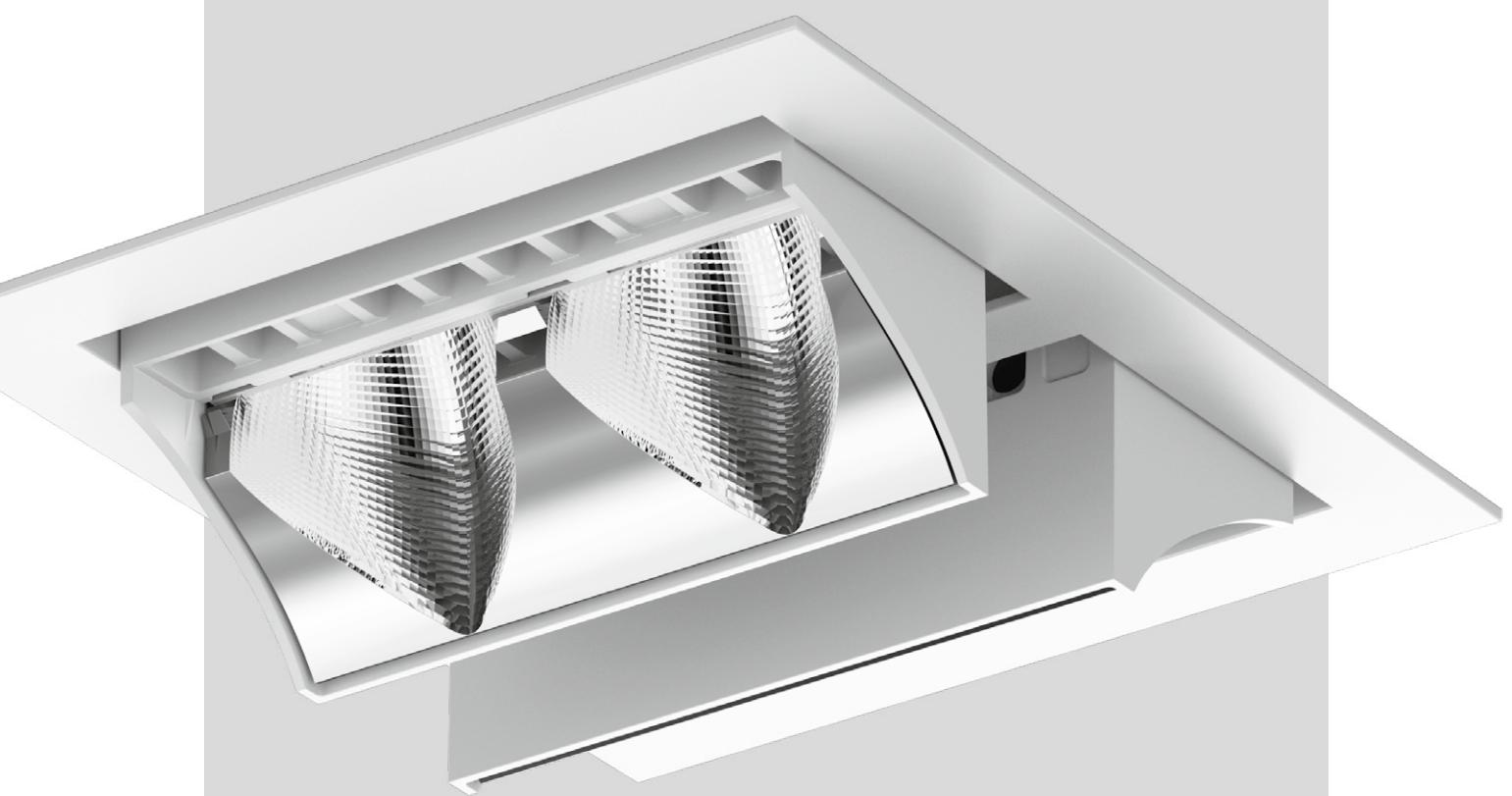
2700 K -5%

Private Residence
Visualisation





High-precision shelf lighting



SQUADRO

EN SQUADRO is a track-mounted and recessed spotlight, in a two-lamp single- or double-sided version, 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 %.

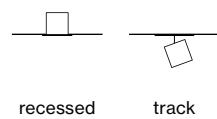
ES SQUADRO es una luminaria empotrable y de carril electrificado para el comercio minorista con una variante unilateral o bilateral de dos flujos de luz que combina seis importantes requisitos de las tiendas en una sola luminaria. La presentación brillante de artículos se consigue mediante reflectores de superficie compleja con óptica facetada: estos dirigen la luz con gran exactitud y precisión a los estantes y zonas de paso. La luz dirigida genera un efecto de modelado en los artículos, creando 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 una iluminación general suficiente. Las luminarias SQUADRO están completamente libres de deslumbramiento transversal y longitudinal, siendo además extremadamente eficientes en su balance energético con un rendimiento superior al 90 %.

Types



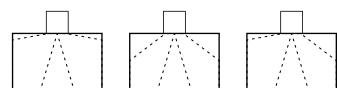
single-sided 1x2	double-sided 2x2	single-sided 1x2	double-sided 2x2
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Mountings



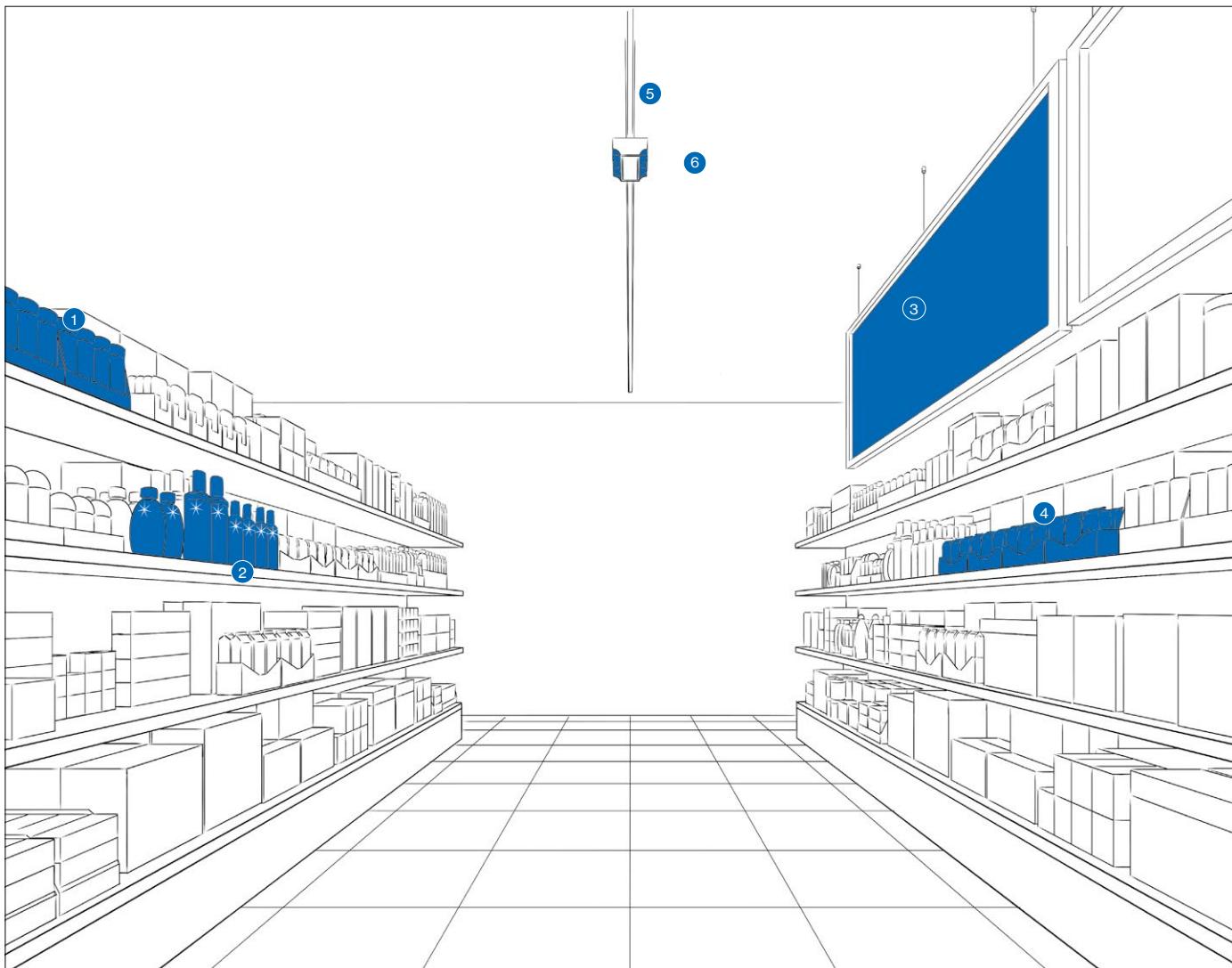
recessed track

Light distributions



wall floor shelf floor wall/shelf floor

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.

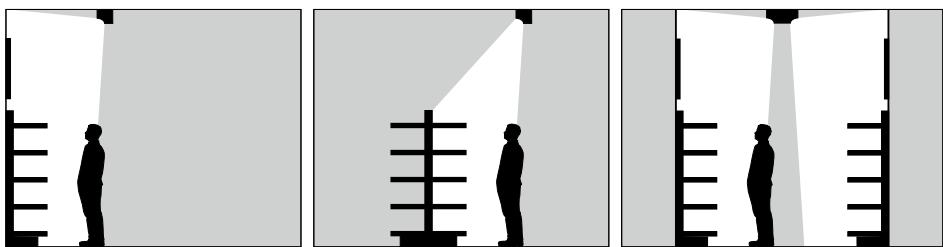
6 **EN** Transverse glare control additionally prevents glare from any viewing direction.

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.

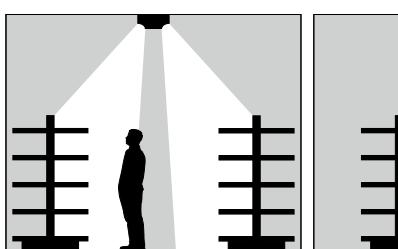
ES SQUADRO se adapta a los diversos requisitos y distribuciones de las tiendas con sus cinco variantes dotadas de distintos modos de proyección. La orientación perfecta garantiza que un pequeño número de luminarias puedan proyectar la máxima luz posible sobre los artículos. SQUADRO se adapta a las necesidades 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)

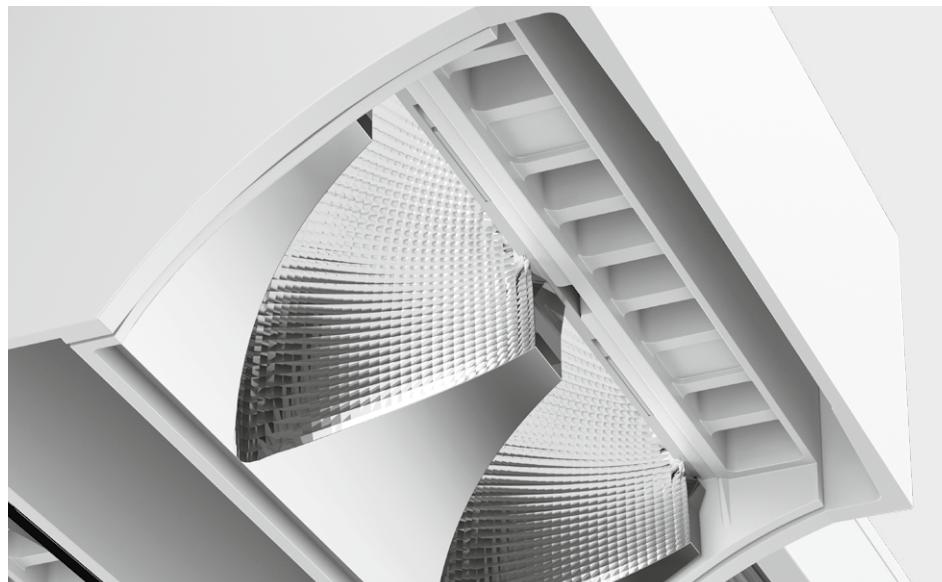
Shelf Floor (single-side)

Wall Floor (double-side)



Shelf Floor (double-side)

Shelf / Wall Floor



Unique reflector technology

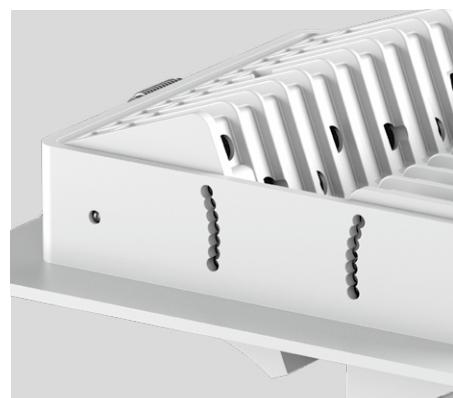
EN Custom free-form reflectors ensure high-precision light control; each SQUADRO achieves an efficiency of over 90 per cent. The spotlights enjoy optimum glare control through the curved shape and secondary reflector technology.

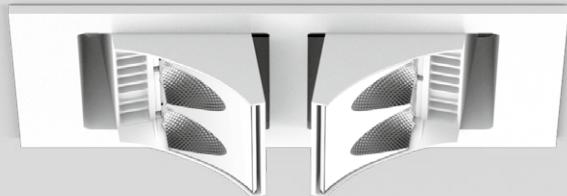
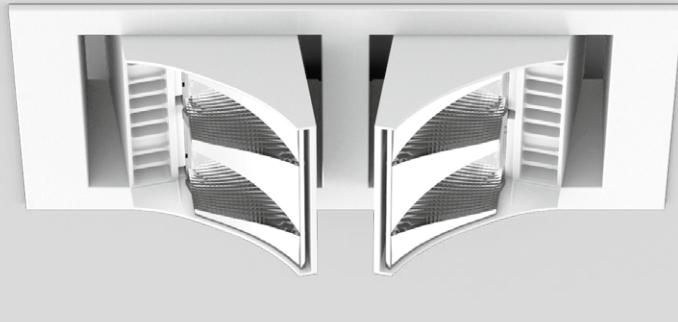
ES Los reflectores proporcionan un direccionamiento de la luz extremadamente preciso. Cada SQUADRO ofrece un rendimiento luminoso superior al 90 por ciento. La forma y la tecnología de reflectores de los proyectores garantizan una óptima prevención del deslumbramiento.

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.





SQUADRO wallwasher

recessed

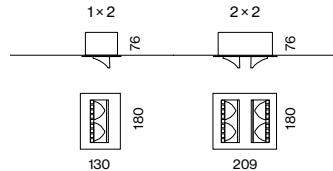
EN Recessed ceiling spotlight in die cast aluminium in two different types (2 lamps or 2x2 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); with trim; surface powder coated; installation without tools using snap spring closure; aisle spotlight with special, multi-free-form, 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; IP40 protection glass available as an accessory

ES Proyector para empotrar en el techo de fundición de aluminio en 2 diferentes variantes y con 2 módulos de iluminación diferentes con marco; superficie con recubrimiento de pintura en polvo; sencilla instalación sin herramientas mediante un enganche elástico; Proyector para zonas de pasillos con reflectores especiales de múltiples superficies de formas libres con óptica facetada para una orientación de la luz sumamente precisa; iluminación precisa de estanterías y de zonas de pasillos, evitando de forma óptima el deslumbramiento longitudinal para un elevado confort visual en la zona del pasillo, módulos de iluminación ajustables; COB que proporciona una máxima eficiencia; LEDS de eficiencia que proporcionan una alta reproducción cromática; vidrio de protección IP40 disponible como accesorio

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 134 lm/W
L80 @ 50 000 h
non DIM, DALI-2

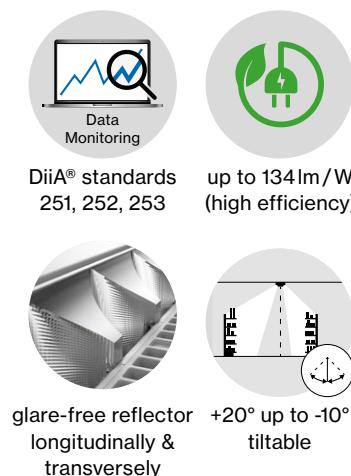
Types



Colours

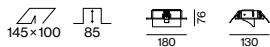


Light distributions

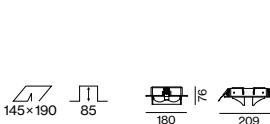


Order options

COLOUR TEMPERATURE	
3000K	0
4000K	1



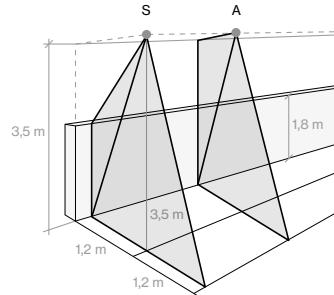
CONTROL	
non DIM	1
DALI-2	3



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

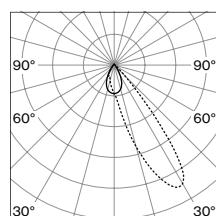
*only for 2×2 lamps



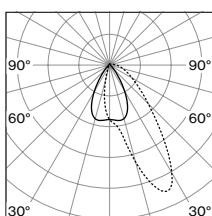
Options on request

COLOUR RENDERING INDEX
CRI ≥ 80

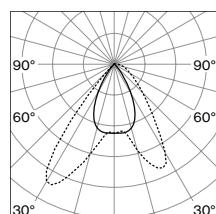
Light distributions



1×2 lamps
shelf floor washer



1×2 lamps
wall floor washer



2×2 lamps
1×shelf/1×wall floor washer

LUMINOUS FLUX value calculated for 4000 K
CRI ≥ 90, colour white, wall floor washer
3000 K -5%

SQUADRO wallwasher trim



1×2 LAMPS SINGLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
36 W	4720 lm	0 4 9 - 2 0 1 2 :: □ ▲



2×2 LAMPS DOUBLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
72 W	2 × 4720 lm	0 4 9 - 2 0 2 0 :: □ ▲

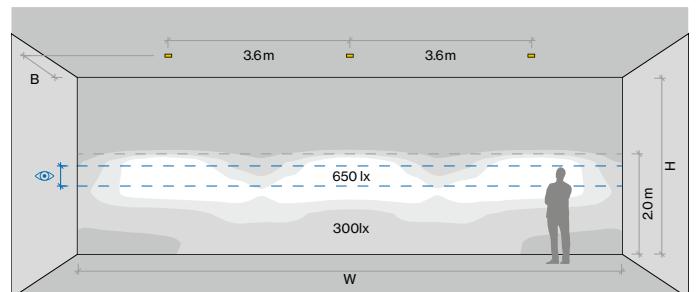
Optical accessories

IP 40 PROTECTION GLASS

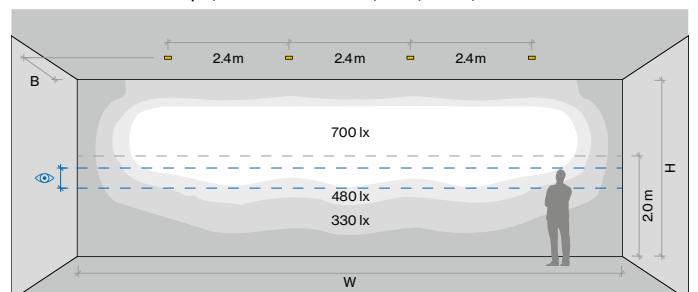
TYPE	ORDER CODE
1×2 lamps/single-sided	0 4 9 - 2 9 1 0 0 1 0
2×2 lamps/double-sided	0 4 9 - 2 9 2 0 0 1 0

Technical data

SQUADRO 1×2 lamps, shelf wall washer, trim, 36 W, 3000 K



SQUADRO 1×2 lamps, wall floor washer, trim, 36 W, 3000 K



ROOM VALUES

Wall dimensions H = 3.5 m | W = 10.8 m
Distance to wall B = 1.3 m
Aisle width 2.6 m
Reflection factor 0.7 | 0.7 | 0.2
Maintenance factor 0.9

CALCULATION SURFACE

Surface dimensions 10.8 × 3.5 m
Surface height 0 – 3.5 m
Eye level 1.35 m – 1.75 m

Euroshop Dusseldorf, DE –
by blocher partners







SQUADRO wallwasher

track

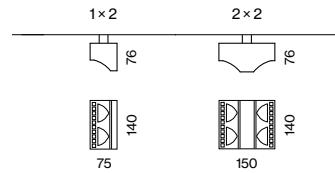
EN Track light in die cast aluminium in two different types (2 lamps or 2x2 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); surface powder coated; aisle spotlight with special, multi-free-form, facet effect surface reflectors for high precision light control; 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 Proyector en riel electrificado de fundición de aluminio en 2 diferentes variantes y con 2 módulos de iluminación diferentes; superficie con recubrimiento de pintura en polvo; Proyector para zonas de pasillos con reflectores especiales de múltiples superficies de formas libres con óptica faceteada para una orientación de la luz sumamente precisa; iluminación precisa de estanterías y de zonas de pasillos, evitando de forma óptima el deslumbramiento longitudinal para un elevado confort visual en la zona del pasillo, módulos de iluminación ajustables; COB que proporciona una máxima eficiencia; LEDs de eficiencia que proporcionan una alta reproducción cromática; vidrio de protección IP40 disponible como accesorio; incluye accesorio para la correcta alineación de la luminaria

Quickinfo

3000K, 4000K
CRI≥90, 3 SDCM
up to 134lm/W
L80 @ 50 000 h
non DIM, DALI-2

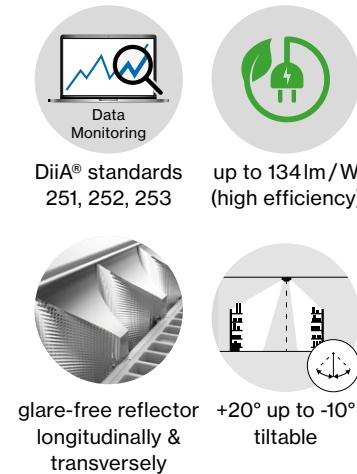
Types



Colours



Light distributions



Order options

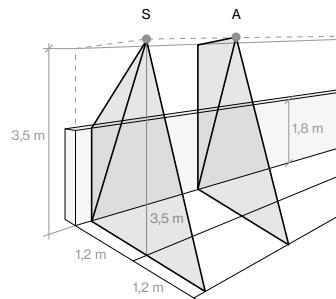
COLOUR TEMPERATURE	
3000K	0
4000K	1

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 2×2 lamps

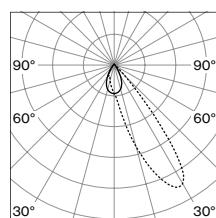


Options on request

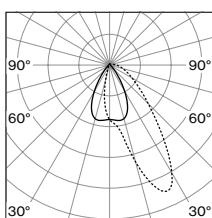
COLOUR RENDERING INDEX
CRI ≥ 80

CONTROL
DALI-2 (2×2 lamps)

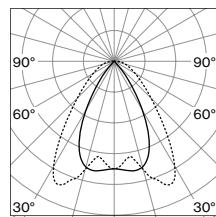
Light distributions



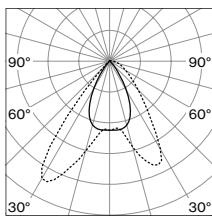
1x2 lamps
shelf floor washer



1x2 lamps
wall floor washer



2x2 lamps
wall floor washer



2x2 lamps
1xshelf/1xwall floor washer

LUMINOUS FLUX value calculated for 4000 K
CRI ≥ 90, colour white, wall floor washer
3000 K - 5%

SQUADRO wallwasher track



1x2 LAMPS SINGLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
36 W	4720 lm	1 4 9 - 2 2 1 0 :: □ ▲



2x2 LAMPS DOUBLE-SIDED

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
72 W	2 × 4720 lm	1 4 9 - 2 2 2 0 :: 1 □ ▲

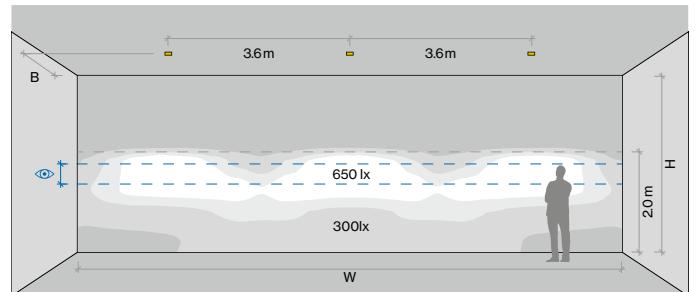
Optical accessories

IP 40 PROTECTION GLASS

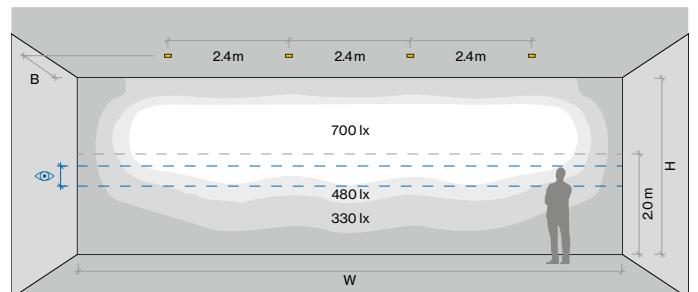
TYPE	ORDER CODE
1x2 lamps/single-sided	0 4 9 - 2 9 1 0 0 1 0
2x2 lamps/double-sided	0 4 9 - 2 9 2 0 0 1 0

Technical data

SQUADRO 1x2 lamps, shelf wall washer, trim, 36 W, 3000 K



SQUADRO 1x2 lamps, wall floor washer, trim, 36 W, 3000 K



ROOM VALUES

Wall dimensions H = 3.5 m | W = 10.8 m
Distance to wall B = 1.3 m
Aisle width 2.6 m
Reflection factor 0.7 | 0.7 | 0.2
Maintenance factor 0.9

CALCULATION SURFACE

Surface dimensions 10.8 × 3.5 m
Surface height 0 – 3.5 m
Eye level 1.35 m – 1.75 m

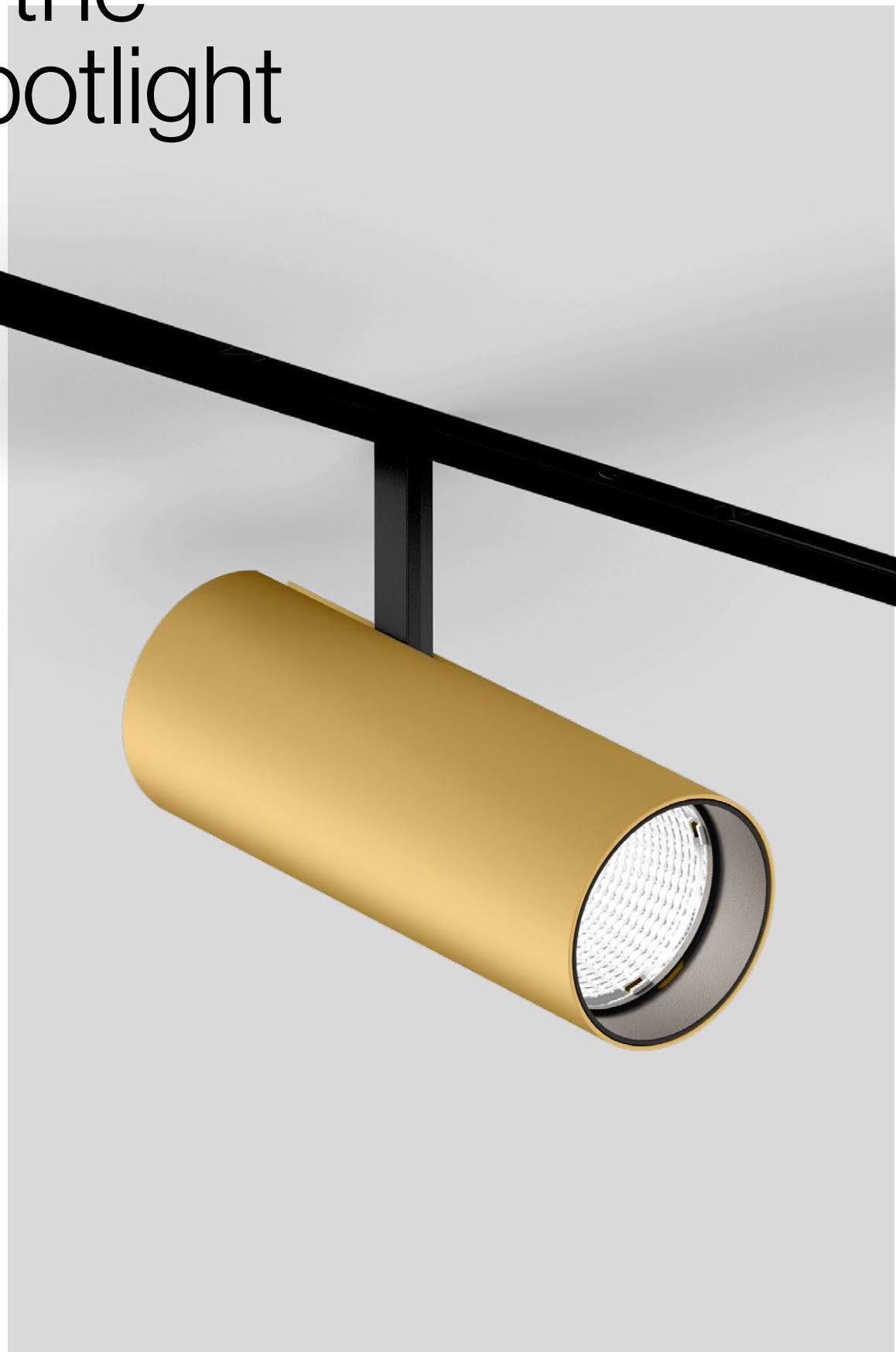
Jelmoli Store
Zurich, CH



Oasis Store Melbourne, AU –
by Sync Design



In the spotlight

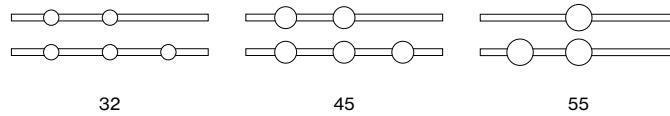


BO intrack

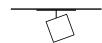
EN Elegant and flexible – this is what characterises the BO track spotlight series. Several sizes and different beam angles offer enormous freedom in setting the scene. The Intrack versions are available as one-, two-, or three-flame spotlights. In addition, the spots can be rotated and pivoted at different angles, making BO an ideal spotlight for shops and staging areas. Different housing and light colours (2700 K, 3000 K, or 4000 K) offer flexibility in different architectural concepts and promise very good colour rendering of up to CRI \geq 95 (2-SDCM).

ES Belleza y flexibilidad son las características definitorias de los focos de carril electrificado de la serie BO. Sus diversos tamaños y ángulos de apertura ofrecen una gran libertad a la hora de la puesta en escena. Las variantes «intrack» de inserción en carril están disponibles como focos simples, dobles o triples. Además, los proyectores pueden girarse e inclinarse en distintos ángulos, lo que convierte a BO en una luminaria ideal para tiendas y superficies de presentación de artículos. Diferentes carcasa y temperaturas de color (2700 K, 3000 K o 4000 K) proporcionan flexibilidad en la realización de distintos esquemas arquitectónicos y garantizan una reproducción cromática excelente de hasta IRC \geq 95 (2 SDCM).

Types



Mounting



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 unas con otras.



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 permite gozar de una libertad de diseño aún mayor y adaptar la luminaria BO a su proyecto concreto. Hallará más información sobre nuestra paleta de colores en xal.com/es/servicios/colores-especiales.

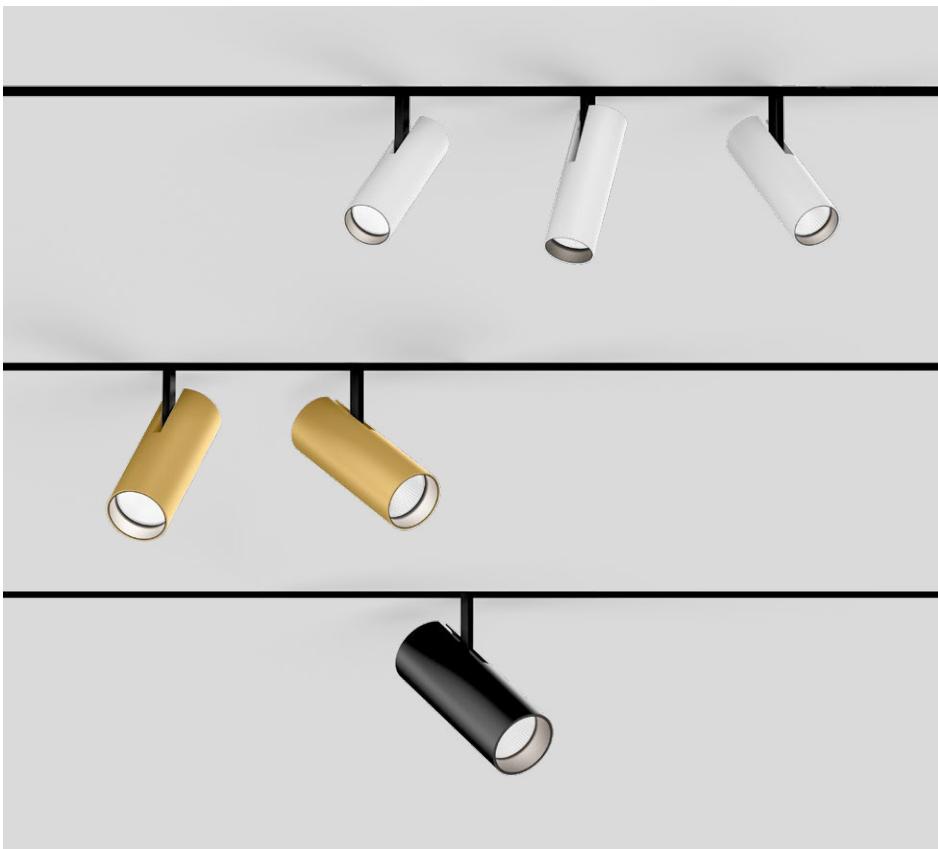


xal.com/colours

Variety

EN The BO Intrack versions are available as single-, double-, or triple-flame spotlights. The spotlight heads are available in three different diameters and different housing and light colours (2700 K, 3000 K, or 4000 K), offering even more flexibility for unique projects. The multi-flame version of the Inset requires only one control gear, which means that the individual spotlights are closer together. This makes these variants not only space-saving but also more cost-efficient.

ES Las variantes BO intrack están disponibles como focos de carril simples, dobles o triples. Los cabezales de foco en tres diámetros distintos y diferentes colores de carcasa y temperaturas de color (2700 K, 3000 K o 4000 K) ofrecen aún más flexibilidad para la realización de proyectos excepcionales. El inserto multifoco precisa de un único mecanismo de control, con lo que los distintos focos quedan colocados más cerca unos de otros. Así, estas variantes no solo ahorran espacio, sino que también son más económicas.

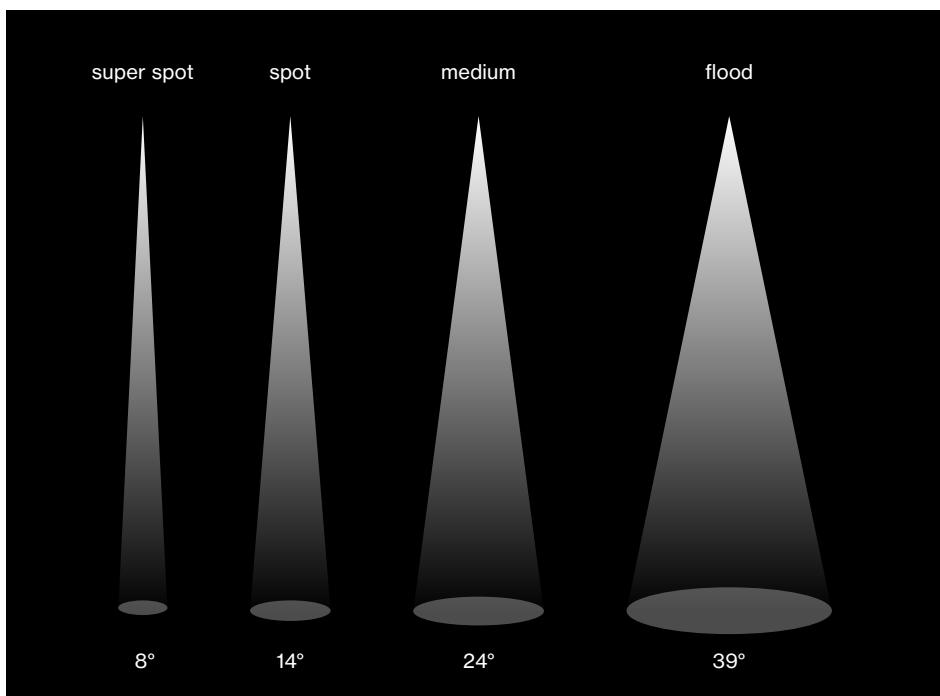




Intrack

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.

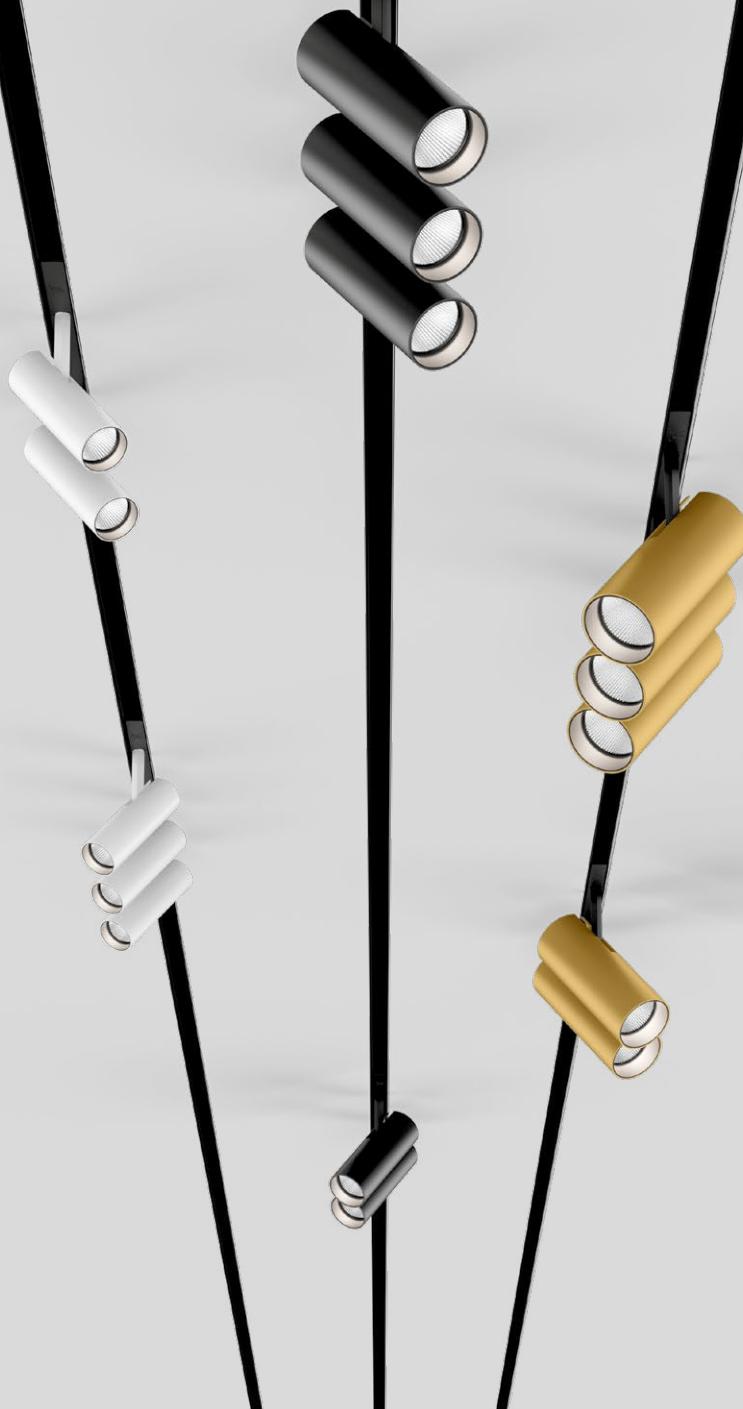
ES Ajuste flexible, fácil montaje: en la variante embutida en carril, BO ofrece distintos tamaños y ángulos de apertura. Esto permite realizar puestas en escena luminosas siempre nuevas, desde la presentación de artículos y productos con acentos puntuales hasta la iluminación precisa de objetos de arte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



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° tilttable.

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°.



BO 32 / 45 / 55

intrack

EN Track light made of die-cast aluminium; powder coated; spotlight head rotates 360° and tilts 90°; choice of single lamp, double lamps or triple lamp; converter in the adapter; with optional high quality lens system with precise radiation characteristic; or 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 or high power LEDs - maximum efficiency; no multiple shadows; energy-eff. LEDs - 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 Proyector de carril electrificado de fundición de aluminio inyectado; recubierto de polvo; cabezal de proyector giratorio de 360° y orientable 90°; disponible con flujo de luz simple, doble o triple; driver en el adaptador; opcionalmente con sistema óptico de lentes de alta calidad con precisa característica de emisión; o reflector de alta calidad vaporizado de aluminio con revestimiento de facetas esféricas; característica de emisión precisa con diferentes ángulos de emisión; buen control del deslumbramiento mediante plano de punto de luz retranqueado; los accesorios ópticos como accesorios; tecnología COB o LEDS de alta potencia - máxima eficiencia; no sombras múltiples; LED energét. efic. - excelente reprod. crom.; adaptador para instalación sin herramientas o desplazamiento en diferentes carriles electrificados de 3 fases; adaptador enrasado con la barra conductora

Quickinfo

2700 K, 3000 K, 4000 K
CRI ≥ 90, 2 SDCM
BO 32 up to 69 lm/W
BO 45 up to 91 lm/W
BO 55 up to 85 lm/W
L80 @ 50 000 h
DALI-2

Types

	BO 32	BO 45	BO 55
	100	120	140
Ø	32	45	55

Colours



Light distributions



only one adapter with 2 or 3 lamps



360° rotatable
90° tiltable



glare control via
honeycomb louver



oval lens for oval
light illumination



CRI ≥ 95
2 SDCM

Order options

COLOUR TEMPERATURE	
2700K	4
3000K	5
4000K	6

CONTROL	
DALI-2	

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

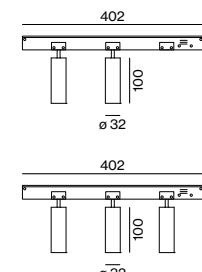
BEAM ANGLE BO 55	
spot 17°	S
medium 23°	M
flood 37°	F

Options on request

COLOUR RENDERING INDEX
CRI ≥ 95, 2 SDCM



BO 32 intrack

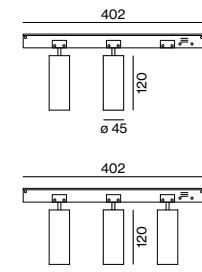


TRACK LIGHT

TYPE	SYS. POWER	LUMINOUS FLUX	ORDER CODE
2 lamps	20.5W	1440lm	180-7140::3▲
3 lamps	28.8W	2020lm	180-7150::3▲



BO 45 intrack

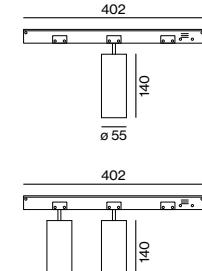


TRACK LIGHT

TYPE	SYS. POWER	LUMINOUS FLUX	ORDER CODE
2 lamps	14.2W	super spot 2×320lm	180-7240::3▲V
	30W	spot 2×1020lm	180-7240::3▲S
	32W	med., flood 2×1330lm	180-7240::3▲M
	45W	spot 3×1020lm	180-7250::3▲S
3 lamps	42W	med., flood 3×1180lm	180-7250::3▲M



BO 55 intrack



TRACK LIGHT

TYPE	SYS. POWER	LUMINOUS FLUX	ORDER CODE
1 lamp	24.8W	1940lm	180-7330::3▲
2 lamps	43W	3460lm	180-7340::3▲

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

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

OVAL LENS

TYPE	Ø H (mm)	ORDER CODE
BO 32	30·3	007-1965860
BO 45	42·3	007-1965880
BO 55	50·3	007-1965890

SOFT LENS

TYPE	Ø H (mm)	ORDER CODE
BO 32	30·3	007-1965960
BO 45	42·3	007-1965980
BO 55	50·3	007-1965990

Euroshop
Dusseldorf, DE –
by blocher partners





BALMAIN
PARIS



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



Universal expert

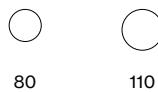


VARO

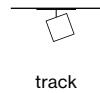
EN As a track-mounted spotlight, VARO focuses on the essentials and can be used universally. It is available in two different sizes and, thanks to its 355° rotation and 90° swivelling capability, is extremely flexible in use. This flexibility is supported by the fact that the spotlights can be inserted and moved along the track without tools. It is ideal for use in shops whose interior design is continually evolving. In addition, the powerful VARO provides maximum efficiency for the illumination of products. The high-quality reflector from VARO ensures a particularly precise beam characteristic at different angles, all with an excellent colour rendering up to CRI ≥ 90 . Depending on the desired spatial effect, you can choose between the 3000 K and 4000 K light colours.

ES VARO es un foco de carril electrificado 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 por su colocación sin necesidad de herramienta y el sencillo desplazamiento de los focos en el carril electrificado, siendo el elemento perfecto para tiendas sujetas a cambios de distribución constantes. Además, el potente VARO ofrece la máxima eficacia en la iluminación de artículos. El magnífico reflector de VARO garantiza una proyección altamente precisa en ángulos distintos, a lo que se le añade una sólida reproducción cromática de hasta IRC ≥ 90 . En función del efecto deseado, es posible elegir entre temperaturas de color de 3000 K y 4000 K.

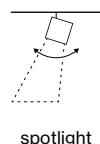
Types



Mounting



Light distribution





VARO 80 S

track

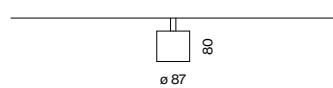
EN Track light made of die-cast aluminium; surface powder coated; spotlight head 355° rotatable and 90° tiltable; integrated converter in the plastic adapter; high quality reflector with spherical facet finish; precise radiation characteristics with different beam angles; installed and exchanged without tools; optical attachments as accessories; optical attachments can be combined; COB (Chip on Board) technology for maximum efficiency; variants with >120lm/W available; 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 Proyector de carril electrificado de fundición de aluminio inyectado; superficie con recubrimiento de pintura en polvo; proyector giratorio 355° y orientable 90°; convertidor integrado en adaptador de plástico; reflector alta calidad con óptica de bisel esférica; característica de emisión precisa con diferentes ángulos de emisión; intercambiable sin herramienta; los accesorios ópticos como accesorios; accesorios ópticos combinables entre sí; con tecnología COB para proporcionar una máxima eficiencia; variantes disponibles con >120lm/W; no proporciona sombras múltiples; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; adaptador para instalación sin herramientas o desplazamiento en diferentes carriles electrificados de 3 fases

Quickinfo

3000K, 4000K
CRI≥90, 3 SDCM
up to 129lm/W
L95/50 000h
non DIM, DALI-2

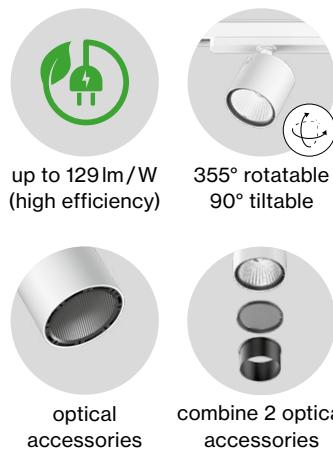
Type



Colours



Light distributions



Order options

COLOUR TEMPERATURE	
3000K	0
4000K	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

DALI-2 (high efficiency)



VARO 80 S track



TRACK LIGHT

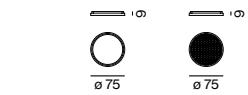
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
28.5W	2600lm	1 8 0 - 6 4 2 0 ::::: 1 □▲
45W	3610lm	1 8 0 - 6 4 2 1 ::::: 1 □▲

HIGH EFFICIENCY

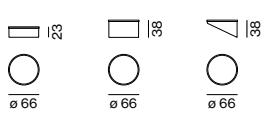
SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
21.3W	2730lm	1 8 0 - 6 4 2 2 :: 1 □▲
25.4W	3160lm	1 8 0 - 6 4 2 3 :: 1 □▲

Optical accessories

LENSES AND HONEYCOMB LOUVER



SNOOT



TYPE	Ø H (mm)	ORDER CODE
linear prismatic lens	75.9	0 8 0 - 6 4 0 2 1 1 0 P
honeycomb louver	75.9	0 8 0 - 6 4 0 1 1 1 8



possibility to combine different optical accessories (max. 2 pieces)

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

s.Oliver Store Munich, DE –
by Kitzig Interior Design GmbH
including lighting design







VARO 110 S

track

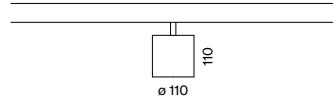
EN Track light made of die-cast aluminium; surface powder coated; spotlight head 35° rotatable and 90° tiltable; integrated converter in the plastic adapter; high quality reflector with spherical facet finish; precise radiation characteristics with different beam angles; installed and exchanged without tools; optical attachments as accessories; optical attachments can be combined; COB (Chip on Board) technology for maximum efficiency; variants with >120lm/W available; 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 Proyector de carril electrificado de fundición de aluminio inyectado; superficie con recubrimiento de pintura en polvo; proyector giratorio 355° y orientable 90°; convertidor integrado en adaptador de plástico; reflector alta calidad con óptica de bisel esférica; característica de emisión precisa con diferentes ángulos de emisión; intercambiable sin herramienta; los accesorios ópticos como accesorios; accesorios ópticos combinables entre sí; con tecnología COB para proporcionar una máxima eficiencia; variantes disponibles con >120lm/W; no proporciona sombras múltiples; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; adaptador para instalación sin herramientas o desplazamiento en diferentes carriles electrificados de 3 fases

Quickinfo

3000K, 4000K
CRI≥90, 3 SDCM
up to 132lm/W
L95/50 000h
non DIM, DALI-2

Type



Colours



Light distributions



Order options

COLOUR TEMPERATURE	
3000K	0
4000K	1

CONTROL	
non DIM	1
DALI-2	3

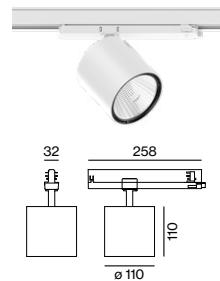
MATERIAL COLOUR	
○ traffic white RAL 9016	7
● jet black RAL 9005	8

BEAM ANGLE	
spot 17°	S
medium 28°	M
flood 38°	F
wide flood 65°	W

Options on request

LUMINOUS FLUX
>5000lm

CONTROL
Casambi
DALI-2 (high efficiency)



VARO 110 S track



TRACK LIGHT

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
29.6 W	3370lm	1 8 0 - 6 5 2 0 :: □ ▲
39 W	4300lm	1 8 0 - 6 5 2 1 :: □ ▲

HIGH EFFICIENCY

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
25.7 W	3400lm	1 8 0 - 6 5 3 0 :: 1 □ ▲
36 W	4520lm	1 8 0 - 6 5 3 1 :: 1 □ ▲

Optical accessories

LENSES AND HONEYCOMB LOUVER

TYPE	Ø H (mm)	ORDER CODE
oval lens	106.9	0 8 0 - 6 5 0 2 2 1 0
wide flood lens	106.9	0 8 0 - 6 5 0 2 1 1 0 W
honeycomb louver	106.9	0 8 0 - 6 5 0 1 1 1 8

SNOOT

TYPE	Ø H (mm)	ORDER CODE
short	97.23	0 8 0 - 6 5 0 3 1 1 8
medium	97.38	0 8 0 - 6 5 0 3 2 1 8
angle	97.38	0 8 0 - 6 5 0 3 3 1 8

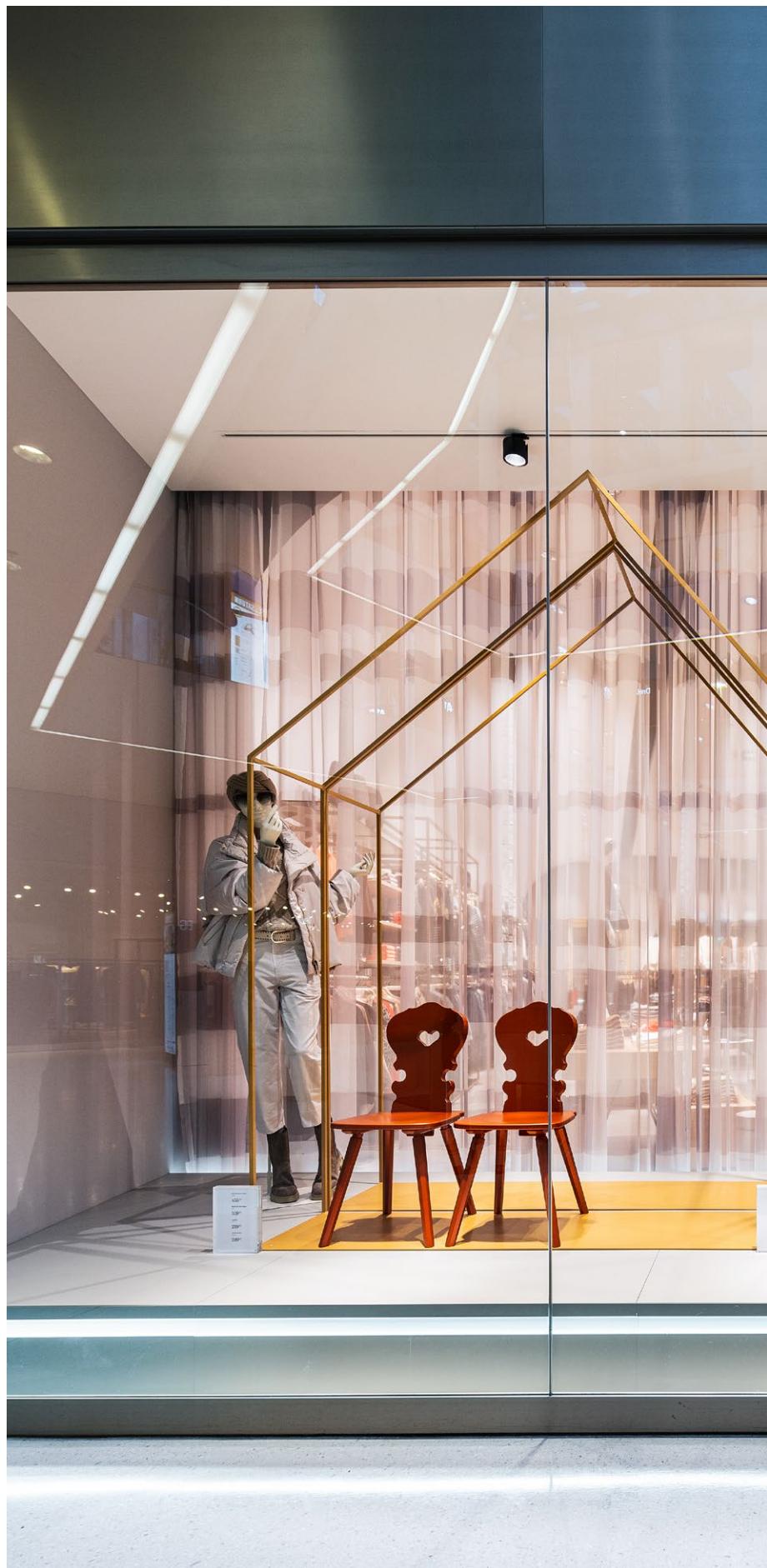


possibility to combine different optical accessories (max. 2 pieces)

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

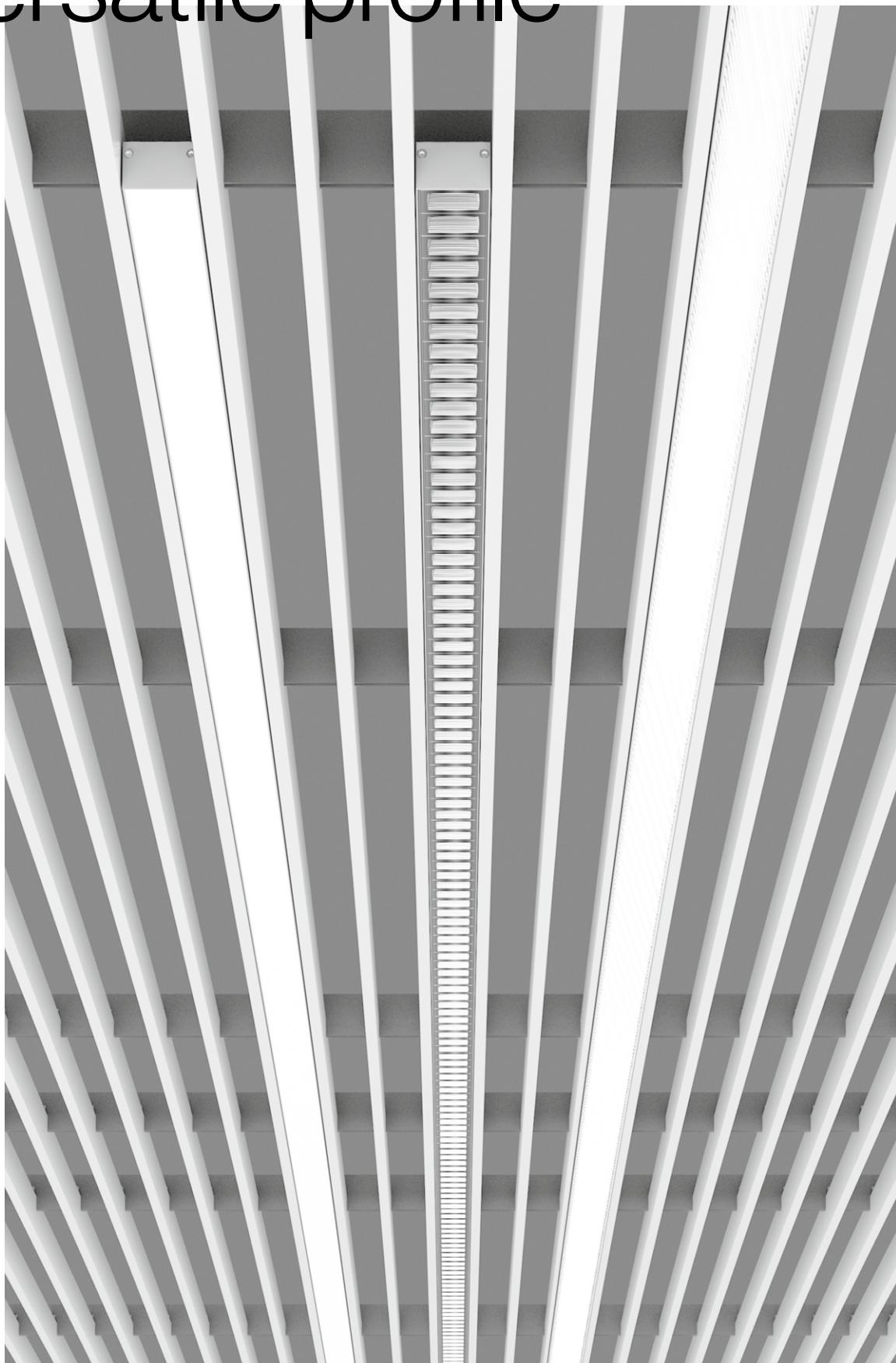
Kastner & Öhler, Kaufhaus Tyrol

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





Versatile profile



MILA system

EN The MILA system luminaire was specially designed for use with slat ceilings and blends seamlessly into the respective room concept in entrance halls and office buildings. In meeting rooms and offices, the luminaire creates an ideal, screen-appropriate work light thanks to the optional addition of reflectors. In the opal cover variant, MILA is suitable for homogeneous room illumination; a reduced glare value is achieved with the optional microprismatic cover. For continuous lighting systems, the flexible Continuous Cover is the best choice. By adding special sensors, the MILA system luminaire becomes a smart lighting system. The sensors can be freely placed in the slatted ceiling and quickly integrated at a later stage. The collected room utilisation data helps to save energy over the long term.

ES La luminaria modular MILA ha sido concebida especialmente para el uso en falsos techos de lamas, y se integra a la perfección en cualquier esquema arquitectónico de vestíbulos y edificios de oficinas. En oficinas y salas de reuniones, la luminaria proporciona una luz de trabajo ideal apta para el uso de pantallas de visualización gracias a la ampliación opcional con reflectores. En la variante con difusor opal, MILA ofrece una iluminación general homogénea, y con el difusor microprismático opcional se consigue un índice de deslumbramiento reducido. El difusor flexible Continuous es la mejor elección para sistemas de luz lineales. Mediante la ampliación con sensores especiales, la luminaria modular MILA se convierte en un sistema de iluminación inteligente. Los sensores pueden colocarse libremente en el techo de lamas e incorporarse rápidamente con posterioridad. Los datos sobre el uso de las salas captados por ellos ayudan a ahorrar energía de forma duradera.

Type □

38

Mounting □□□

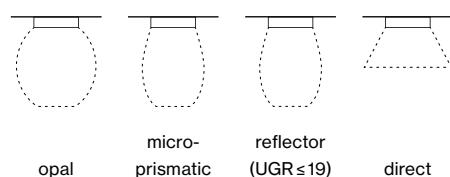
ceiling

Configuration



linear

Light distributions





Advanced sensor technology

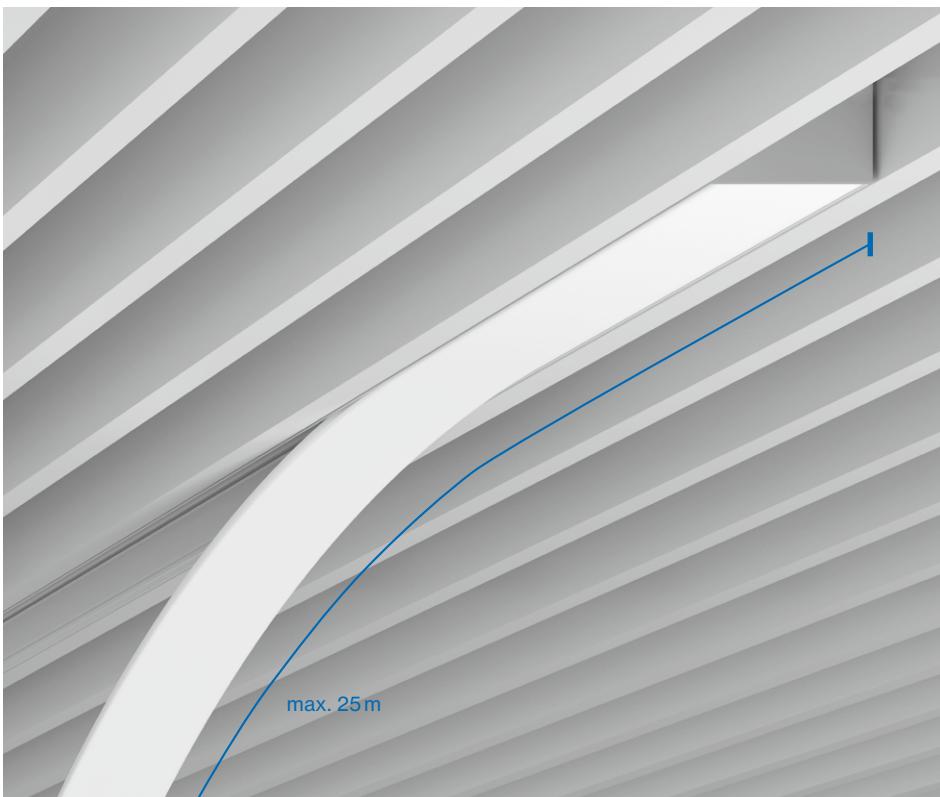
EN By adding special sensors, the MILA system luminaire becomes a smart lighting system. The sensors can be placed freely and flexibly in the slatted ceiling, and can also be integrated quickly and easily at a later stage. With the ESSENTIAL sensor, the lighting dynamically adapts to the ambient brightness and room activity. In addition, the SENSE sensor measures values for temperature, air quality, humidity, and noise level. These data not only provide important insights into the ambient conditions, but also support energy savings over the long term.

ES Mediante la ampliación con sensores especiales, la luminaria modular MILA se convierte en un sistema de iluminación inteligente. Los sensores pueden colocarse libremente en el techo de lamas según las necesidades y también incorporarse de un modo rápido y sencillo con posterioridad. Con el sensor ESSENTIAL es posible adaptar la iluminación dinámicamente a la luminosidad del entorno y a la actividad en la sala. Como complemento, el sensor SENSE mide valores relacionados con la temperatura, la calidad y humedad del aire y el nivel de ruido. Esos datos no solo ofrecen información importante sobre las condiciones ambientales, sino también fomentan el ahorro energético de forma duradera.

Continuous Cover

EN Both the opal and the microprismatic cover are available as continuous versions for the MILA system luminaires. This results in remarkable flexibility, as the length of the cover can be adapted exactly to the system. During installation, the Continuous Cover is simply integrated into the profile, avoiding interfering joints, and creating a pleasantly continuous lighting system.

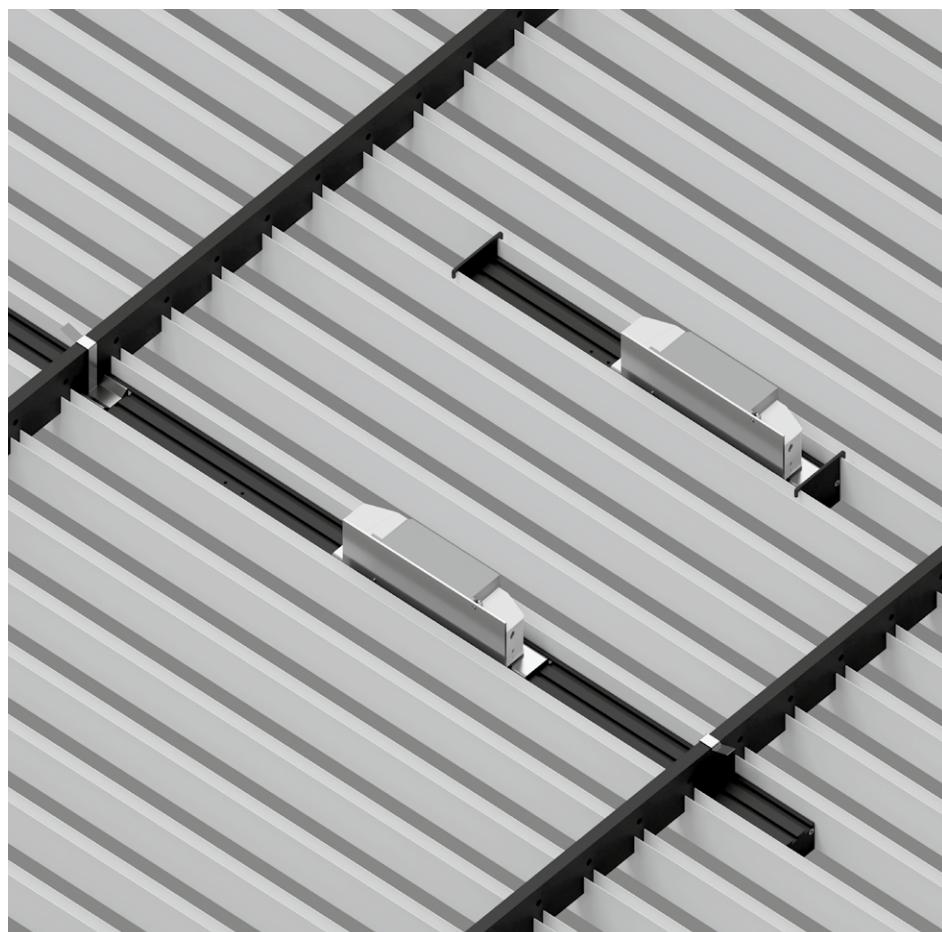
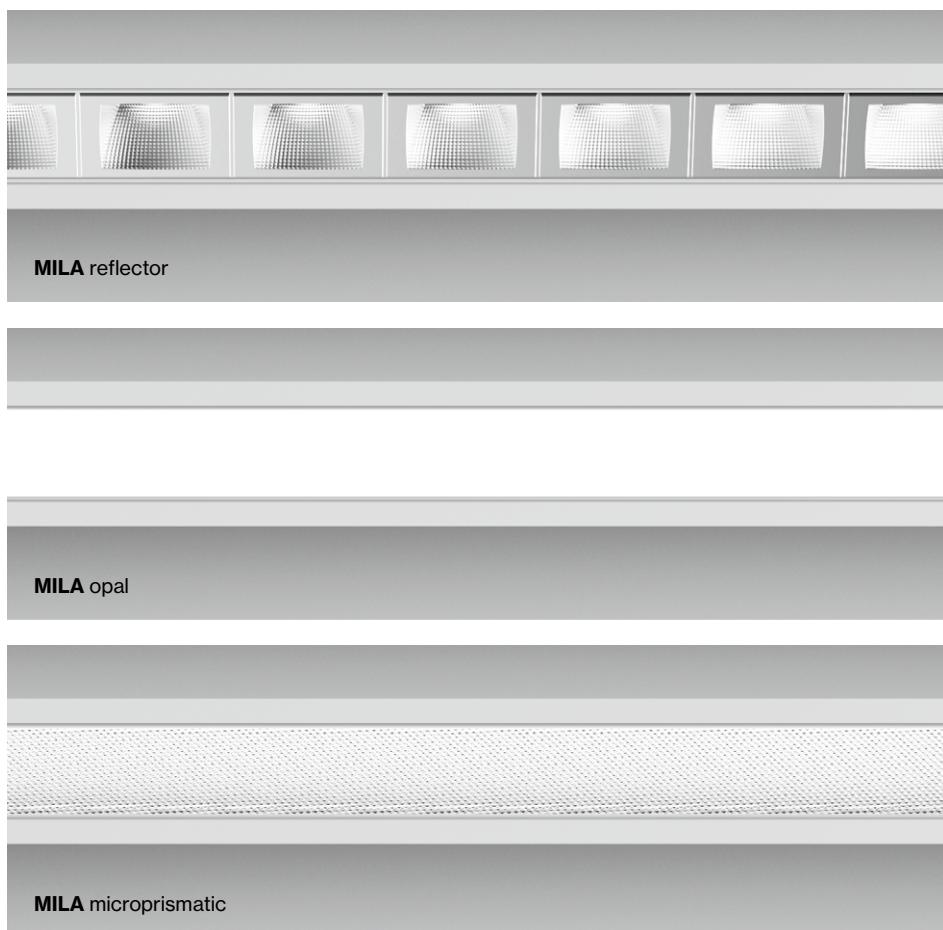
ES Tanto el difusor opal como el microprismático están disponibles en un modelo «Continuous» para las luminarias modulares MILA. Esto ofrece una gran flexibilidad, ya que la longitud del difusor puede adaptarse al sistema de iluminación con exactitud. A la hora del montaje, el difusor Continuous se incorpora fácilmente en el perfil, lo que evita la formación de juntas molestas y permite obtener un magnífico sistema de alumbrado continuo.



Inset variety

EN Whether workplace lighting or general building areas – the MILA system luminaire can be adapted depending on the area of application. For screen-appropriate task lighting, the UGR≤19 glare-reduced reflectors are the right choice. The optionally available opal cover is suitable for homogeneous ambient illumination. The microprismatic with reduced glare value are ideal for pleasantly illuminating entrance areas and corridors.

ES Ya se trate de la iluminación de puestos de trabajo o de zonas generales de edificios, la luminaria modular MILA puede modificarse en función del ámbito de uso. En el caso de una iluminación de puestos de trabajo apta para pantallas de visualización, el uso de reflectores antideslumbrantes con UGR≤19 constituye la elección correcta. El difusor opal disponible opcionalmente es adecuado para un alumbrado general homogéneo. La variante microprismática con un índice de deslumbramiento reducido es perfecta para iluminar zonas de entrada y pasillos de forma agradable.



Mounting

EN MILA can provide the right lighting in any room via sturdy mounting brackets that are hooked into the slatted ceiling. The brackets can be flexibly moved along the luminaire and can thus be positioned as required, or subsequently adjusted. Converters with wiring-through function facilitate electrical installation, as wiring can thus be carried out easily and quickly from one luminaire to another. In addition, the free movement of the converter allows a flexible response to ceiling conditions.

ES Colocada sobre abrazaderas de fijación resistentes que se enganchan al techo de lamas, MILA ofrece una iluminación adecuada en cualquier sala. Las abrazaderas pueden desplazarse a placer a lo largo de la luminaria para reposicionarla o bien para adaptarla posteriormente en función de las necesidades. El driver con función «wiring-through» facilita la instalación eléctrica, ya que permite que el cableado pueda pasarse de luminaria a luminaria de un modo rápido y sencillo. Además, el libre desplazamiento del driver permite la adaptación rápida del sistema a las condiciones del techo.



HAUFE
DECKENSYSTEME

MILA system

ceiling

EN Luminaire housing from extruded aluminium profile, angular design; designed for continuous lighting systems; suitable for installation in the HAUFE louvre ceiling system; surface powder coated; HPO (High Performance Opal) cover or micoprismatic cover in the length of the light inset or continuous cover (both separately available); optional high gloss reflector with faceted design; converter flexible positionable on the luminaire profile; converter suitable for through-wiring; energy-efficient LEDs with very good colour rendering; optionally sensor inset (ESSENTIAL or SENSE) available as accessory

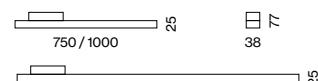
ES Cuerpo de perfil de aluminio con diseño angular; diseñado para la creación de sistemas continuos; apta para integr. en sistema de techo de lamas HAUFE; superficie con recubrimiento de pintura en polvo; difusor HPO (High Performance Opal) o micoprismático en la longitud del inserto luminoso o difusor continuo (deben encargarse por separado); opcional reflector de alto brillo con óptica facetada; driver de libre posicionamiento en el perfil de la luminaria; driver apto para cableado continuo; LEDs de alta eficiencia que proporcionan una alta reproducción cromática; inserto de sensor (ESSENTIAL o SENSE) disponible como accesorio

Quickinfo

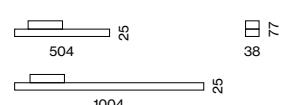
3000 K, 4000 K
CRI \geq 90, 3 SDCM
UGR \leq 19 / $65^\circ \leq 1500 \text{ cd/m}^2$
up to 115 lm/W
up to 103 lm/m
L90 @ 50 000 h
DALI-2
opal, micoprismatic
reflector (UGR \leq 19)

Types

opal / micoprismatic



reflector



Colours

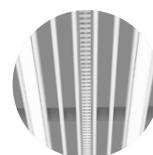


Light distribution



DiiA® standards
251, 252, 253

suitable for
HAUFE ceilings



continuous
lighting system



sensor for
single mounting



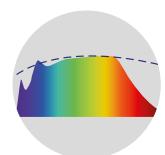
DIN EN 12464-1
UGR \leq 19



up to 115 lm/W
(high efficiency)



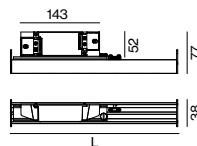
tunable white
2700 – 6500 K



CRI \geq 98
XPECTRUM

Order options

COLOUR TEMPERATURE	<input checked="" type="checkbox"/>
3000K	0
4000K	1



CONTROL
DALI-2

MATERIAL COLOUR	<input checked="" type="checkbox"/>
○ traffic white RAL 9016	7
● jet black RAL 9005	8

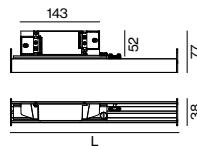
LIGHT OPTIC COVER	<input checked="" type="checkbox"/>
opal	H
microprismatic	Z
reflector (UGR≤19)	

Options on request

COLOUR RENDERING INDEX
CRI≥98 XPECTRUM

COLOUR TEMPERATURE
tunable white 2700–6500K

SLAT CEILING SOLUTION
Hunter Douglas
Interalu SAPPceiling



MILA opal / microprismatic ceiling



SYSTEM LUMINAIRE

SYSTEM POWER	L (mm)	ORDER CODE
15.8W	750	0 4 5 - 9 0 2 2 :: 3 ☑
21W	1000	0 4 5 - 9 0 2 3 :: 3 ☑
25W	1250	0 4 5 - 9 0 2 4 :: 3 ☑
31W	1500	0 4 5 - 9 0 2 5 :: 3 ☑

COVER

TYPE	L (mm)	ORDER CODE
linear	750	0 0 6 - 4 1 0 7 5 1 0 ☐
linear	1000	0 0 6 - 4 1 1 0 0 1 0 ☐
linear	1250	0 0 6 - 4 1 1 2 5 1 0 ☐
linear	1500	0 0 6 - 4 1 1 5 0 1 0 ☐
continuous linear	6000	0 0 6 - 2 1 0 6 0 1 0 ☐
continuous linear	25000	0 0 6 - 2 1 2 5 0 1 0 ☐

LIGHT OPTIC COVER	COLOUR TEMPERATURE	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
opal	3000K	21W/m	2200lm/m	105lm/W
	4000K		2420lm/m	115lm/W
microprismatic	3000K	21W/m	2090lm/m	100lm/W
	4000K		2300lm/m	110lm/W

MILA reflector ceiling



SYSTEM LUMINAIRE

SYSTEM POWER	L (mm)	ORDER CODE
11W	504	0 4 5 - 9 1 2 1 :: 3 ☑ R
22W	1004	0 4 5 - 9 1 2 3 :: 3 ☑ R

LIGHT OPTIC COVER	COLOUR TEMPERATURE	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
reflector (UGR≤19)	3000K	22W/m	2790lm/m	126lm/W
	4000K		2950lm/m	133lm/W

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 4 5 - 9 0 9 0 0 1 ☑

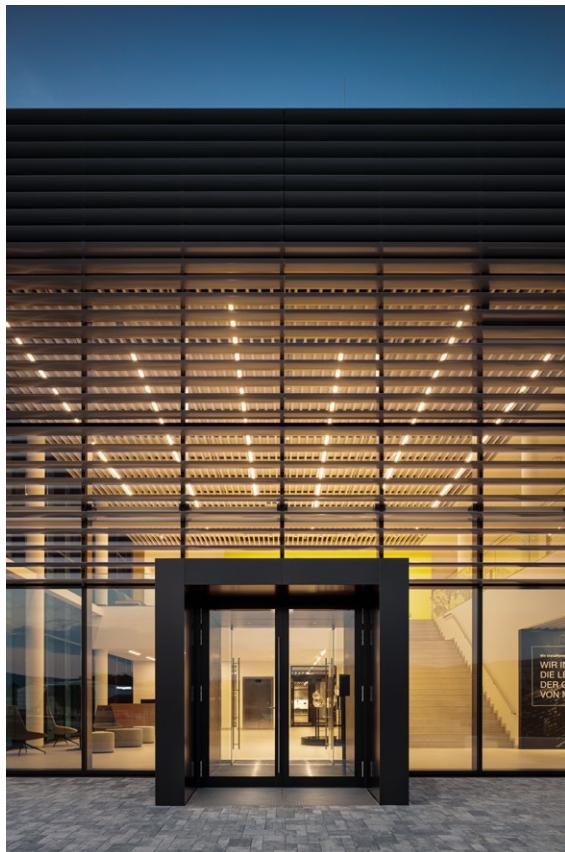
LINEAR CONNECTOR

TYPE	ORDER CODE
mechanical linear connector	0 4 5 - 9 0 9 1 0 1 0

SENSOR DALI-2

TYPE	ORDER CODE
ESSENTIAL (brightness & presence)	0 4 5 - 9 0 9 6 0 1 ☑
SENSE (brightness, presence, temperature, sound pressure, humidity, CO ₂)	0 4 5 - 9 0 9 6 0 2 ☑

Viega GmbH Attersee, AT –
by ATP Planungs- und Beteiligungs AG with
lighting design by Andreas Haidegger





Spotlight your profile



FRAME/MINO 40 system

EN The FRAME 40 and MINO 40 system luminaires set no limits on profile-based ambient lighting. Thanks to special Flex Insets, the system luminaires can be shortened on-site and thus adapted to all conditions. Corner connectors create continuous lighting systems. For particularly uniform room illumination, the profile luminaires are fitted with an opal cover. In addition, spotlight insets can be selected for elegant accent lighting in corridors or entrance areas. Select a light colour of 3000K, 4000K, or optionally Tunable White, and a colour rendering of up to CRI \geq 98 (XPECTRUM).

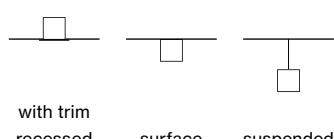
ES Las luminarias modulares FRAME 40 y MINO 40 satisfacen cualquier necesidad en el área del alumbrado general con sistemas de perfiles. Gracias a sus insertos Flex especiales, estas luminarias pueden acortarse en el propio lugar de instalación y adaptarse a cualquier circunstancia. Los conectores de esquinas hacen posible la obtención de sistemas de iluminación continuos. Estas luminarias se han dotado de un difusor opal para un alumbrado especialmente uniforme de las salas. También es posible elegir insertos de foco para una acentuación elegante en pasillos o zonas de entrada. En el área de la temperatura de color puede elegirse entre 3000K, 4000K y, opcionalmente, Tunable White. Por su parte, la reproducción cromática alcanza un índice IRC \geq 98 (XPECTRUM).

Type



40

Mountings



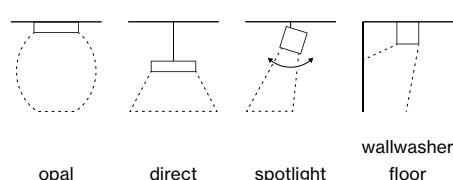
with trim
recessed surface suspended

Configurations

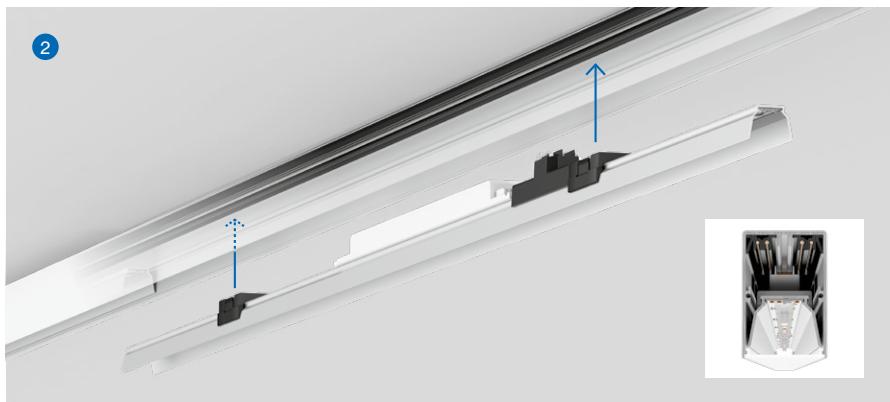
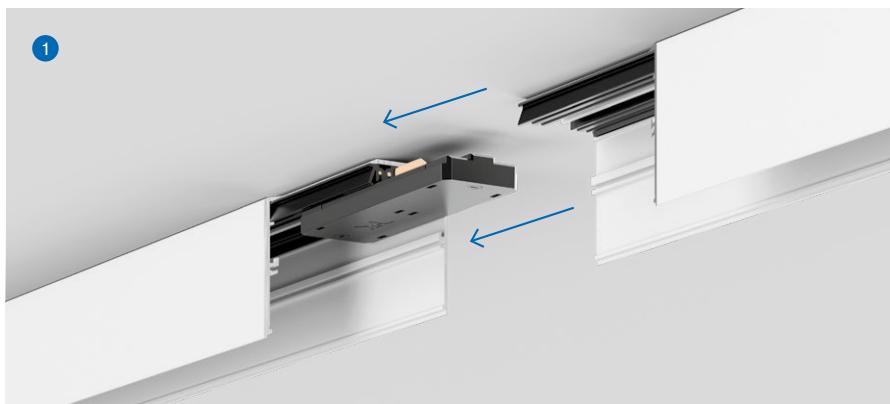


linear corner

Light distributions



opal direct spotlight wallwasher
floor



Easy Mounting

EN MINO 40 / FRAME 40 is based on a profile with an integrated track, which makes only one power feed point necessary.

(1) Two profiles are connected to each other with mechanical and electrical connectors.

(2) The patent-pending snap-in system allows the inset to be quickly and easily mounted in the profile. This simplifies the installation and maintenance of the system.

(3) The flexible Continuous Cover can be adjusted exactly to the length of the system and simply installed in the profile during mounting. This creates a continuous lighting system without disturbing joints.

ES MINO 40 y FRAME 40 constan de un perfil con carril eléctrico incorporado, por lo que solo se necesita disponer de una toma de alimentación.

(1) Un conector mecánico y eléctrico insertable permite conectar dos perfiles entre sí fácilmente.

(2) Con el mecanismo Snap-In (en espera de patente), el inserto puede introducirse en el perfil de una forma rápida y sencilla. Esto simplifica el montaje y el mantenimiento del sistema.

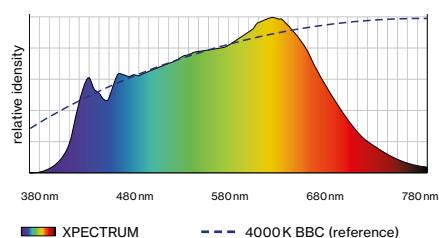
(3) El flexible difusor Continuous puede adaptarse con exactitud a la longitud del sistema e incorporarse en el perfil fácilmente durante el montaje. Esto permite obtener un sistema de iluminación continuo sin juntas molestas.

Full-spectrum LED

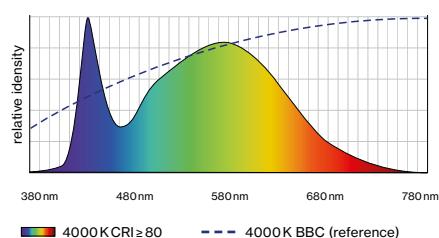
EN XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light component and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases 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



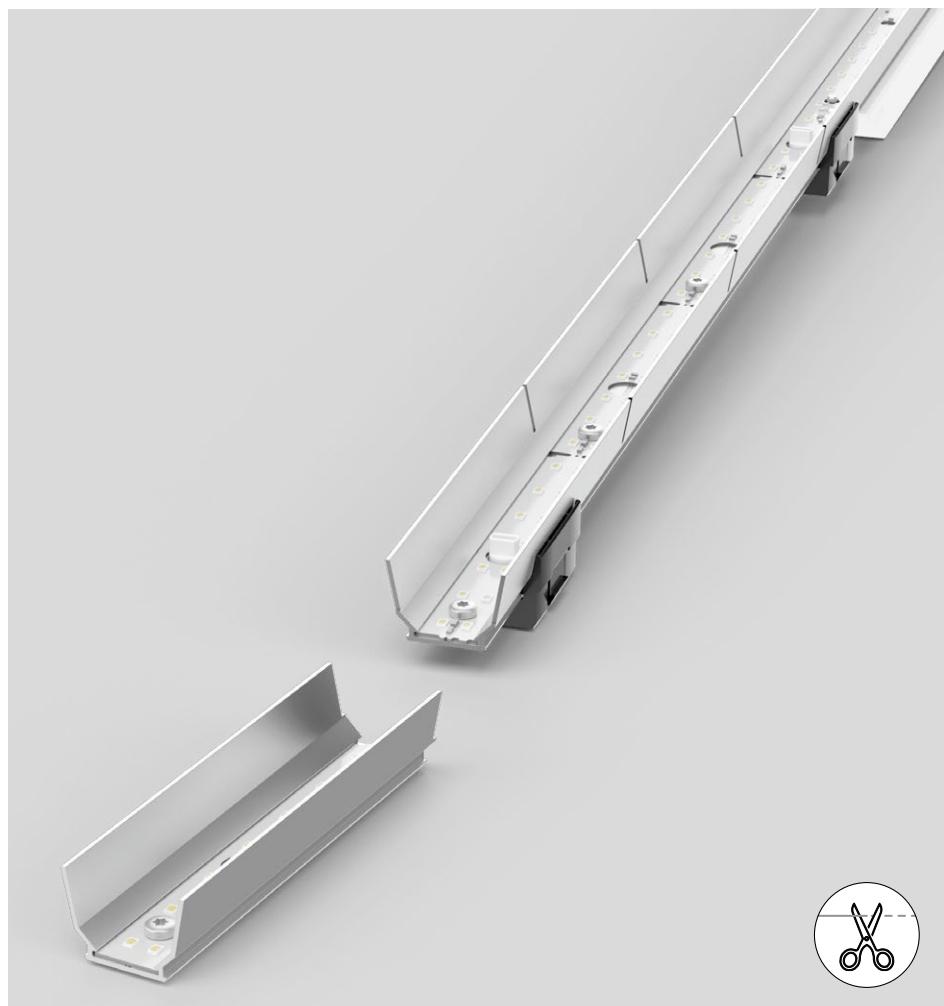
Commercially available LED 4000 K



Precise planning with flex insets

EN Your lighting system can be easily adapted to existing room dimensions. You can determine bespoke lengths for MINO 40 / FRAME 40. The special flex insets are precisely and flexibly adapted on-site during assembly. Boards are simply cut off at prefabricated break-points. These are positioned at 62.5 mm or 125 mm, depending on the length of the profile. 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 existentes. Para MINO 40 / FRAME 40 puede elegir las longitudes que prefiera. Los insertos especiales Flex se adaptan durante el montaje con exactitud y flexibilidad: las pletinas se separan fácilmente por áreas de rotura prefabricadas. Están se hallan a 62,5 mm o a 125 mm en función de la longitud del perfil. Esto le ofrece una total libertad y elimina las limitaciones en la planificación luminotécnica.



Spot Insets

EN Elegant room accentuation and reduced design: with the new Spot Insets, the system luminaires become convertible luminaires for stylish wall, floor, and ceiling accentuation. In addition, the Wallwasher Floor light inset is perfect for uniform illumination of a blackboard in the classroom, or a corridor. The tool-free installation of the insets is completed in one move, the spotlights can be simply unlocked and snapped into place.

ES Acentuación elegante de la sala con un diseño minimalista: los nuevos insertos de foco transforman los sistemas de perfiles en luminarias convertibles para una acentuación estilizada de paredes, suelos o techos. Además, el inserto bañador de pared-suelo es ideal para una iluminación uniforme de la pizarra en aulas de enseñanza o de pasillos. El montaje del inserto sin necesidad de herramienta es muy sencillo, y los focos pueden ponerse y quitarse con total facilidad.



FRAME 40 system

recessed with trim

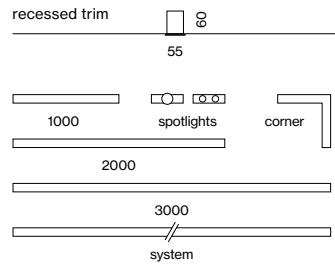
EN Luminaire housing made of extruded aluminium; recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; HPO (High Performance Opal) 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; energy-efficient LEDs with very good colour rendering; optionally spotlight modules can be installed

ES Cuerpo de lámpara de perfil extrusionado de aluminio; luminaria empotrable con marco; diseñado para la creación de sistemas continuos; 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; difusor HPO (High Performance Opal) en la longitud del inserto luminoso o difusor 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; LEDS de alta eficiencia que proporcionan una alta reproducción cromática; compatible con insertos de foco

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 2420 lm/m
up to 123 lm/W
L85 @ 50 000 h
DALI-2

Types



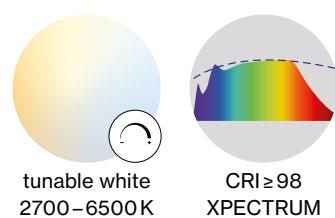
Colours



Light distributions



DiiA® standards
251, 252, 253 snap-in system
(patent pending)



Order options

LED TYPE	
mid lumen	1
high lumen	2

COLOUR TEMPERATURE	
3000K	0
4000K	1

CONTROL	
DALI-2	

MATERIAL COLOUR	
○ traffic white RAL 9016	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8

LENGTH	
1000 mm	1
2000 mm	2
3000 mm	3

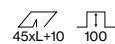
LIGHT OPTIC COVER	
opal high performance	

Options on request

COLOUR RENDERING INDEX	
CRI ≥ 98 XPECTRUM	

COLOUR TEMPERATURE	
tunable white 2700–6500K	

LIGHT OPTIC COVER	
micropolymer	



FRAME 40 trim

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	1000	0 4 2 - 7 0 0 2 0 1 □
channel	2000	0 4 2 - 7 0 0 4 0 1 □
channel	3000	0 4 2 - 7 0 0 6 0 1 □
channel corner 90°/opal cover	500 × 500	0 4 2 - 7 0 0 C 0 1 □ H

LIGHT OPTIC COVER 40

TYPE	L (mm)	ORDER CODE
linear cover	see left	0 0 6 - 4 2 L 0 0 1 0 H
continuous linear cover	6000	0 0 6 - 2 2 0 6 0 1 0 H
continuous linear cover	30000	0 0 6 - 2 2 3 0 0 1 0 H
blind cover	see left	0 0 6 - 4 2 L 0 0 1 □ B



LIGHT INSET 40

SYSTEM POWER (MID/HIGH LUMEN)	L (mm)	ORDER CODE
12.4/20.1W	1000	0 4 2 - 0 1 □ 2 □ 3 7
24.8/40W	2000	0 4 2 - 0 1 □ 4 □ 3 7
37/60W	3000	0 4 2 - 0 1 □ 6 □ 3 7
12.4/20.1W flex	500–1000	0 4 2 - 0 1 □ F □ 3 7
24.8/40W flex	1500–2000	0 4 2 - 0 1 □ G □ 3 7

LED TYPE / COVER	SYSTEM POWER	DELIVERED LM	EFFICACY
mid lumen / opal / 4000 K	12.4 W/m	1430 lm/m	116 lm/W
high lumen / opal / 4000 K	20.1 W/m	2240 lm/m	112 lm/W

Spotlight Insets

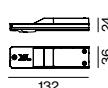
see page 130

Accessories



END CAPS

TYPE	ORDER CODE
end caps (pair)	0 4 2 - 7 0 9 0 0 1 □



POWER FEEDER UNIT

TYPE	ORDER CODE
power feeder unit	0 4 2 - 1 0 9 3 2 3 0



LINEAR CONNECTOR

TYPE	ORDER CODE
mechanical linear connector	0 4 2 - 7 0 9 1 1 1 0
mechanical & electrical linear connector	0 4 2 - 7 0 9 1 2 3 0
opal cover linear connector	0 4 2 - 1 0 9 1 9 1 0

MOUNTING BRACKET

TYPE	CEILING THICKNESS (mm)	ORDER CODE
mounting bracket (1 piece)	8-25	0 4 2 - 7 0 9 2 1 1 0
mounting bracket (25 pieces)	8-25	0 4 2 - 7 0 9 2 1 1 0 . 2 5

number of brackets required: length of your system in metres +1

LUMINOUS FLUX value calculated for
4000 K, CRI ≥ 90, colour white, cover opal
3000 K -5%

Psychiatrische Klinik Königshof Krefeld, DE –
by alsh sander.hofrichter architekten GmbH







MINO 40 system

ceiling / suspended

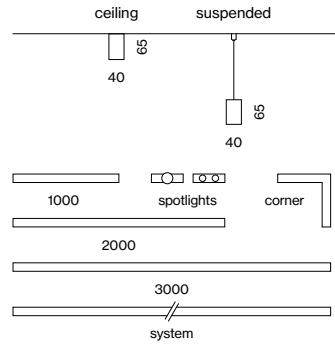
EN Luminaire housing from extruded aluminum profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; HPO (High Performance Opal) cover in the length of the light inset or 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; ceiling surface mounting or suspended mounting; height adjustment without tools; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile, improved thermal management; energy-eff. LEDs - very good colour rendering; optionally spotlight modules can be installed

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; perfil disponible para pre-montaje; resto de componentes luminosos montables sin herramienta; difusor HPO (High Performance Opal) en la longitud del inserto luminoso o difusor 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; montaje sobre techo o suspendido; altura regulable sin herramientas; incl. cable de alimentación transparente; inserto luminoso de perfil extruido con pintura ultrarreflectante, gestión del calor mejorada; LED energét. efic. - excelente reprod. crom.; compatible con insertos de foco

Quickinfo

3000 K, 4000 K
CRI ≥ 90, 3 SDCM
up to 2420 lm/m
up to 123 lm/W
L85 @ 50 000 h
DALI-2

Types



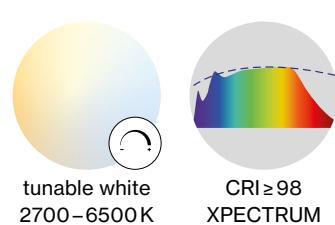
Colours



Light distributions



DiiA® standards
251, 252, 253 snap-in system
(patent pending)



Order options

LED TYPE	
mid lumen	1
high lumen	2

COLOUR TEMPERATURE	
3000K	0
4000K	1

CONTROL	
DALI-2	

MATERIAL COLOUR	
○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8
○○○ special colours	X

LENGTH	
1000 mm	1
2000 mm	2
3000 mm	3

LIGHT OPTIC COVER	
opal high performance	

ACCESSORY COLOUR	
○ pure white RAL 9010	7
● jet black RAL 9005	8

Options on request

COLOUR RENDERING INDEX	
CRI ≥ 98 XPECTRUM	

COLOUR TEMPERATURE	
tunable white 2700–6500K	

LIGHT OPTIC COVER	
microprismatic	

MINO 40 ceiling / suspended

INSTALLATION CHANNEL

TYPE	L (mm)	ORDER CODE
channel	1000	0 4 2 - 1 0 0 2 0 1 □
channel	2000	0 4 2 - 1 0 0 4 0 1 □
channel	3000	0 4 2 - 1 0 0 6 0 1 □
channel corner 90°/opal cover	500 × 500	0 4 2 - 1 0 0 C 0 1 □ H

LIGHT OPTIC COVER 40

TYPE	L (mm)	ORDER CODE
linear cover	see left	0 0 6 - 4 2 L 0 0 1 0 H
continuous linear cover	6000	0 0 6 - 2 2 0 6 0 1 0 H
continuous linear cover	30000	0 0 6 - 2 2 3 0 0 1 0 H
blind cover	see left	0 0 6 - 4 2 L 0 0 1 □ B



LIGHT INSET 40

SYSTEM POWER (MID/HIGH LUMEN)	L (mm)	ORDER CODE
12.8/21W	1000	0 4 2 - 0 1 □ 2 □ 3 7
25.6/42W	2000	0 4 2 - 0 1 □ 4 □ 3 7
38/63W	3000	0 4 2 - 0 1 □ 6 □ 3 7
12.8/21W flex	500–1000	0 4 2 - 0 1 □ F □ 3 7
25.6/42W flex	1500–2000	0 4 2 - 0 1 □ G □ 3 7

LED TYPE / COVER	SYSTEM POWER	DELIVERED LM	EFFICACY
mid lumen / opal / 4000 K	12.8 W/m	1560 lm/m	122 lm/W
high lumen / opal / 4000 K	21 W/m	2420 lm/m	115 lm/W

Spotlight Insets

see page 130

Accessories

END CAPS	TYPE	ORDER CODE
	end caps (pair)	0 4 2 - 1 0 9 0 0 1 □

POWER FEEDER UNIT	TYPE	ORDER CODE
	power feeder unit	0 4 2 - 1 0 9 3 2 3 0

LINEAR CONNECTOR	TYPE	ORDER CODE
	mechanical linear connector	0 4 2 - 7 0 9 1 1 1 0
	mechanical & electrical linear connector	0 4 2 - 7 0 9 1 2 3 0
	opal cover linear connector	0 4 2 - 1 0 9 1 9 1 0

CEILING FASTENER/CABLE SUSPENSION/CANOPY	TYPE	L (mm)	ORDER CODE
	ceiling fastener	10	0 5 0 - 2 0 4 1 1 1 □
	cable suspension	1500	0 0 5 - 2 1 5 2 1 1 0
	canopy		0 0 5 - 2 3 1 1 2 1 □
	feeder cable (transparent)		0 0 5 - 2 4 1 2 4 1 0

for electrical system configuration see luminaire data sheet at xal.com

LUMINOUS FLUX value calculated for
4000 K, CRI ≥ 90, colour white, cover opal
3000 K -5%



SPOTLIGHT insets

profiles 40

EN Cylindrical spotlight made of aluminium; powder coated; spotlight can be installed without tools in MINO 40 system or FRAME 40 system; choice of single lamp or double lamps; spotlight head rotatable (WALLWASHER / FLOOR) or rotatable and tiltable (SPOTLIGHT); converter in the adapter; with optional high quality lens system with precise radiation characteristic; or high quality, aluminium, vapour deposition coated reflector with faceted design; precise radiation characteristics with different beam angles; optional asym. light distribution; good glare reduction due to recessed light point plane; optical attachments as accessories; COB (Chip on Board) technology or high power LEDs - maximum efficiency; no multiple shadows; energy-eff. LEDs - very good colour rendering

ES Proyector cilíndrico de aluminio; recubierto de polvo; foco puede montarse en el sistema MINO 40 o en el sistema FRAME 40 sin herramientas; con una o dos luces; cabezal de foco giratorio (WALLWASHER / FLOOR) o giratorio e inclinable (SPOTLIGHT); driver en el adaptador; opcionalmente con sistema óptico de lentes de alta calidad con precisa característica de emisión; o reflector de alta calidad vaporizado de aluminio con revestimiento de facetas esféricas; característica de emisión precisa con diferentes ángulos de emisión; opcional distribución asimétrica; buen control del deslumbramiento mediante plano de punto de luz retranqueado; los accesorios ópticos como accesorios; tecnología COB (Chip on Board) o LEDS de alta potencia - máxima eficiencia; no sombras múltiples; LED energét. efic. - excelente reproducción cromática.

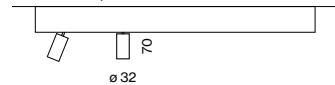
Quickinfo

3000 K, 4000 K
CRI ≥ 90, 2 SDCM
spotlight 32 up to 79 lm/W
spotlight 45 up to 85 lm/W
L80 @ 50 000 h
DALI-2

Types

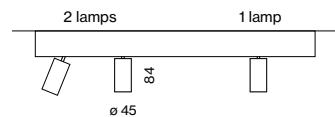
SPOTLIGHT 32

2 lamps



SPOTLIGHT 45

2 lamps



SPOTLIGHT 45 wallwasher floor

2 lamps



Colours



Light distributions



DiiA® standards
251, 252, 253



snap-in system
(patent pending)



wallwasher floor
360° rotatable



wallwasher
floor

Order options

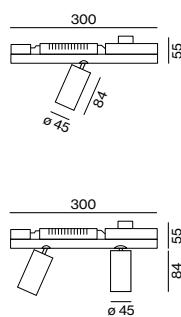
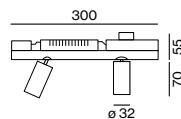
COLOUR TEMPERATURE	
3000K	0
4000K	1

CONTROL	
DALI-2	

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

BEAM ANGLE	
SPOTLIGHT 32	
spot 18°	S
medium 23°	M
flood 37°	F

BEAM ANGLE	
SPOTLIGHT 45	
spot 14°	S
medium 24°	M
flood 39°	F



SPOTLIGHT 32



2 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
20.6 W	2×810lm	0 4 2 - 0 6 1 0 :: 3 □▲ 0 0 7 - 1 9 6 5 1 6 8

SPOTLIGHT 45



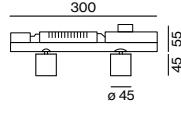
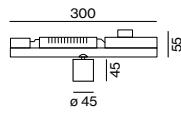
1 LAMP

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
15W	spot 1060lm	0 4 2 - 0 5 2 0 :: 3 □ S
15.9W	medium, flood 1340lm	0 4 2 - 0 5 2 0 :: 3 □▲ 0 0 7 - 1 9 6 5 1 8 8

2 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
30W	spot 2×1060lm	0 4 2 - 0 6 2 0 :: 3 □ S
32W	medium, flood 2×1340lm	0 4 2 - 0 6 2 0 :: 3 □▲ 0 0 7 - 1 9 6 5 1 8 8

SPOTLIGHT 45 wallwasher / floor



1 LAMP

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
9W	659lm	0 4 2 - 0 5 2 0 :: 3 □ W

2 LAMPS

SYSTEM POWER	LUMINOUS FLUX	ORDER CODE
15.9W	2×659lm	0 4 2 - 0 6 2 0 :: 3 □ W

LUMINOUS FLUX value calculated for
4000K, CRI≥90, colour white, medium
3000K -5%

Corridor
Visualisation





Get in contact

EN We develop and perfect projects in dialogue with the architects and planners to make them unique. We see ourselves as your partner. From lighting design, the right product selection and control system to commissioning and maintenance, we are at your side throughout your project. Let's talk about your project: **office@xal.com**

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