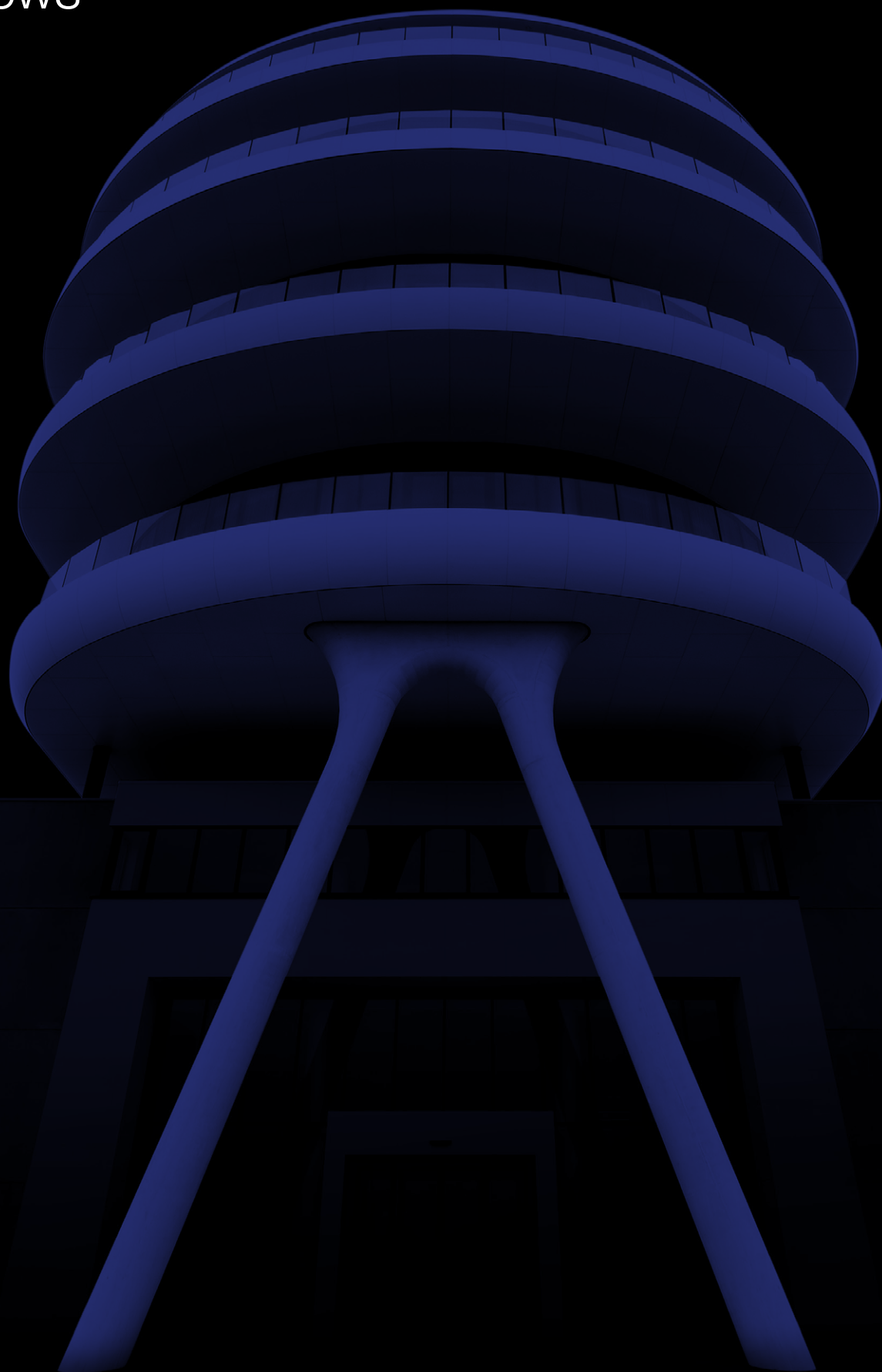


XAL 23

EN

IT

News

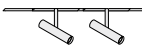
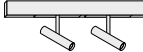
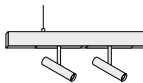
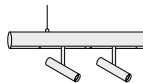
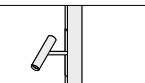


# Contents

## MOVE IT 10

installation track

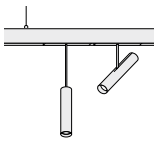
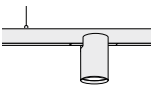
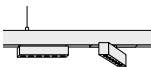
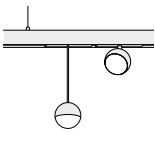
4

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |  |
| recessed trimless                                                                 | surface square                                                                    | suspended square                                                                  | suspended round                                                                   | pole square/round                                                                  |
| 12                                                                                | 12                                                                                | 14                                                                                | 14                                                                                | 16                                                                                 |

## linear insets

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |
| SPOT LINE direct                                                                  | OPAL direct                                                                       | DARKLIGHT direct                                                                  | indirect                                                                          |
| 20                                                                                | 20                                                                                | 20                                                                                | 20                                                                                |

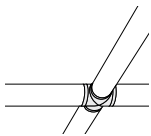
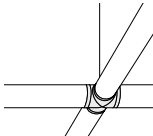
## decorative insets

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |
| TILA                                                                              | TARO                                                                              | GIRA                                                                              | NOBA                                                                              |
| 24                                                                                | 32                                                                                | 36                                                                                | 40                                                                                |

## TUBO 60

surface

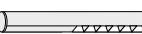
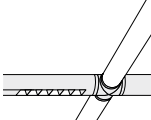
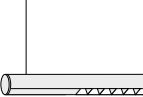
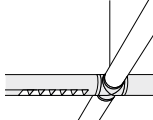
44

|                                                                                     |                                                                                    |           |                                                                                    |                                                                                     |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  | suspended |  |  |
| system                                                                              | CONEX system                                                                       |           | system                                                                             | CONEX system                                                                        |
| 48                                                                                  | 48                                                                                 |           | 48                                                                                 | 48                                                                                  |

## SETA

ceiling

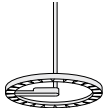
44

|                                                                                     |                                                                                     |           |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  | suspended |  |  |
| system                                                                              | CONEX system                                                                        |           | system                                                                              | CONEX system                                                                         |
| 48                                                                                  | 48                                                                                  |           | 48                                                                                  | 48                                                                                   |

## MITA

ceiling

54

|                                                                                     |           |                                                                                     |
|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
|  | suspended |  |
| circle                                                                              |           | suspended                                                                           |
| 58                                                                                  |           | 64                                                                                  |

## SPIO

recessed

68

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| 20 downlight                                                                        | 20 wallwasher                                                                       | 60 downlight                                                                        | 60 adjustable                                                                       |
| 72                                                                                  | 72                                                                                  | 76                                                                                  | 76                                                                                  |

## SQUADRO

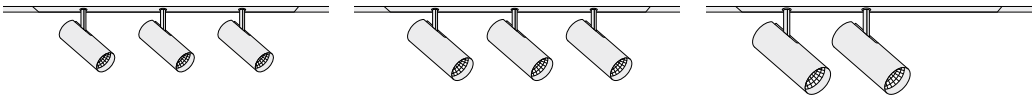
recessed

80

|                                                                                     |       |                                                                                     |
|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
|  | track |  |
| wallwasher                                                                          |       | wallwasher                                                                          |
| 84                                                                                  |       | 88                                                                                  |



**BO**  
intrack

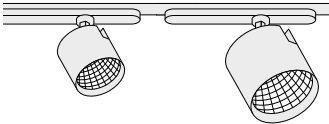


32  
2/3 lamps  
**96**

45  
2/3 lamps  
**96**

55  
1/2 lamps  
**96**

**VARO**  
track



102  
80 S  
**104**

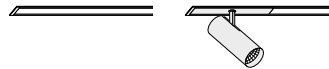
110 S  
**108**

**MILA**  
ceiling



112  
system  
**116**

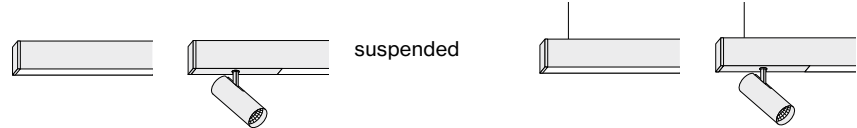
**FRAME 40**  
recessed  
trim



120  
system  
**124**

system  
**130**

**MINO 40**  
ceiling



120  
system  
**128**

system  
**130**

suspended

40 system  
**128**

40 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 minimalistic. 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.

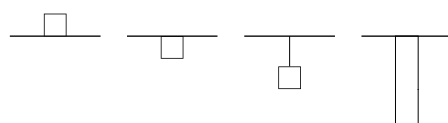
**IT** Un binario elettrificato ultrasottile: è questo MOVE IT 10. Si tratta di un binario dimmerabile a bassa tensione, previsto in variante da incasso, a plafone, a sospensione o su palo. Convince soprattutto per la sua sezione davvero minima: sia in forma rotonda che angolare, la larghezza netta misura solo 10 mm. Il design minimalista è ripreso anche negli adattatori, che scompaiono completamente nei binari. I colori disponibili sono il nero, bianco e cromo (per la versione rotonda). I binari si collegano con elementi Corner o Curve in modo da formare angoli squadrati o curve morbide. MOVE IT 10 si può ampliare con vari inserti lineari o di design, per la massima libertà di progettazione degli interni.

## Types



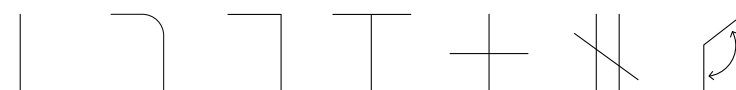
square      round

## Mountings



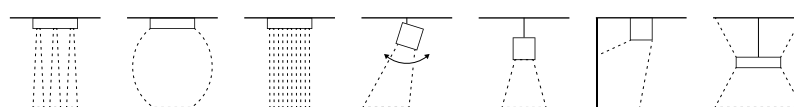
recessed      surface      suspended      pole

## 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

<sup>EN</sup> 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.

<sup>IT</sup> A seconda dell'aspetto e del tipo di montaggio preferito, il sistema di binari a 48 V è disponibile in variante da incasso, a plafone, sospensione o palo.



## Create individual arrangements

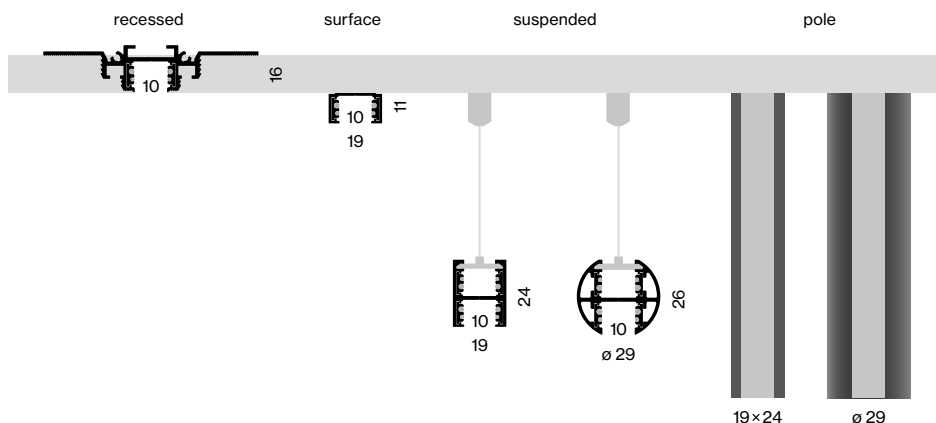
<sup>EN</sup> Let your creativity run wild and arrange MOVE IT 10 at will. Special Curve and Corner elements enable the straight tracks to be connected to form harmonious curves or precise corners. Since all elements fit together, you can configure your ideal bespoke system.

<sup>IT</sup> Date libero sfogo alla creatività componendo MOVE IT 10 secondo le vostre idee. Gli elementi speciali Curve e Corner consentono di unire i binari formando curve armoniose o angoli precisi. Dato che tutti gli elementi sono compatibili, si può configurare il sistema individualmente in base alle preferenze e allo spazio disponibile.

## 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.

**IT** Di forma rotonda o angolare, il binario offre possibilità applicative flessibili. Il diametro misura fino a 29 mm e assicura quindi un'ottica ridotta ed elegante. Molti inserti sono costruiti con un adattatore a filo, in modo che il soffitto mantenga un aspetto d'insieme unitario e riposante.



## 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.

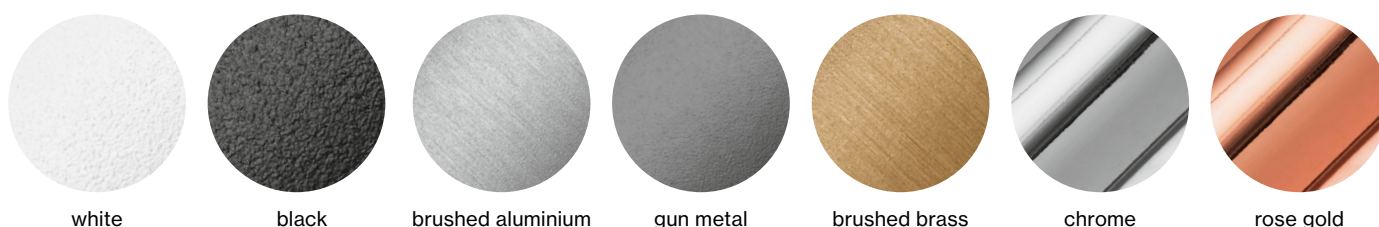
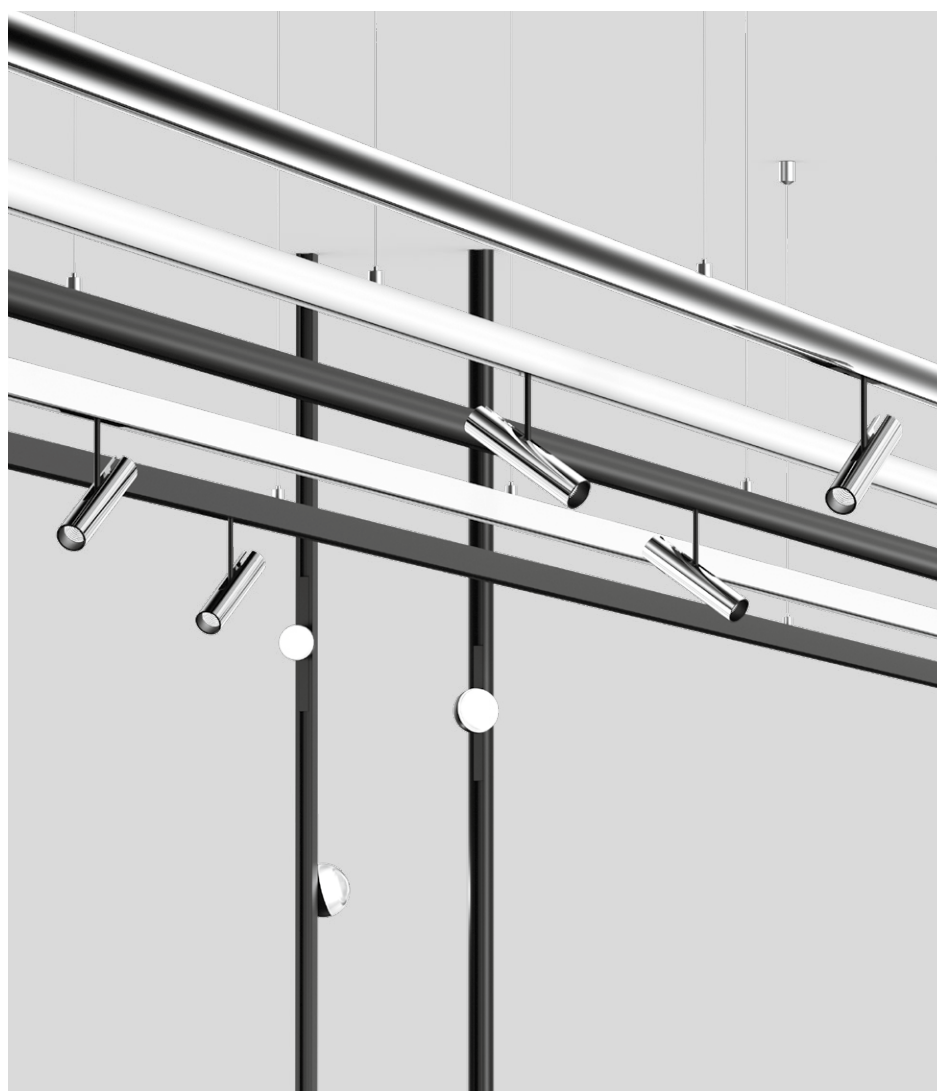
**IT** Sobria eleganza: i binari sono disponibili nei colori bianco e nero. Il binario rotondo è proposto anche in cromo. Inoltre con alcuni inserti si possono scegliere colori trend come cromo, oro rosé, gun metal, alluminio spazzolato e ottone spazzolato.

### Installation tracks

|                         |       |
|-------------------------|-------|
| <b>recessed</b> square  | ●     |
| <b>surface</b> square   | ○ ●   |
| <b>suspended</b> square | ○ ●   |
| <b>suspended</b> round  | ○ ● ● |
| <b>pole</b> square      | ○ ●   |
| <b>pole</b> round       | ○ ● ● |

### Decorative insets

|             |                 |
|-------------|-----------------|
| <b>GIRA</b> | ○ ●             |
| <b>NOBA</b> | ○ ● ● ● ● ● ● ● |
| <b>TARO</b> | ○ ● ● ● ● ● ● ● |
| <b>TILA</b> | ○ ● ● ● ● ● ● ● |



white

black

brushed aluminium

gun metal

brushed brass

chrome

rose gold

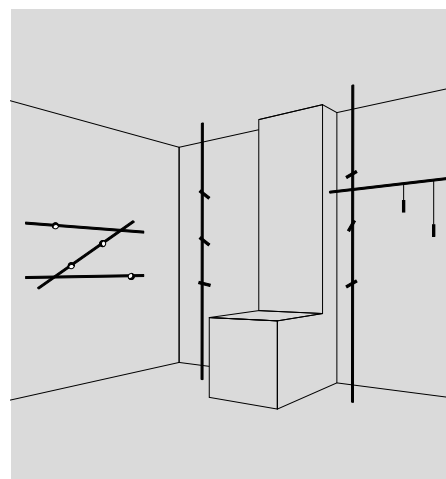
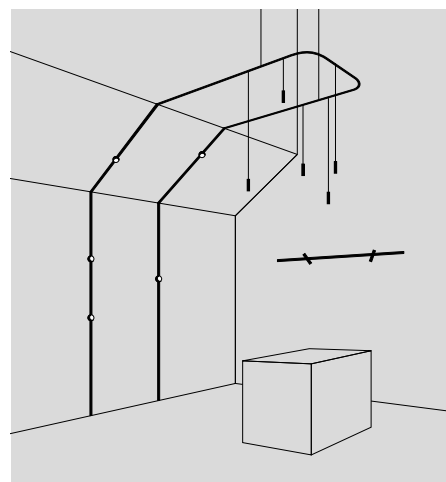
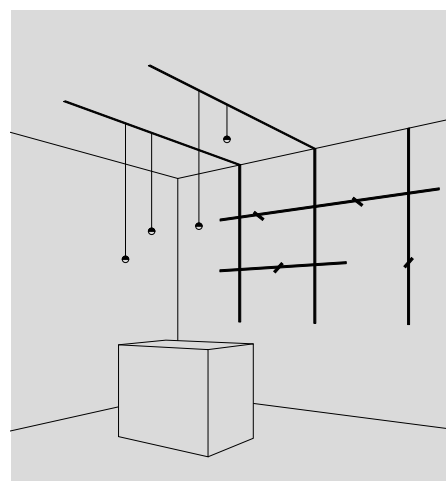




## Mounting variety

**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.

**IT** Che si tratti di angoli precisi o di curve armoniose, il sistema MOVE IT 10 non pone limiti alla creatività. Eleganti inserti per diverse applicazioni rendono il sistema ancora più flessibile.







## 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.

**IT** La flessibilità aumenta ulteriormente con l'ampia scelta di giunti: a L, a T, a X. A questi si aggiunge il Ceiling to Wall Connector che permette di realizzare pendenze dal tetto con angoli diversi.

### 1 Linear Connector



### 2 L-Connector



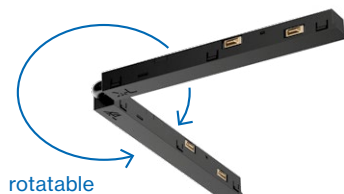
### 3 T-Connector



### 4 X-Connector



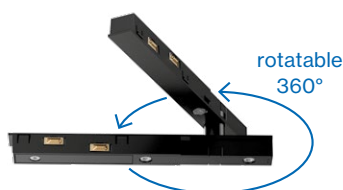
### 5 Flex Connector



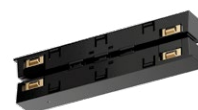
### 6 Ceiling to Wall Connector



### 7 Level Connector



### 8 Pass Through Connector

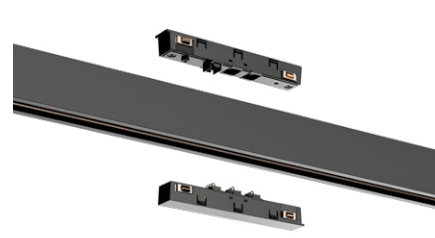
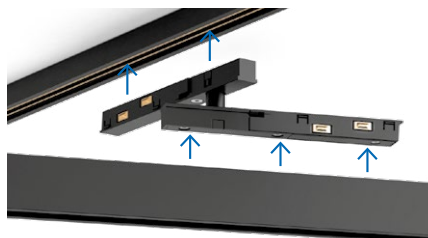


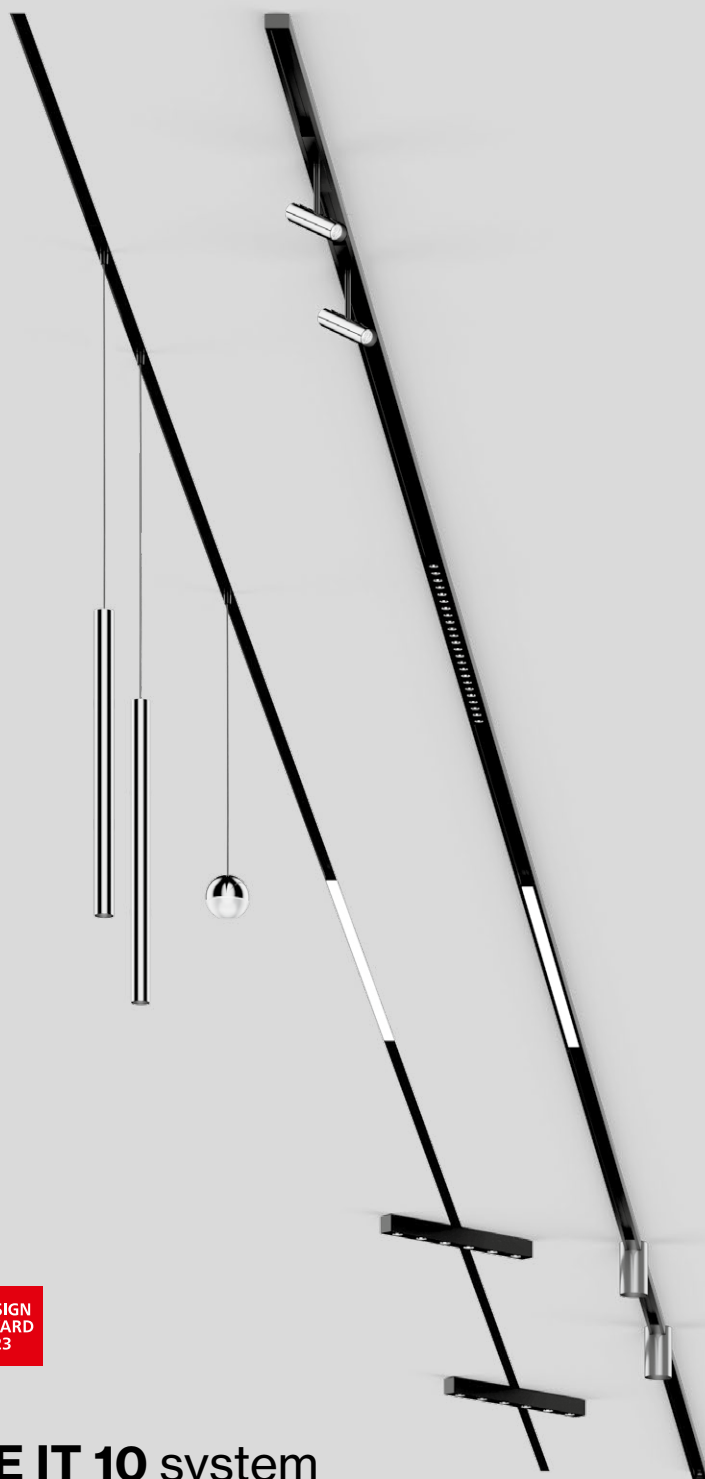
**EN** With the Level Connector, two tracks that are placed on top of each other can now be mechanically and electrically connected to each other. This creates new application possibilities.

**IT** Con il Level Connector si possono sovrapporre due binari collegandoli insieme meccanicamente ed elettricamente. Ne derivano nuove e interessanti applicazioni.

**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.

**IT** Un'altra possibilità è il Pass Through Connector, in attesa di brevetto: in questo caso gli inserti di luce diretta e indiretta nel binario ad H si collegano elettricamente tra loro.





## MOVE IT 10 system

recessed trimless/surface

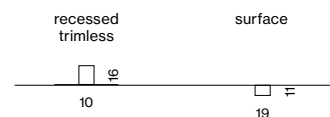
**EN** Thin extruded aluminium profile with 16 mm (trimless) or 11 mm (surface) height and 10 mm width groove; optionally for trimless installation in plasterboard ceilings (wall or ceiling mounting) with 12.5 mm ceiling thickness; MOVE IT 10 trimless profile with processing protection against penetration 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

**IT** Profilo sottile in alluminio estruso con altezza di 16 mm (trimless) o di 11 mm (surface) e giunto largo 10 mm; a scelta per incasso a scomparsa in controsoffitti in cartongesso (montaggio a parete o a soffitto) con spessore soffitto di 12,5 mm; profilo MOVE IT 10 trimless con protezione di lavorazione contro la penetrazione dello stucco; o per montaggio a parete/soffitto; per sistemi di file continue; sistema con struttura flessibile grazie all'impiego di connettori a L, a T o a X oppure a connettori FLEX o LEVEL; con binario elettrico integrato per la riduzione della tensione di alimentazione e segnale DALI-2; superficie anodizzata o verniciatura a polvere; montaggio degli inserti flessibile e senza attrezzi grazie alla chiusura a clip

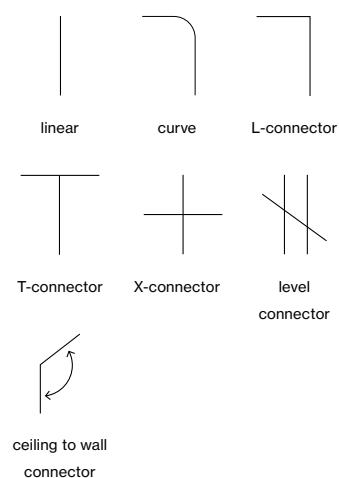
### Quickinfo

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

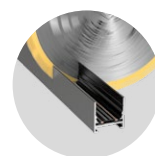
### Types



### Configurations



### Colours



custom cut on building site





## MOVE IT 10 system

suspended

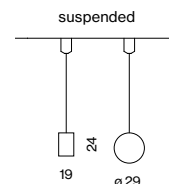
**EN** Thin extruded aluminium profile with 10 mm width groove; choice of angular (38 mm height) or tubular (28 mm height) design; for suspended mounting (cable suspension, height adjustment without tools, incl. black feed); with integrated power track profile on both sides for take off of supply voltage 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

**IT** Profilo sottile in alluminio estruso con giunto largo 10 mm; possibilità di scelta tra design squadrato (altezza 38 mm) o tubolare (altezza 28 mm); per montaggio a sospensione (cavo di sospensione, regolazione in altezza senza attrezzi, cavo di alimentazione nero incluso); con binario elettrificato integrato su entrambi i lati per la presa della tensione di alimentazione e il segnale DALI-2; alimentazione e segnale DALI-2 per entrambi i binari elettrificati con un unico ingresso attraverso il connettore pass through; per sistemi di file continue; sistema con struttura flessibile grazie all'impiego di connettori a L, a T o a X oppure a connettori LEVEL; superficie anodizzata o verniciatura a polvere; montaggio degli inserti flessibile e senza attrezzi grazie alla chiusura a clip

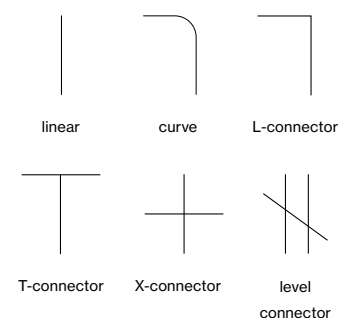
### Quickinfo

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

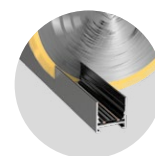
### Types



### Configurations



### Colours



custom cut on building site

## Order options

### CONTROL

DALI-2

### MATERIAL COLOUR

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

### MATERIAL COLOUR CABLE SUSPENSION

|                      |   |
|----------------------|---|
| ● chrome             | 4 |
| ● jet black RAL 9005 | 8 |

## Options on request

### MATERIAL COLOUR MOVE IT 10 ROUND

● chrome

## MOVE IT 10 square suspended



### INSTALLATION TRACK

#### L (mm)

|            |               |
|------------|---------------|
| 1100       | channel       |
| 2100       | channel       |
| 3100       | channel       |
| custom cut | channel       |
| R 300      | curve channel |
| R 500      | curve channel |

#### ORDER CODE

|            |   |
|------------|---|
| 030-131303 | ✓ |
| 030-131503 | ✓ |
| 030-131703 | ✓ |
| E83630     | ✓ |
| 030-133103 | ✓ |
| 030-133203 | ✓ |

### END CAPS / CONNECTORS

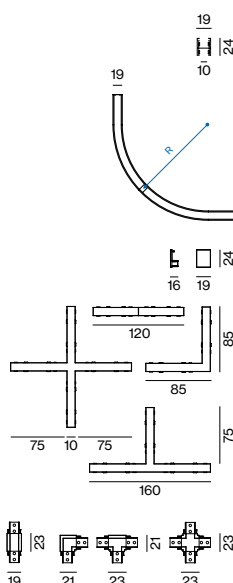
#### TYPE

|                             |
|-----------------------------|
| end caps (pair)             |
| linear connector electrical |
| L connector electrical      |
| T connector electrical      |
| X connector electrical      |
| linear connector mechanical |
| L connector mechanical      |
| T connector mechanical      |
| X connector mechanical      |

#### ORDER CODE

|            |   |
|------------|---|
| 030-132001 | ✓ |
| 030-210113 | ✓ |
| 030-211113 | ✓ |
| 030-212113 | ✓ |
| 030-213113 | ✓ |
| 030-133401 | ✓ |
| 030-133501 | ✓ |
| 030-133601 | ✓ |
| 030-133701 | ✓ |

more electrical and mechanical connectors see page 19



## MOVE IT 10 round suspended



### INSTALLATION TRACK

#### L (mm)

|            |               |
|------------|---------------|
| 1100       | channel       |
| 2100       | channel       |
| 3100       | channel       |
| custom cut | channel       |
| R 300      | curve channel |
| R 500      | curve channel |

#### ORDER CODE

|            |   |
|------------|---|
| 030-141303 | ✓ |
| 030-141503 | ✓ |
| 030-141703 | ✓ |
| E83640     | ✓ |
| 030-143103 | ✓ |
| 030-143203 | ✓ |

### END CAPS / CONNECTORS

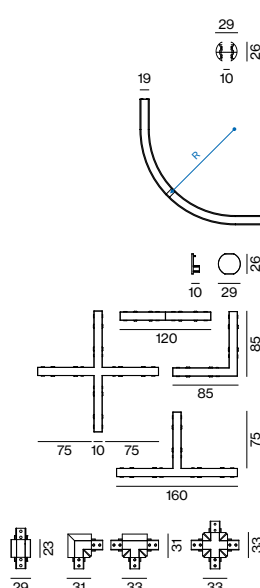
#### TYPE

|                             |
|-----------------------------|
| end caps (pair)             |
| linear connector electrical |
| L connector electrical      |
| T connector electrical      |
| X connector electrical      |
| linear connector mechanical |
| L connector mechanical      |
| T connector mechanical      |
| X connector mechanical      |

#### ORDER CODE

|            |   |
|------------|---|
| 030-142001 | ✓ |
| 030-210113 | ✓ |
| 030-211113 | ✓ |
| 030-212113 | ✓ |
| 030-213113 | ✓ |
| 030-143401 | ✓ |
| 030-143501 | ✓ |
| 030-143601 | ✓ |
| 030-143701 | ✓ |

more electrical and mechanical connectors see page 19



## Accessories

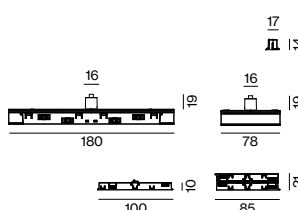
BLIND COVER see page 17

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

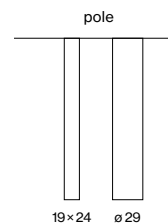




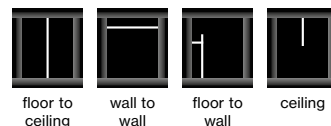
## Quickinfo

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

## Types



## Mounting types



## Colours

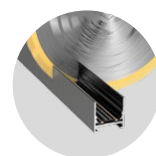


# MOVE IT 10 system

## 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

**IT** Profilo sottile in alluminio estruso con giunto largo 10 mm; possibilità di scelta tra design squadrato (altezza 38 mm) o tubolare (altezza 28 mm); per montaggio verticale e orizzontale; facile installazione del set di montaggio, alimentatore incluso; con binario elettrificato integrato su entrambi i lati per la presa della tensione di alimentazione e il segnale DALI-2; alimentazione e segnale DALI-2 per entrambi i binari elettrificati con un unico ingresso attraverso il connettore pass through; per sistemi di file continue; sistema con struttura flessibile grazie all'impiego di connettori a L, a T o a X oppure a connettori LEVEL; superficie anodizzata o verniciatura a polvere; montaggio degli inserti flessibile e senza attrezzi grazie alla chiusura a clip



custom cut on building site



## Order options

| COLOUR TEMPERATURE |   |
|--------------------|---|
| 2700 K             | 4 |
| 3000 K             | 5 |
| 4000 K             | 6 |

## CONTROL

DALI-2

## MATERIAL COLOUR

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

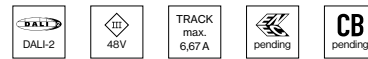
## Options on request

## MATERIAL COLOUR

## MOVE IT 10 ROUND

● chrome

## MOVE IT 10 square pole



19  
10  
24

## INSTALLATION TRACK

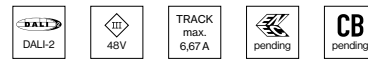
| L (mm)     |         | ORDER CODE |
|------------|---------|------------|
| 1100       | channel | 030-131303 |
| 2100       | channel | 030-131503 |
| 3100       | channel | 030-131703 |
| custom cut | channel | E83630     |

19 x 24  
46

## MOUNTING SET

| TYPE                                                  | ORDER CODE |
|-------------------------------------------------------|------------|
| floor to ceiling set (pair)                           | 030-134101 |
| wall to wall set (pair)                               | 030-134101 |
| floor to wall set (wall bracket 400 mm incl. end cap) | 030-134201 |
| ceiling set (incl. end cap)                           | 030-134301 |

## MOVE IT 10 round pole



29  
10  
18

## INSTALLATION TRACK

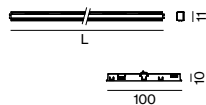
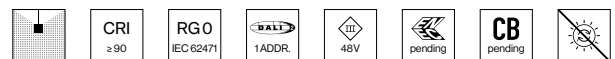
| L (mm)     |         | ORDER CODE |
|------------|---------|------------|
| 1100       | channel | 030-141303 |
| 2100       | channel | 030-141503 |
| 3100       | channel | 030-141703 |
| custom cut | channel | E83640     |

29  
10  
18

## MOUNTING SET

| TYPE                                                  | ORDER CODE |
|-------------------------------------------------------|------------|
| floor to ceiling set (pair)                           | 030-144101 |
| wall to wall set (pair)                               | 030-144101 |
| floor to wall set (wall bracket 400 mm incl. end cap) | 030-144201 |
| ceiling set (incl. end cap)                           | 030-144301 |

## LIGHT INSET 10



## INDIRECT incl. feeder

| INS. POWER | COLOUR TEMP. | LUM. FLUX | L (mm) | ORDER CODE   |
|------------|--------------|-----------|--------|--------------|
| 15 W       | 2700 K       | 1370 lm   | 1000   | 030-633038 B |
|            | 3000 K       | 1450 lm   |        |              |
|            | 4000 K       | 1530 lm   |        |              |
| 30 W       | 2700 K       | 2750 lm   | 2000   | 030-637038 B |
|            | 3000 K       | 2900 lm   |        |              |
|            | 4000 K       | 3050 lm   |        |              |

## Accessories

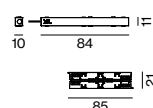
## BLIND COVER

| L (mm)     |             | ORDER CODE |
|------------|-------------|------------|
| 1100       | blind cover | 030-100301 |
| 2100       | blind cover | 030-100501 |
| 3100       | blind cover | 030-100701 |
| custom cut | blind cover | E83600     |

## ELECTRICAL ACCESSORIES

| TYPE                                        | ORDER CODE |
|---------------------------------------------|------------|
| internal power feeder (incl. cable 2000 mm) | 030-252503 |
| pass through connector electrical (pair)    | 030-217113 |

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

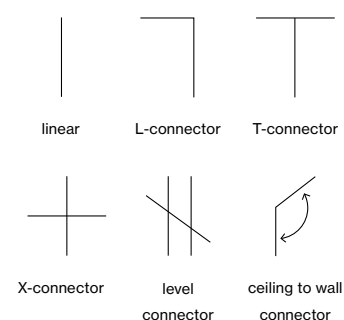




## Types

- 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



# 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

**IT** Connettori meccanici ed elettrici per il sistema MOVE IT 10; a L, a T o a X; oppure connettori FLEX, CEILING TO WALL o LEVEL, nonché connettori PASS THROUGH; per composizioni flessibili; diversi convertitori per l'intero sistema MOVE IT



## Order options

| CONNECTOR MECHANICAL | T |
|----------------------|---|
| recessed*            | 1 |
| surface              | 2 |
| suspended square     | 3 |
| suspended round      | 4 |

\*T- and X-connector on request

### CONTROL

DALI-2

| MATERIAL COLOUR           | ■ |
|---------------------------|---|
| ○ traffic white* RAL 9016 | 7 |
| ● 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 | 030-210113 <a href="#">■</a>                   |
| linear connector mechanical | 030-1 <a href="#">T</a> 3401 <a href="#">■</a> |

### L CONNECTOR

| TYPE                   | ORDER CODE                                     |
|------------------------|------------------------------------------------|
| L connector electrical | 030-211113 <a href="#">■</a>                   |
| L connector mechanical | 030-1 <a href="#">T</a> 3501 <a href="#">■</a> |

### T CONNECTOR

| TYPE                   | ORDER CODE                                     |
|------------------------|------------------------------------------------|
| T connector electrical | 030-212113 <a href="#">■</a>                   |
| T connector mechanical | 030-1 <a href="#">T</a> 3601 <a href="#">■</a> |

### X CONNECTOR

| TYPE                   | ORDER CODE                                     |
|------------------------|------------------------------------------------|
| X connector electrical | 030-213113 <a href="#">■</a>                   |
| X connector mechanical | 030-1 <a href="#">T</a> 3701 <a href="#">■</a> |

### FLEX CONNECTOR

| TYPE                      | ORDER CODE                   |
|---------------------------|------------------------------|
| flex connector electrical | 030-214113 <a href="#">■</a> |

### CEILING TO WALL CONNECTOR

| TYPE                                 | ORDER CODE                   |
|--------------------------------------|------------------------------|
| ceiling to wall connector electrical | 030-216113 <a href="#">■</a> |

### LEVEL CONNECTOR

| TYPE                       | ORDER CODE                   |
|----------------------------|------------------------------|
| level connector electrical | 030-215113 <a href="#">■</a> |

### PASS THROUGH CONNECTOR

| TYPE                                                         | ORDER CODE                   |
|--------------------------------------------------------------|------------------------------|
| pass through connector electrical (pair)                     | 030-217113 <a href="#">■</a> |
| electrical connection from direct to indirect and vice versa |                              |

### POWER FEEDER

| TYPE                                       | ORDER CODE                   |
|--------------------------------------------|------------------------------|
| power feeder (only for surface)            | 030-252303 <a href="#">■</a> |
| internal power feeder (incl. cable 2000mm) | 030-252503 <a href="#">■</a> |

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

| TYPE                                      | EFFICIENCY | MOUNTING | L-W-H (mm) | ORDER CODE |
|-------------------------------------------|------------|----------|------------|------------|
| 60 W <a href="#">■</a> PC II $\eta$ 88 %  |            | external | 163-43-32  | 002-62133  |
| 150 W <a href="#">■</a> PC II $\eta$ 92 % |            | external | 350-30-18  | 002-62135  |
| 250 W <a href="#">■</a> PC II $\eta$ 93 % |            | external | 400-40-22  | 002-62139  |

ENEC approved, incl. feeder cable 2000 mm

### POWER SUPPLY BASIC 48 V

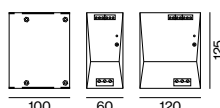
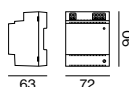
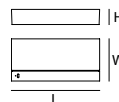
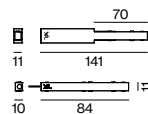
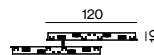
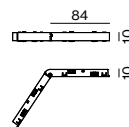
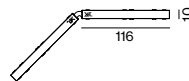
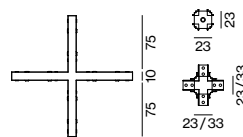
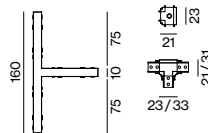
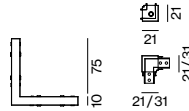
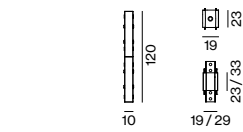
220-240 V | 50-60 Hz | [■](#) PC II | Lifetime @ 120 W, 45° ambient temp. cascable max. 3 devices

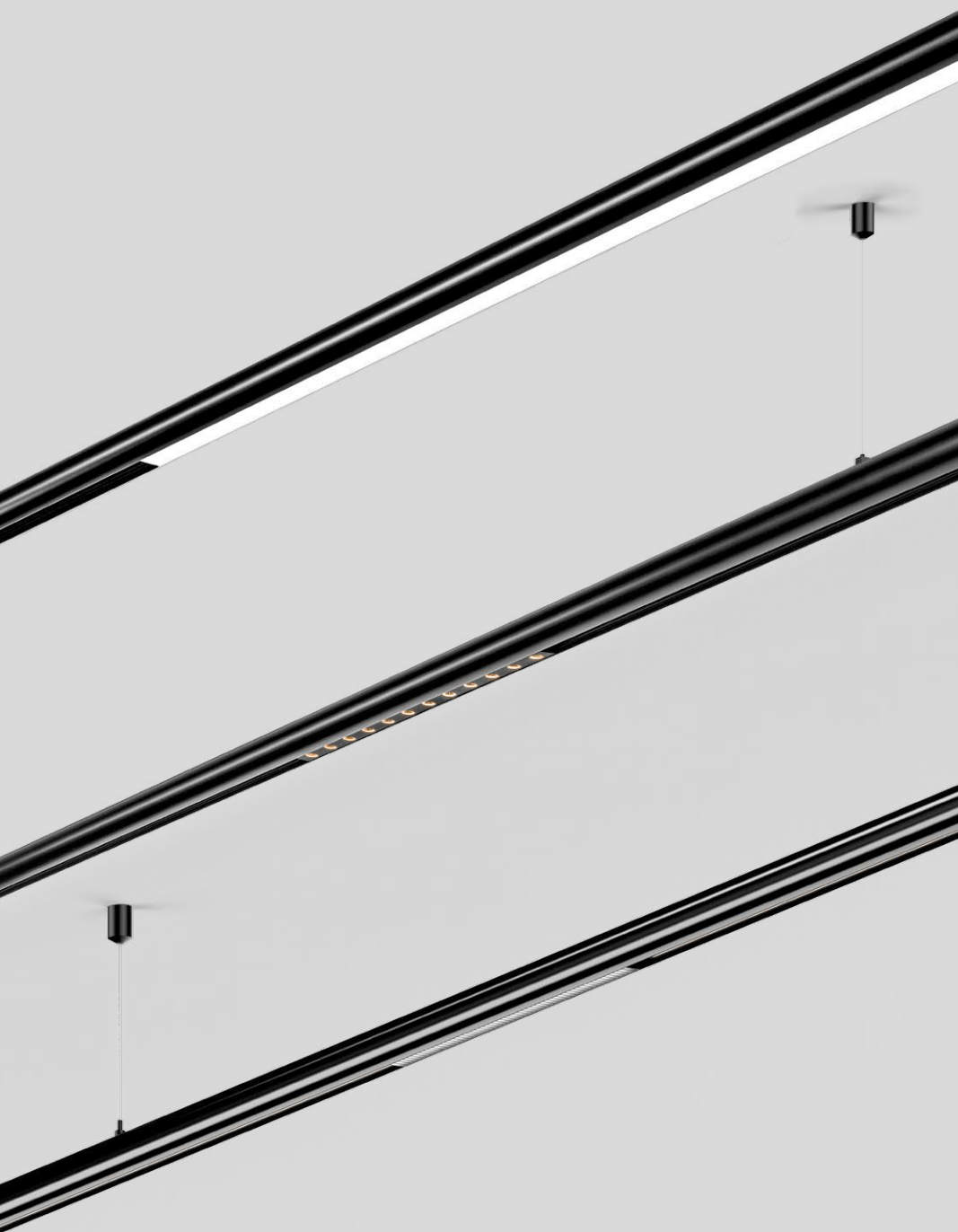
| TYPE                              | EFFICIENCY / LIFETIME | W-H-D (mm) | ORDER CODE  |
|-----------------------------------|-----------------------|------------|-------------|
| 160 W $\eta$ 94.5 % / > 100.000 h |                       | 72-90-63   | 005-6520210 |

### DIN RAIL POWER SUPPLY PRO 48 V

220-240 V | 50-60 Hz | [■](#) PC I | MTBF @ 55° ambient temperature cascable max. 5 devices (240 W) or 3 devices (480 W)

| TYPE                            | EFFICIENCY / MTBF | W-H-D (mm)  | ORDER CODE  |
|---------------------------------|-------------------|-------------|-------------|
| 240 W $\eta$ 92 % / > 400.000 h |                   | 60-125-100  | 005-6220110 |
| 480 W $\eta$ 93 % / > 350.000 h |                   | 120-125-100 | 005-6220210 |



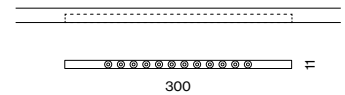


## Quickinfo

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

## Types

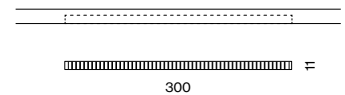
spot line



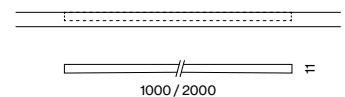
opal



darklight



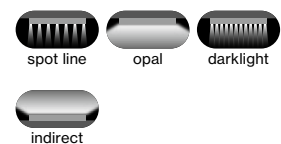
indirect



## Colour

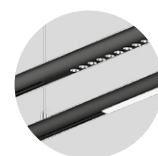


## Light distributions



# SPOT LINE / OPAL / DARKLIGHT

linear inset 10



flush  
mounted

## Order options

### COLOUR TEMPERATURE

|        |   |
|--------|---|
| 2700 K | 4 |
| 3000 K | 5 |
| 4000 K | 6 |

### CONTROL

DALI-2

### MATERIAL COLOUR

● jet black RAL 9005

### LIGHT OPTIC

|                       |
|-----------------------|
| spot line             |
| opal high performance |
| darklight             |
| indirect              |

## LIGHT INSET 10



UGR  
≤ 16

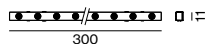
CRI  
≥ 90

BALIT  
1 ADDR.

48V

pending

CB  
pending



### SPOT LINE

| INS. POWER | COLOUR TEMP. | LUM. FLUX | L (mm) | ORDER CODE     |
|------------|--------------|-----------|--------|----------------|
| 8.5 W      | 2700 K       | 420 lm    | 300    | 030-6110::38 M |
|            | 3000 K       | 460 lm    |        |                |
|            | 4000 K       | 480 lm    |        |                |



CRI  
≥ 90

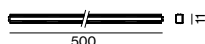
RG0  
IEC 62471

BALIT  
1 ADDR.

48V

pending

CB  
pending



### OPAL HIGH PERFORMANCE

| INS. POWER | COLOUR TEMP. | LUM. FLUX | L (mm) | ORDER CODE     |
|------------|--------------|-----------|--------|----------------|
| 5 W        | 2700 K       | 520 lm    | 500    | 030-6120::38 H |
|            | 3000 K       | 520 lm    |        |                |
|            | 4000 K       | 525 lm    |        |                |



UGR  
≤ 16

CRI  
≥ 90

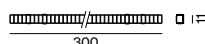
RG0  
IEC 62471

BALIT  
1 ADDR.

48V

pending

CB  
pending



### DARKLIGHT

| INS. POWER | COLOUR TEMP. | LUM. FLUX | L (mm) | ORDER CODE     |
|------------|--------------|-----------|--------|----------------|
| 5.7 W      | 2700 K       | 280 lm    | 300    | 030-6210::38 M |
|            | 3000 K       | 280 lm    |        |                |
|            | 4000 K       | 285 lm    |        |                |



CRI  
≥ 90

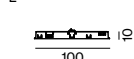
RG0  
IEC 62471

BALIT  
1 ADDR.

48V

pending

CB  
pending



### INDIRECT incl. feeder

| INS. POWER | COLOUR TEMP. | LUM. FLUX | L (mm) | ORDER CODE     |
|------------|--------------|-----------|--------|----------------|
| 15 W       | 2700 K       | 1370 lm   | 1000   | 030-6330::38 M |
|            | 3000 K       | 1450 lm   |        |                |
|            | 4000 K       | 1530 lm   |        |                |
| 30 W       | 2700 K       | 2750 lm   | 2000   | 030-6370::38 M |
|            | 3000 K       | 2900 lm   |        |                |
|            | 4000 K       | 3050 lm   |        |                |

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

**Private Residence**  
Visualisation









# TILA

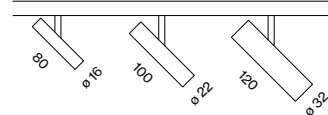
decorative inset 10

## Quickinfo

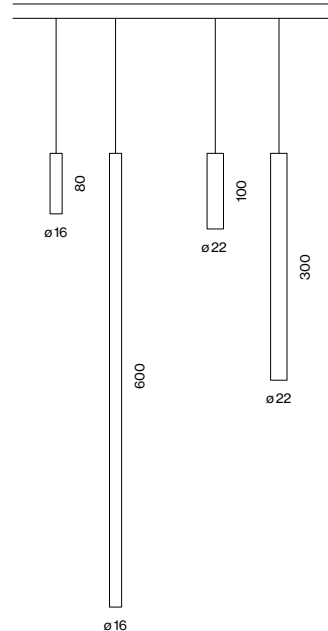
2700 K, 3000 K, 4000 K  
CRI ≥ 90  
up to 81lm/W  
DALI-2

## Types

adjustable rod



suspended



## Colours

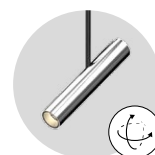


## Light distributions

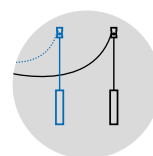
TILA 16



TILA 22/32



365° 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 | :: |
|--------------------|----|
| 2700 K             | 4  |
| 3000 K             | 5  |
| 4000 K             | 6  |

### CONTROL

|        |  |
|--------|--|
| DALI-2 |  |
|--------|--|

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

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

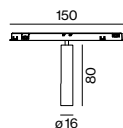
| BEAM ANGLE TILA 16 | ▲ |
|--------------------|---|
| medium 20°         | M |
| flood 40°          | F |

| 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

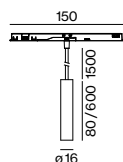


### ADJUSTABLE

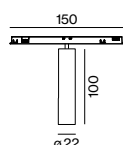
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE   |
|-------------|--------------|---------------|--------------|
| 5 W         | 2700 K       | 230 lm        | 030-6500::3▲ |
|             | 3000 K       | 240 lm        |              |
|             | 4000 K       | 250 lm        |              |

### SUSPENDED

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE    |
|-------------|--------------|---------------|---------------|
| 5 W         | 2700 K       | 230 lm        | 030-66 L0::3▲ |
|             | 3000 K       | 240 lm        |               |
|             | 4000 K       | 250 lm        |               |



## TILA 22

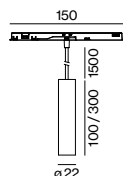


### ADJUSTABLE

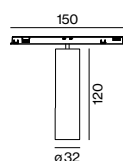
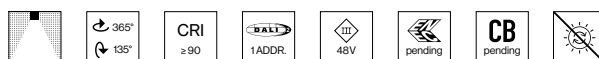
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE   |
|-------------|--------------|---------------|--------------|
| 10.5 W      | 2700 K       | 415 lm        | 030-6530::3▲ |
|             | 3000 K       | 440 lm        |              |
|             | 4000 K       | 460 lm        |              |

### SUSPENDED

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE    |
|-------------|--------------|---------------|---------------|
| 10.5 W      | 2700 K       | 415 lm        | 030-66 L0::3▲ |
|             | 3000 K       | 440 lm        |               |
|             | 4000 K       | 460 lm        |               |



## TILA 32



### ADJUSTABLE

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE   |
|-------------|--------------|---------------|--------------|
| 11 W        | 2700 K       | 720 lm        | 030-6560::3▲ |
|             | 3000 K       | 850 lm        |              |
|             | 4000 K       | 900 lm        |              |

## Mounting accessories

### HOOK ceiling mounted

| TYPE | Ø-H (mm) | ORDER CODE  |
|------|----------|-------------|
| hook | 16-30    | 030-100001■ |



## Optical accessories

### HONEYCOMB LOUVER

| TYPE    | Ø-H (mm) | ORDER CODE  |
|---------|----------|-------------|
| TILA 22 | 20-3     | 007-1965118 |
| TILA 32 | 30-3     | 007-1965168 |

**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







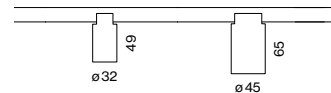


### Quickinfo

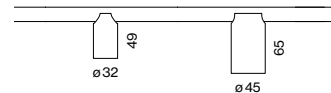
2700 K, 3000 K, 4000 K  
CRI ≥ 90  
up to 83 lm/W  
DALI-2

### Types

square track



round track



### Colours



### Light distributions

TARO 32



TARO 45

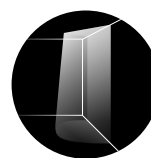


# TARO

decorative inset 10



wallwasher floor  
360° rotatable



wallwasher  
floor

## Order options

| COLOUR TEMPERATURE |   |
|--------------------|---|
| 2700 K             | 4 |
| 3000 K             | 5 |
| 4000 K             | 6 |

### CONTROL

|        |  |
|--------|--|
| DALI-2 |  |
|--------|--|

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

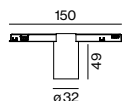
| BEAM ANGLE TARO 32 |   |
|--------------------|---|
| spot 18°           | S |
| medium 23°         | M |
| flood 37°          | F |

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

## Options on request

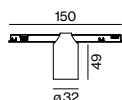
| MATERIAL COLOUR |  |
|-----------------|--|
| ● gun metal     |  |
| ● brushed brass |  |
| ● rose gold     |  |

## TARO 32



### DOWNLIGHT SQUARE TRACK

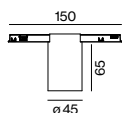
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 11W         | 2700 K       | 720lm         | 030-6700:3 |
|             | 3000 K       | 860lm         |            |
|             | 4000 K       | 900lm         |            |



### DOWNLIGHT ROUND TRACK

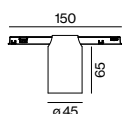
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 11W         | 2700 K       | 720lm         | 030-6740:3 |
|             | 3000 K       | 860lm         |            |
|             | 4000 K       | 900lm         |            |

## TARO 45



### DOWNLIGHT SQUARE TRACK

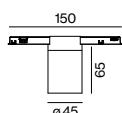
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 15W         | 2700 K       | 1000lm        | 030-6710:3 |
|             | 3000 K       | 1100lm        |            |
|             | 4000 K       | 1150lm        |            |



### DOWNLIGHT ROUND TRACK

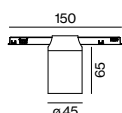
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 15W         | 2700 K       | 1000lm        | 030-6750:3 |
|             | 3000 K       | 1100lm        |            |
|             | 4000 K       | 1150lm        |            |

## TARO 45 wallwasher floor



### DOWNLIGHT SQUARE TRACK

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 9W          | 2700 K       | 530lm         | 030-6780:3 |
|             | 3000 K       | 570lm         |            |
|             | 4000 K       | 580lm         |            |



### DOWNLIGHT ROUND TRACK

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 9W          | 2700 K       | 530lm         | 030-6790:3 |
|             | 3000 K       | 570lm         |            |
|             | 4000 K       | 580lm         |            |

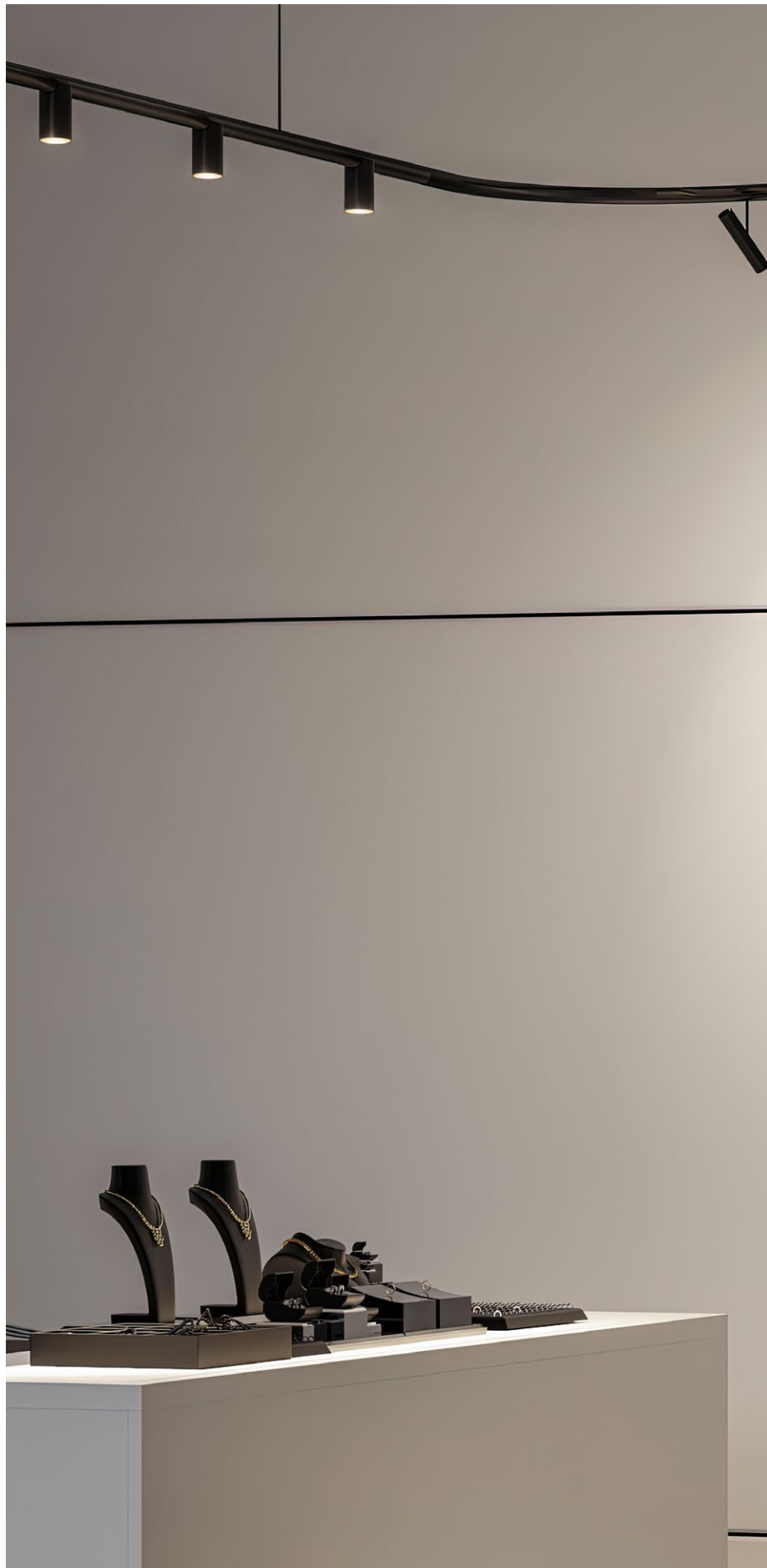
## Optical accessories

### HONEYCOMB LOUVER

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

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

**Jewellery Shop**  
Visualisation





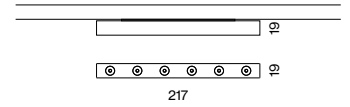




### Quickinfo

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

### Type



### Colours



### Light distributions



# GIRA

decorative inset 10



360°  
rotatable



wallwasher  
floor

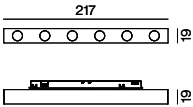
Order options

| COLOUR TEMPERATURE |   |
|--------------------|---|
| 2700 K             | 4 |
| 3000 K             | 5 |
| 4000 K             | 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        | 2700 K       | 1350 lm       | 0 3 0 - 6 4 1 0 :: 3 ▲ |
|             | 3000 K       | 1400 lm       |                        |
|             | 4000 K       | 1450 lm       |                        |

GIRA wallwasher floor

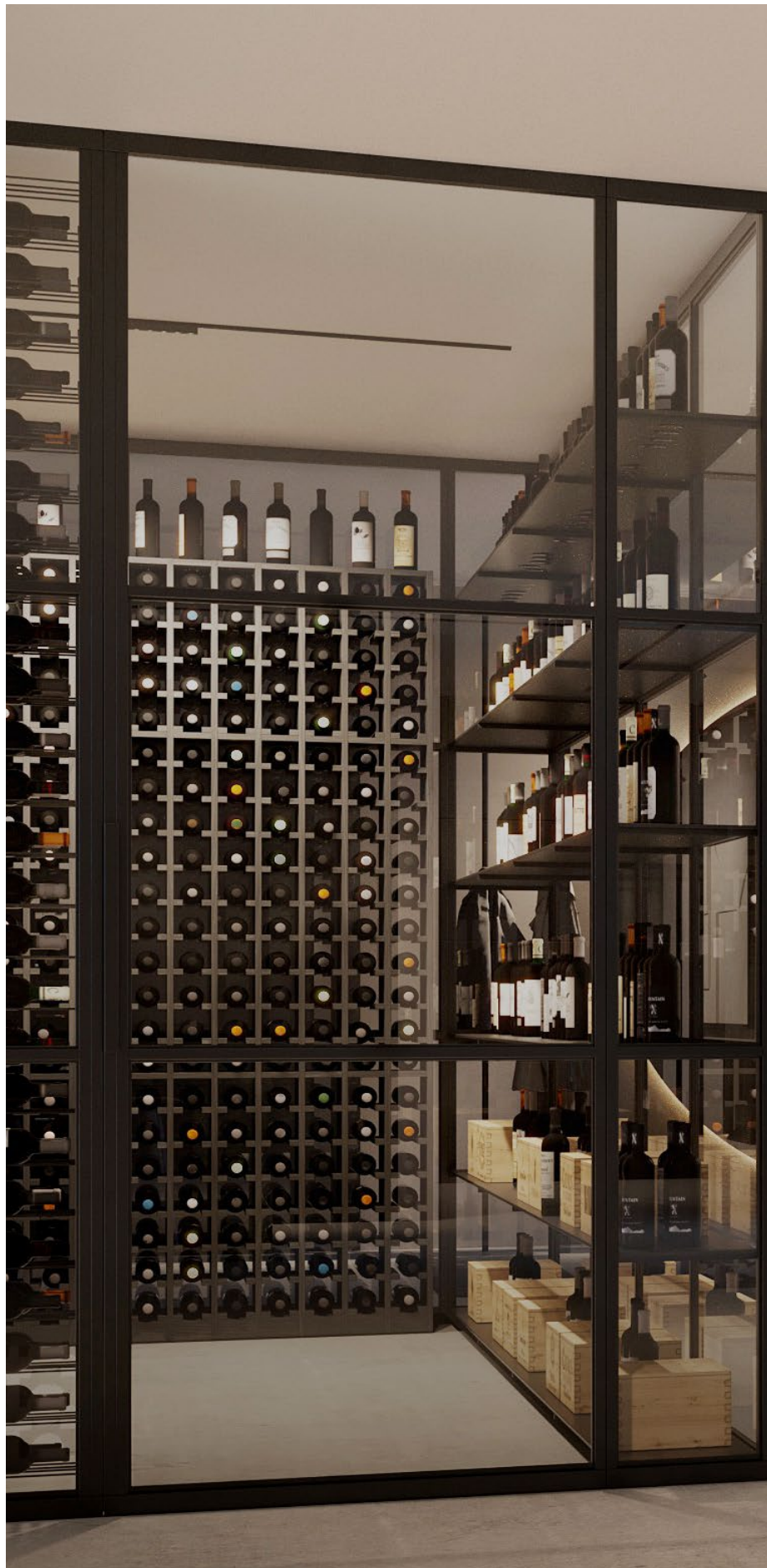


WALLWASHER FLOOR ROTATABLE

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

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

**Private Residence**  
Visualisation



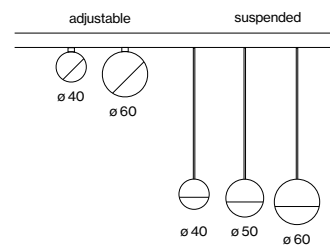




### Quickinfo

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

### Types



### Colours



### Light distribution



direct

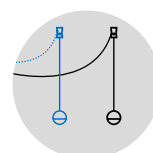


# NOBA

decorative inset 10



365° rotatable  
 90° tiltable



free positioning by  
 cable and hook



high quality  
 glass lens



## Order options

### COLOUR TEMPERATURE

|        |   |
|--------|---|
| 2700 K | 4 |
| 3000 K | 5 |
| 4000 K | 6 |

### CONTROL

DALI-2

### MATERIAL COLOUR

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

### MATERIAL COLOUR

#### ACCESSORIES

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

### BEAM ANGLE

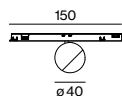
direct 80°

## Options on request

### MATERIAL COLOUR

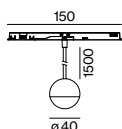
|                 |  |
|-----------------|--|
| ● gun metal     |  |
| ● brushed brass |  |
| ● rose gold     |  |

## NOBA 40



### SPOTLIGHT ADJUSTABLE

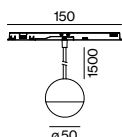
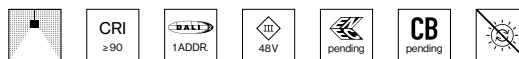
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 4.5 W       | 2700 K       | 465 lm        | 030-68003  |
|             | 3000 K       | 480 lm        |            |
|             | 4000 K       | 500 lm        |            |



### DOWNLIGHT SUSPENDED

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 4.5 W       | 2700 K       | 465 lm        | 030-69003  |
|             | 3000 K       | 480 lm        |            |
|             | 4000 K       | 500 lm        |            |

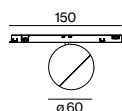
## NOBA 50



### DOWNLIGHT SUSPENDED

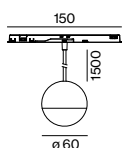
| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 9 W         | 2700 K       | 695 lm        | 030-69103  |
|             | 3000 K       | 725 lm        |            |
|             | 4000 K       | 760 lm        |            |

## NOBA 60



### SPOTLIGHT ADJUSTABLE

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 10 W        | 2700 K       | 715 lm        | 030-68203  |
|             | 3000 K       | 745 lm        |            |
|             | 4000 K       | 780 lm        |            |



### DOWNLIGHT SUSPENDED

| INSET POWER | COLOUR TEMP. | LUMINOUS FLUX | ORDER CODE |
|-------------|--------------|---------------|------------|
| 10 W        | 2700 K       | 715 lm        | 030-69203  |
|             | 3000 K       | 745 lm        |            |
|             | 4000 K       | 780 lm        |            |

## Mounting accessories

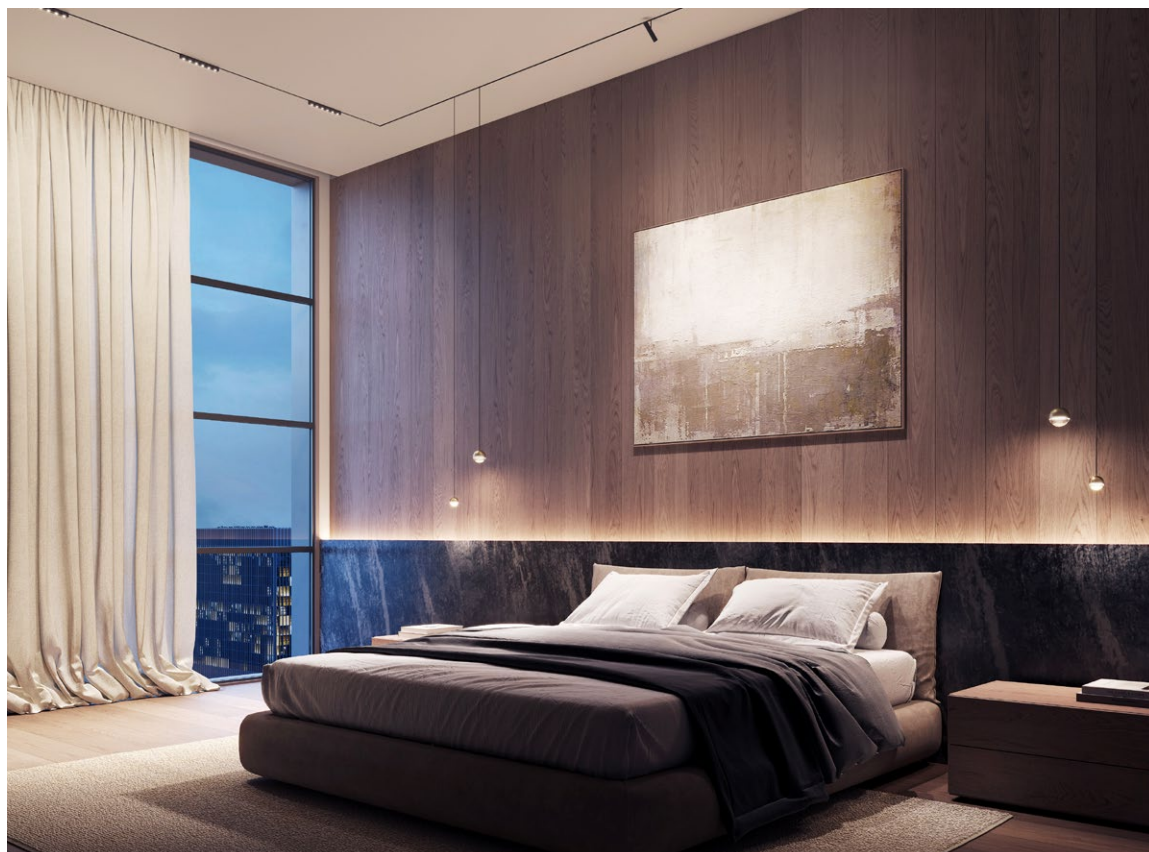


### HOOK ceiling mounted

| TYPE | Ø-H (mm) | ORDER CODE |
|------|----------|------------|
| hook | 16-30    | 030-100001 |

**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.

**IT** TUBO & SETA sono apparecchi in sistema di aspetto unitario e minimalista. Si possono collegare reciprocamente con flessibilità grazie a diversi tipi di giunti. Gli apparecchi sono previsti per montaggio a parete, soffitto e sospensione. Con il rifratore opale l'apparecchio TUBO diffonde una luminosità uniforme, mentre il caratteristico angolo di emissione fino a 340° illumina leggermente soffitto diffondendo un'atmosfera piacevole. Vanno poi menzionati i riflettori dell'apparecchio SETA, ottimizzati appositamente per gli uffici e concepiti per lavorare al computer. La componente indiretta illumina il soffitto con un effetto piacevole e omogeneo in ogni zona di lavoro. Il giunto CONEX (in attesa di brevetto) conferisce al sistema un elevato grado di flessibilità. Si tratta di un collegamento meccanico ed elettrico a L, T e X, con cui si possono realizzare forme geometriche su più livelli.

### Type



60

### Mountings



surface

suspended

### System configurations



linear



L

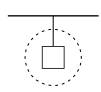


T



X

### Light distributions



opal

reflector  
(UGR ≤ 19)

direct

direct  
indirect

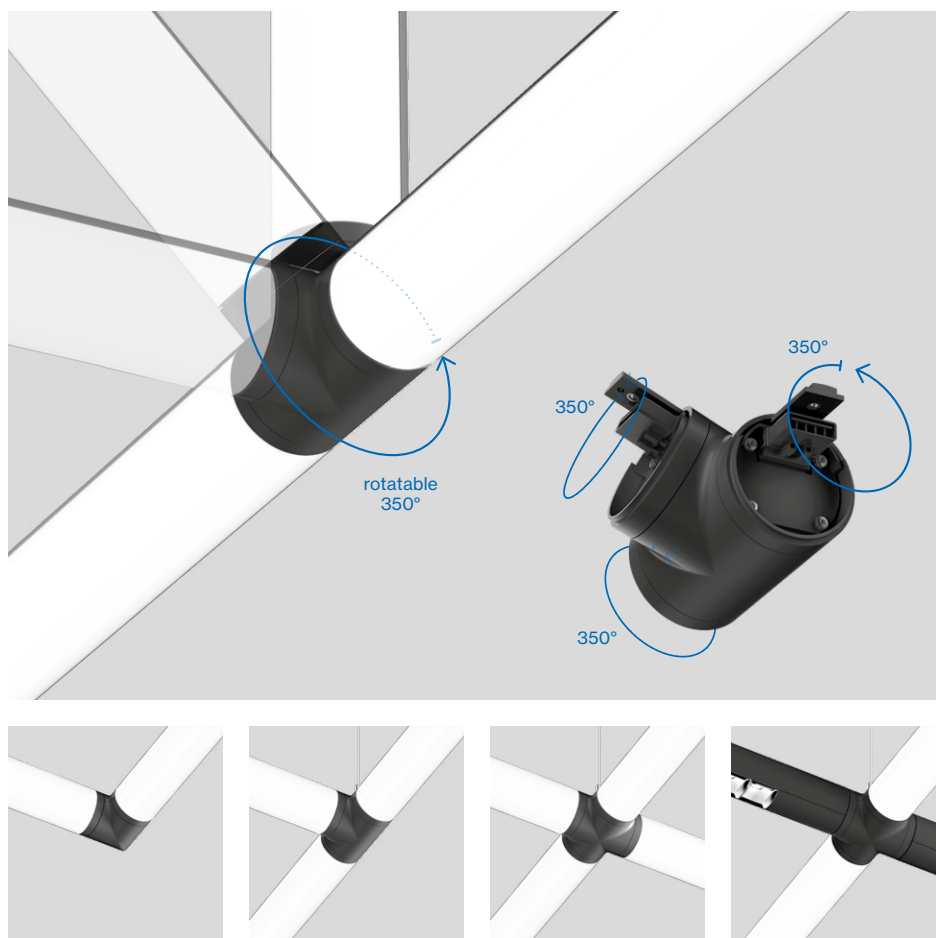
indirect



## 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.

**IT** Da oggi la libertà compositiva cresce ulteriormente con la giunzione CONEX per TUBO 60, in attesa di brevetto. La sua flessibilità permette di creare forme geometriche o interessanti sculture di luce. Con i giunti meccanici ed elettrici a L, T e X, si riesce a comporre un impianto visivamente unitario. In abbinamento al sistema SETA sono possibili molte altre destinazioni: ad esempio corridoi e uffici oppure sistemi di guida visiva.



## Easy mounting

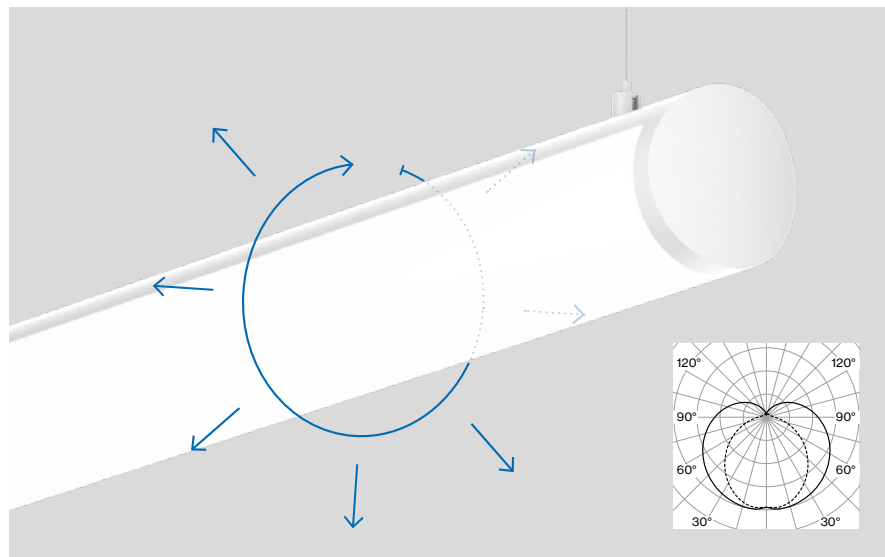
**EN** CONEX system luminaires are electrically and mechanically connected by a simple plug-in connection. This makes the installation of a complex lighting system simple, quick, and straightforward.

**IT** Il collegamento elettrico e meccanico degli apparecchi CONEX si effettua con semplici innesti. Pertanto installare un sistema in realtà complesso diventa semplice, veloce e senza complicazioni.

## 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.

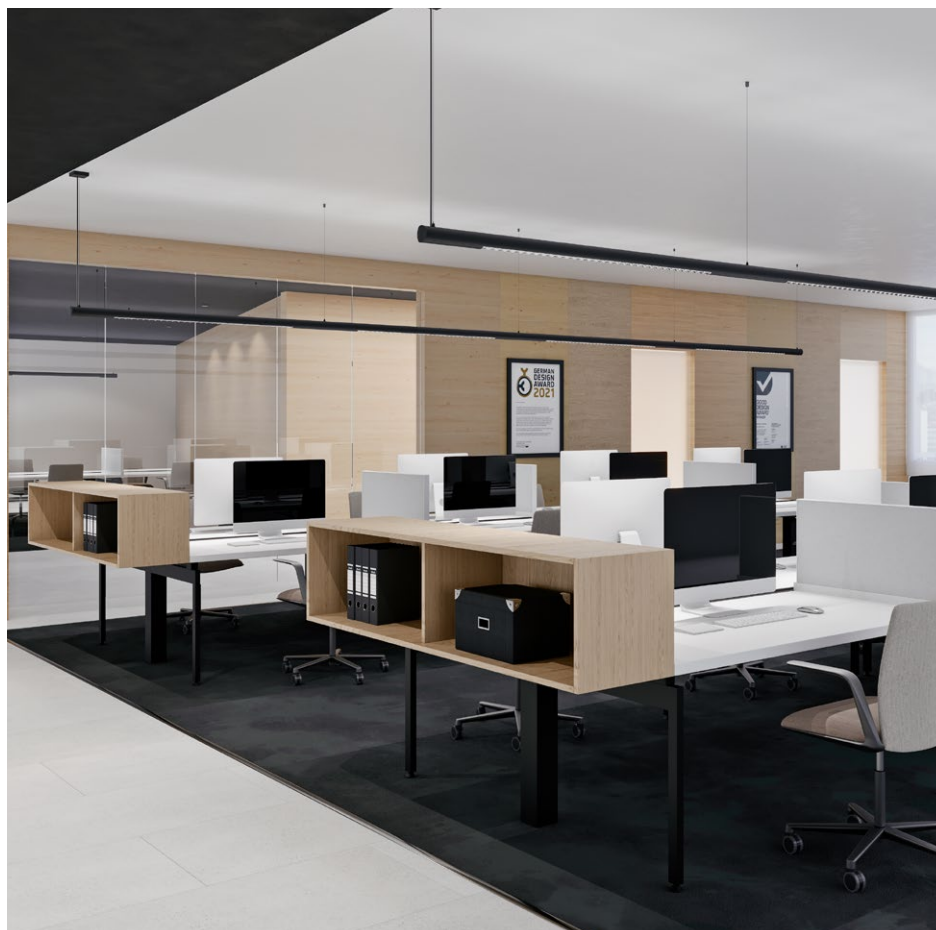
**IT** Con un fascio di emissione a 340° e il rifrattore opale, TUBO System diffonde una luminosità omogenea illuminando leggermente anche il soffitto. Pertanto l'apparecchio risulta perfetto ovunque si cerchi una gradevole illuminazione di sfondo, ad esempio in reception, corridoi o foyer.



## Work-friendly light

**EN** As an office luminaire, SETA guarantees illumination that is compliant with workplace standards (up to  $UGR \leq 16$ ). 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.

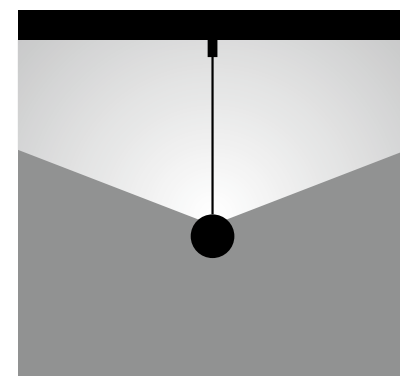
**IT** SETA in versione Office garantisce un'illuminazione a norma delle postazioni di lavoro (fino a  $UGR \leq 16$ ). I riflettori opportunamente schermati si abbinano a shutter in modo da dirigere la luce con precisione sui piani di lavoro riducendo i riflessi. Nella variante diretta/indiretta, una speciale tecnologia di lenti distribuisce la luce indiretta a fascio molto largo e omogeneo sul soffitto.



## 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.

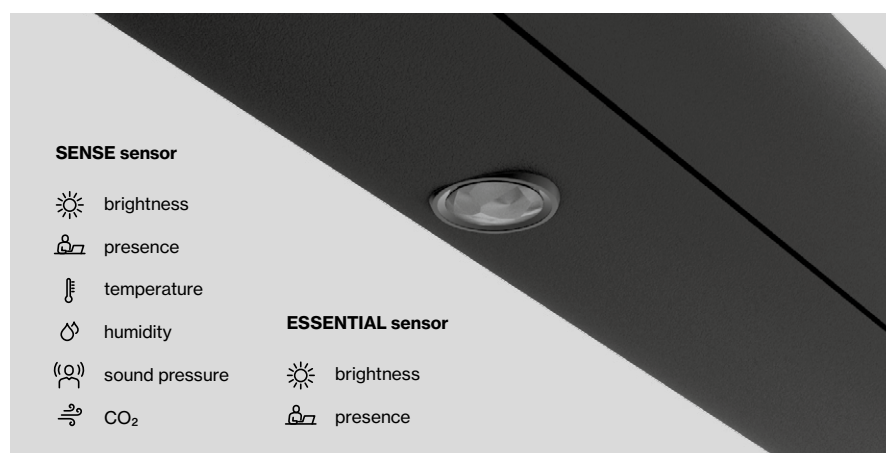
**IT** Per il controllo intelligente dell'illuminazione con la linea di prodotti SETA sono previsti sensori speciali. Il primo è il sensore ESSENTIAL, che consente la regolazione dinamica della luce in base alla luminosità circostante e all'attività svolta. La variante SENSE misura anche valori quali temperatura, qualità dell'aria, umidità e livello di rumore. Questi dati non solo forniscono importanti indicazioni sulle condizioni e sull'utilizzo degli ambienti, ma favoriscono anche il risparmio energetico a lungo termine.

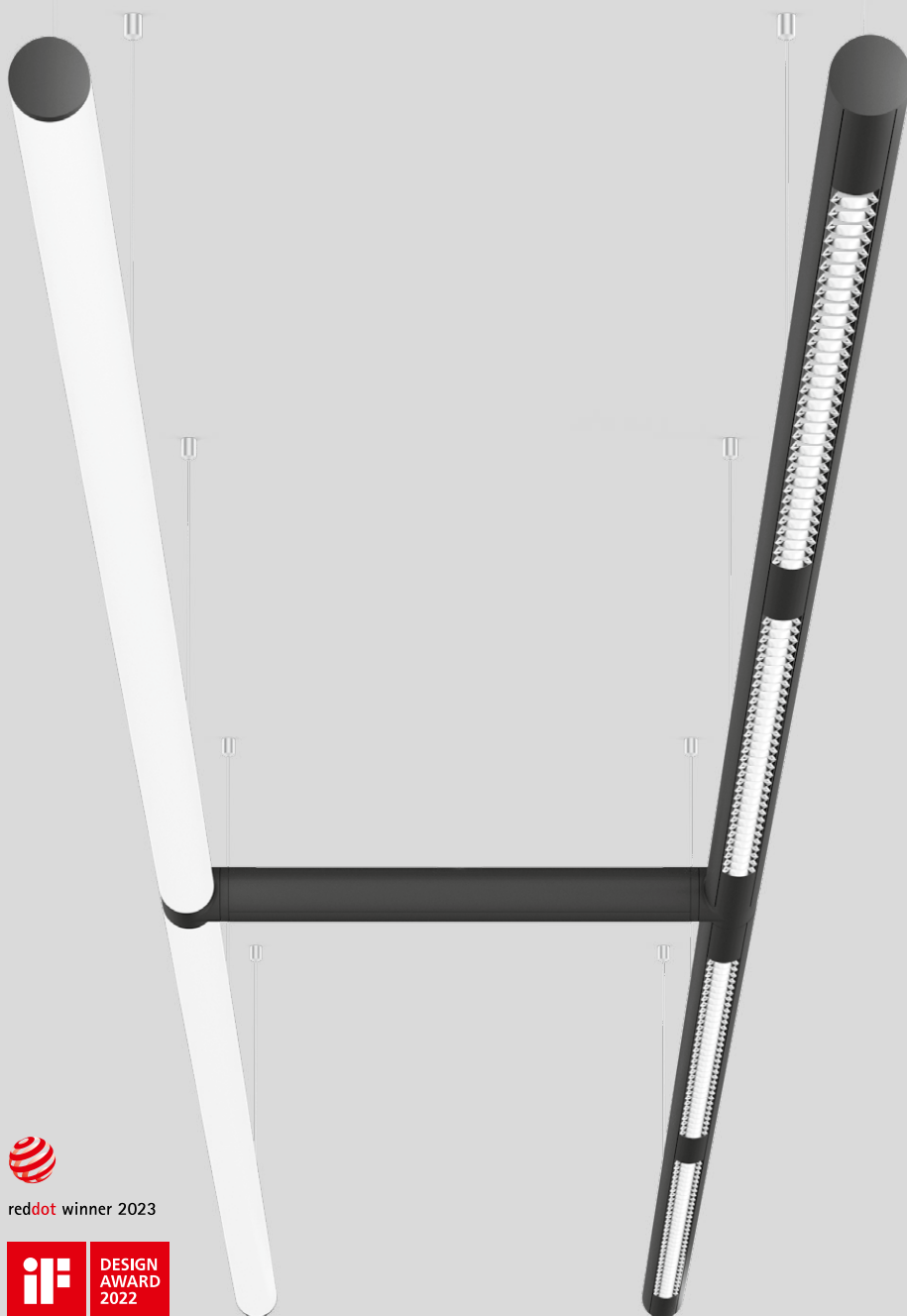


## Indirect version

**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.

**IT** SETA indirect riprende il design minimalista della linea di prodotti integrandolo con una variante indiretta che diffonde una luminosità omogenea sul soffitto. Ne deriva una percezione gradevole degli spazi e anche la possibilità di valorizzare le architetture dei soffitti.





red dot winner 2023

DESIGN  
AWARD  
2022

## TUBO/SETA 60 CONEX system

surface / suspended

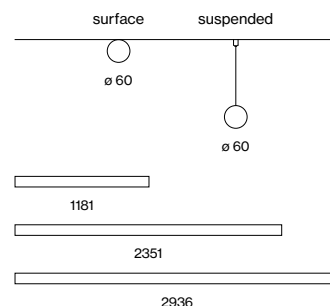
**EN** Cylindrical lighting system in aluminium; powder coated; ceiling surface mounting or suspended mounting; height adjustment without tools; with transparent feeder cable; electrical connection of the luminaires via plug/socket system; optionally connectors (L-, T- or X-shape); luminaire connection 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 PCBs and high quality lens system for homog. ceiling illumination, separately controllable; energy-eff. LEDs - very good colour rendering

**IT** Sistema di illuminazione cilindrico in alluminio; verniciatura a polvere; montaggio a soffitto o a sospensione; regolazione altezza senza utensili; con cavo di alimentazione trasparente; collegamento elettrico degli apparecchi tramite sistema presa/spina; connettore opzionale (a L, a T o a X); collegamento dell'apparecchio ruotabile attorno al proprio asse, il che rende possibile realizzare qualsiasi angolo spaziale; a scelta cover cilindrica HPO (High Performance Opal) o riflettore ad alta lucentezza con design sfaccettato; orientamento della luce controllabile tramite un'ottica lenticolare di alta qualità per un'illuminazione omogenea (HPO); emissione diretta, indiretta e diretta/indiretta (riflettore); componente luce indir. PCB speciali e ottica lent. di alta qualità per un'illuminazione omog. del soffitto, contr. separ.; LED a risp. energ. - ottima resa cromatica

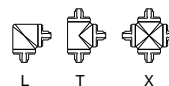
### Quickinfo

3000K, 4000K  
CRI  $\geq 80$ , 3 SDCM  
UGR  $\leq 19$  /  $65^\circ \leq 3000 \text{ cd/m}^2$   
opal up to  $3230 \text{ lm/m}$   
up to  $160 \text{ lm/W}$   
L90 @ 50000h  
DALI-2  
opal, reflector (UGR  $\leq 19$ )

### Types



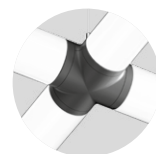
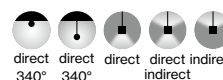
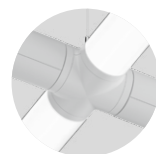
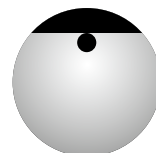
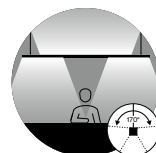
CONEX connector



### Colours



### Light distributions

connector  
CONEXcombinable with  
TUBO & SETAup to  $160 \text{ lm/W}$   
(high efficiency)DIN EN 12464-1  
UGR  $\leq 19$ TUBO: direct  
 $340^\circ$  uniform  
illuminationSETA: direct  
and  $170^\circ$  indirect  
illumination

## Order options

### THROUGH WIRE TYPE

|                                                                                               |   |
|-----------------------------------------------------------------------------------------------|---|
| 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

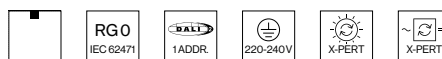
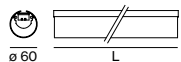
### MATERIAL COLOUR

|                       |   |
|-----------------------|---|
| ○ pure white RAL 9010 | 7 |
| ● jet black RAL 9005  | 8 |

### REFLECTOR COLOUR

|               |   |
|---------------|---|
| ✓ chrome      | R |
| ● dark chrome | B |

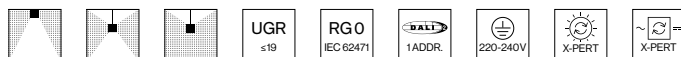
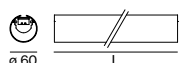
## TUBO 60 surface/suspended



### OPAL 340° DIRECT

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

## SETA 60 surface/suspended



### REFLECTOR DIRECT

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

### REFLECTOR DIRECT/INDIRECT

| SYS. POWER | COLOUR TEMP. | LUM. FLUX        | L (mm) | ORDER CODE                                                                                                                                                                                                                                                                    |
|------------|--------------|------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 45 W       | 3000K        | ↓ 2670/↑ 3530lm  | 1181   | 0 5 8 - 4 1  4  3  ■ |
| (2×DALI)   | 4000K        | ↓ 3040/↑ 4010lm  |        |                                                                                                                                                                                                                                                                               |
| 92 W       | 3000K        | ↓ 6240/↑ 7050lm  | 2351   | 0 5 8 - 4 1  8  3  ■ |
| (2×DALI)   | 4000K        | ↓ 7100/↑ 8030lm  |        |                                                                                                                                                                                                                                                                               |
| 116 W      | 3000K        | ↓ 8020/↑ 8820lm  | 2936   | 0 5 8 - 4 1  9  3  ■ |
| (2×DALI)   | 4000K        | ↓ 9130/↑ 10000lm |        |                                                                                                                                                                                                                                                                               |

### INDIRECT

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

### BLIND CHANNEL incl. through wiring

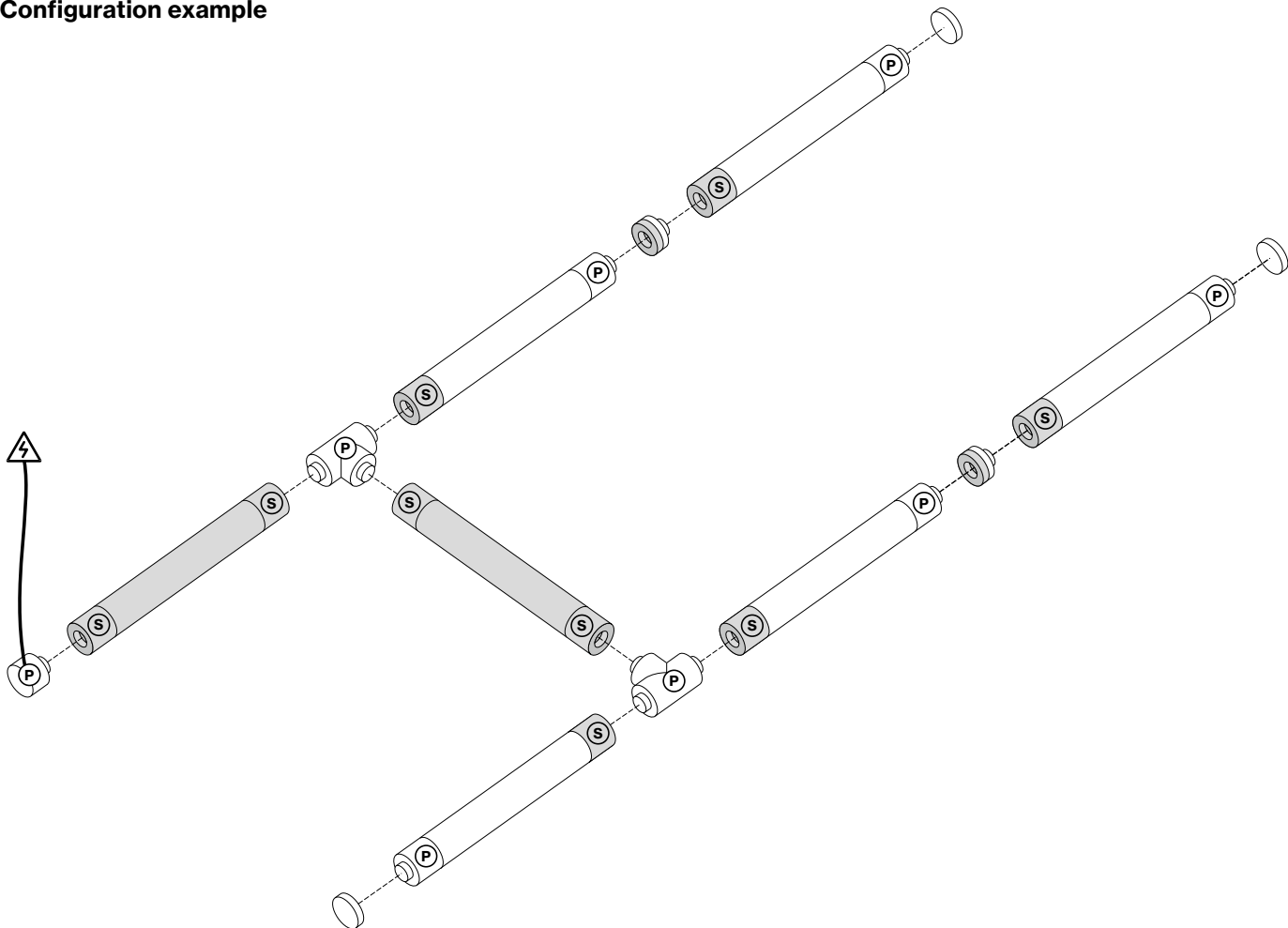
| L (mm) | ORDER CODE                                                                                                                                                                                  |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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



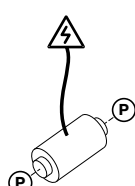
Configuration example



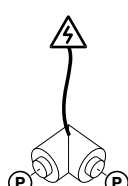
Components



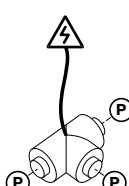
end cap  
power feeder



middle  
power feeder



L CONEX  
power feeder



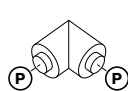
T CONEX  
power feeder



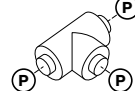
linear  
connector



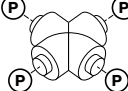
end cap



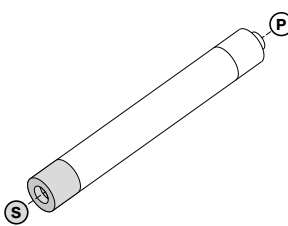
L CONEX  
connector



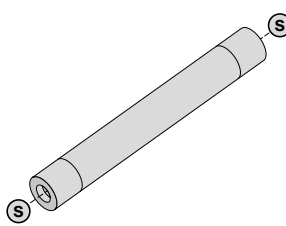
T CONEX  
connector



X CONEX  
connector



standard  
luminaire



CONEX  
luminaire

## Order options

| MATERIAL COLOUR       |   |
|-----------------------|---|
| ○ pure white RAL 9010 | 7 |
| ● jet black RAL 9005  | 8 |

| MATERIAL COLOUR<br>CABLE SUSPENSION |   |
|-------------------------------------|---|
| ✓ chrome                            | 0 |
| ● black                             | 8 |



## Accessories

### END CAP

| TYPE    | ORDER CODE |
|---------|------------|
| end cap | 058-301001 |

### POWER FEEDER SURFACE

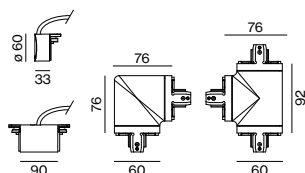
| TYPE                 |    | ORDER CODE |
|----------------------|----|------------|
| end cap power feeder | Ⓟ  | 058-301021 |
| middle power feeder* | ⓅⓅ | 058-301121 |

\*incl. feeder cable 5 × 1.5 mm<sup>2</sup>

### POWER FEEDER SUSPENDED incl. feeder cable 5 × 1.5 mm<sup>2</sup>

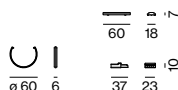
| TYPE                   | L (mm)   | ORDER CODE |
|------------------------|----------|------------|
| end cap power feeder   | Ⓟ 1500   | 058-301041 |
| middle power feeder*   | ⓅⓅ 1500  | 058-301131 |
| L CONEX power feeder** | ⓅⓅ 1500  | 058-301873 |
| T CONEX power feeder** | ⓅⓅⓅ 1500 | 058-301883 |

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



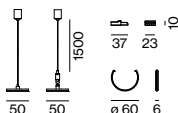
### LINEAR CONNECTOR

| TYPE                                     | ORDER CODE    |
|------------------------------------------|---------------|
| linear connector mechanical              | 058-301311    |
| linear connector mechanical & electrical | ⓅⓈ 058-301312 |



### LINEAR CONNECTOR SUSPENDED incl. cable suspension 1500 mm

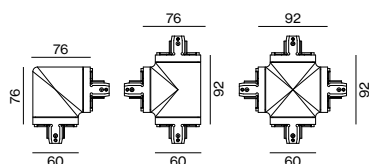
| TYPE                             | L (mm)  | ORDER CODE |
|----------------------------------|---------|------------|
| linear connector mechanical      | 1500    | 058-301321 |
| linear connector mech. & electr. | ⓅⓈ 1500 | 058-301322 |



### CONEX CONNECTOR

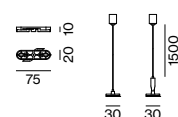
| TYPE                              | ORDER CODE      |
|-----------------------------------|-----------------|
| L CONEX connector mech. & electr. | ⓅⓅ 058-301872   |
| T CONEX connector mech. & electr. | ⓅⓅⓅ 058-301882  |
| X CONEX connector mech. & electr. | ⓅⓅⓅⓅ 058-301892 |

order CONEX cable suspension separately



### MOUNTING SET

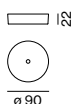
| TYPE                              | L (mm) | ORDER CODE |
|-----------------------------------|--------|------------|
| ceiling mounting set              | 75     | 058-301411 |
| cable suspension                  | 1500   | 058-301421 |
| cable suspension angular max. 60° | 1500   | 058-301431 |
| CONEX cable suspension            | 1500   | 058-301811 |



### CANOPY

| TYPE   | Ø-H (mm) | ORDER CODE |
|--------|----------|------------|
| canopy | 90-22    | 005-260003 |

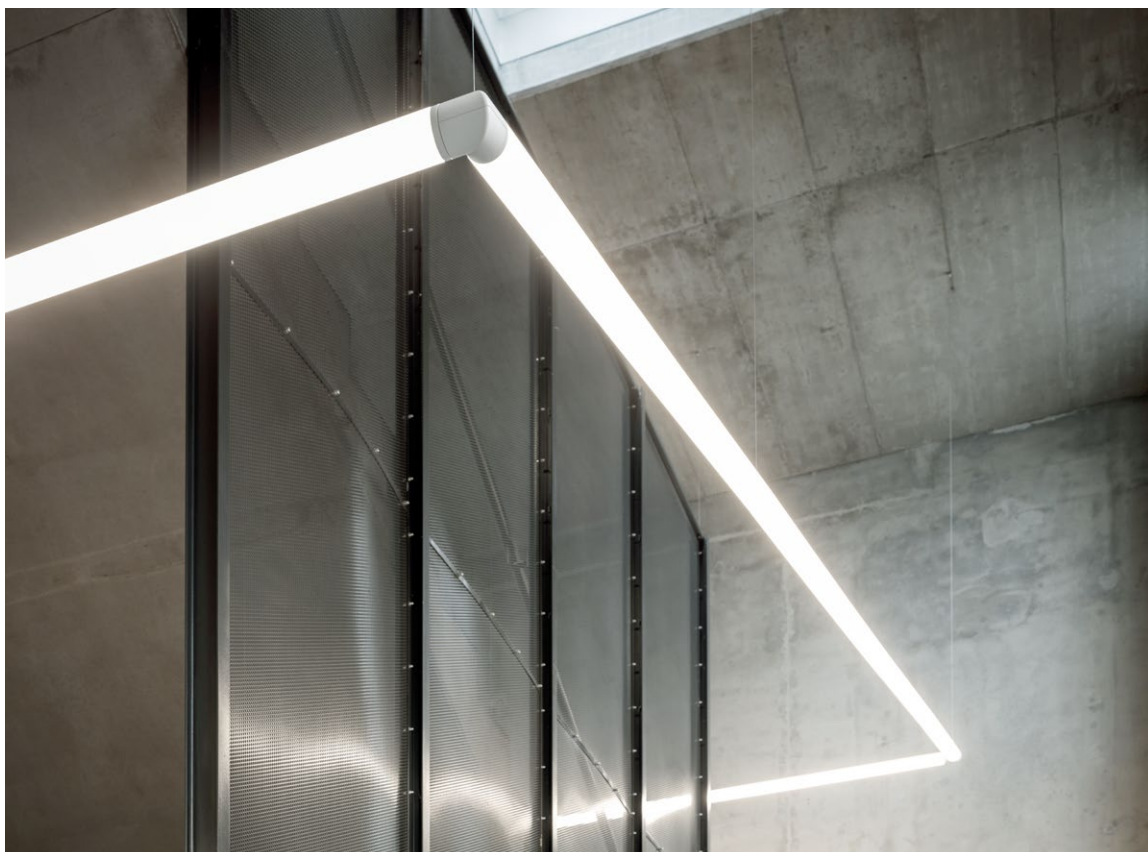
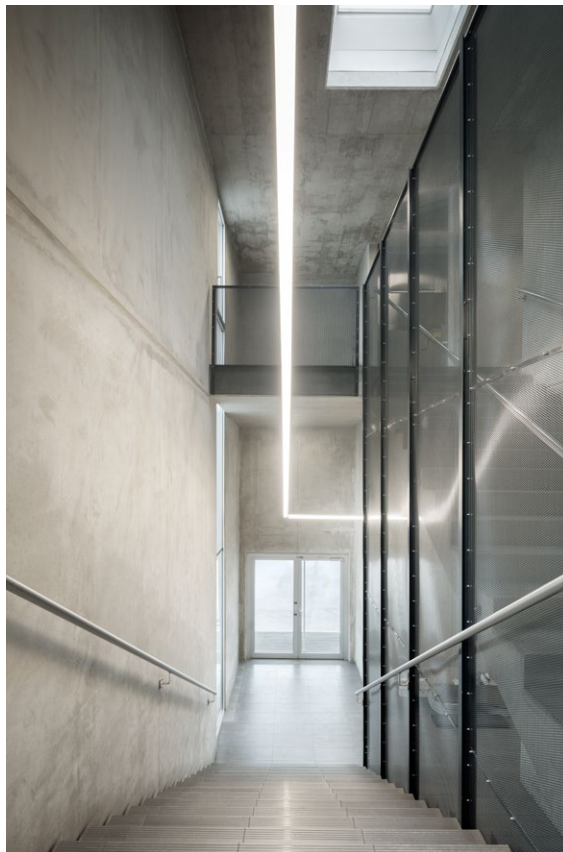
for electrical system configuration see luminaire data sheet at xal.com



### SENSOR DALI-2

| TYPE                                                                                  | ORDER CODE    |
|---------------------------------------------------------------------------------------|---------------|
| ESSENTIAL (brightness & presence)                                                     | ⓅⓅ 058-301911 |
| SENSE (brightness, presence, temperature, sound pressure, humidity, CO <sub>2</sub> ) | ⓅⓈ 058-301921 |



**XAL Headquarters** Graz, AT





# Discreet perfection

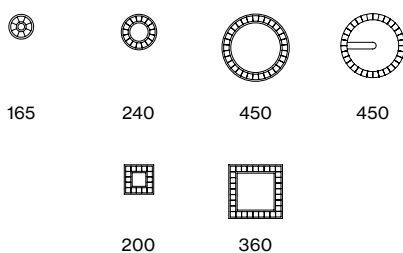


# MITA

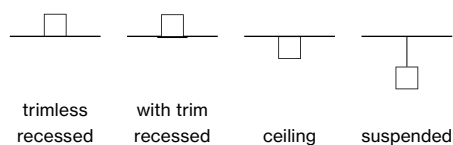
**EN** MITA combines high performance with a slim design language and its wide range of applications is impressive. The product family is available as recessed or surface-mounted luminaire in a round or square design as well as suspended version. All the versions of the luminaire have special reflectors 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.

**IT** MITA è un apparecchio che unisce la potenza ad un linguaggio formale slanciato, prestandosi così a molte applicazioni. La linea di prodotti è prevista per montaggio a incasso, plafone o sospensione, in versione rotonda o quadrata. Tutti i modelli sono costruiti con riflettori speciali per lavorare al computer, ideali pertanto in uffici o sale riunioni. La serie è disponibile nelle temperature di colore 3000 K e 4000 K o come opzione Tunable White. Volendo si può integrare nell'apparecchio un sensore di presenza e luminosità.

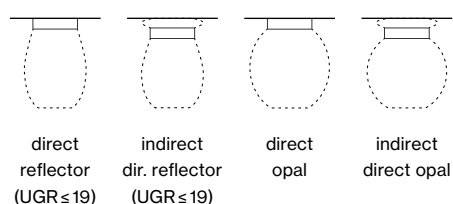
## Types



## Mountings



## Light distributions

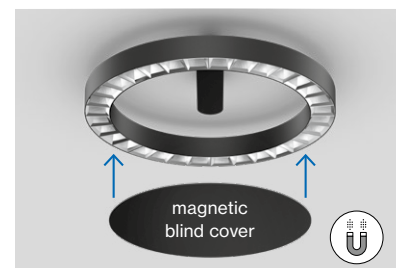




## Variety

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.

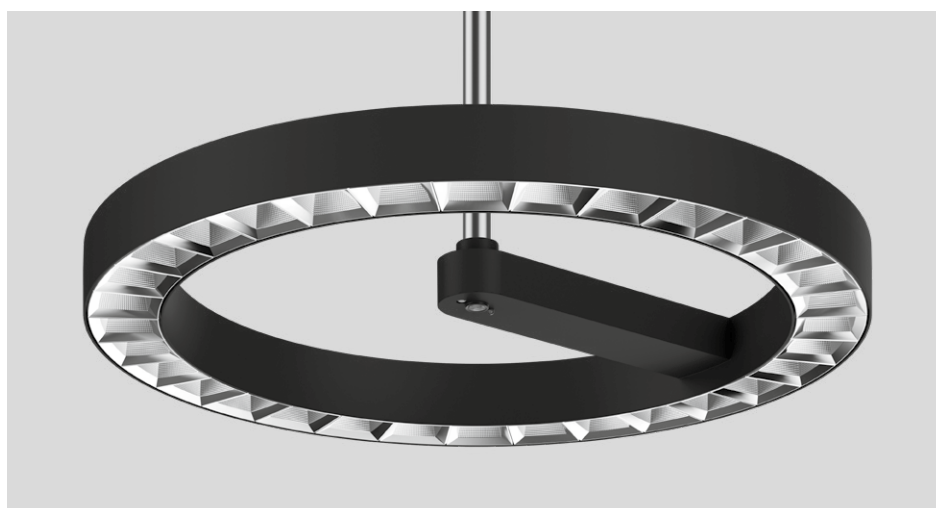
IT MITA vanta un linguaggio formale elegante e massima efficienza, ma convince anche per versatilità. La linea di prodotti è prevista per montaggio a incasso, plafone o sospensione, in versione rotonda o quadrata. Per mantenere unitario l'aspetto del soffitto si può fissare il rifrattore con un semplice meccanismo magnetico, disponibile in variante a riflettore o con copertura opale.



## 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.

IT Per il controllo intelligente dell'illuminazione con la linea di prodotti MITA sono disponibili sensori speciali. Il primo è il sensore ESSENTIAL, che consente la regolazione dinamica dell'illuminazione in base alla luminosità circostante e all'attività svolta. La variante SENSE misura anche valori quali temperatura, qualità dell'aria, umidità e livello di rumore. Questi dati non solo forniscono importanti indicazioni sulle condizioni e sull'utilizzo degli ambienti, ma favoriscono anche il risparmio energetico a lungo termine.



### ESSENTIAL sensor

-  brightness
-  presence

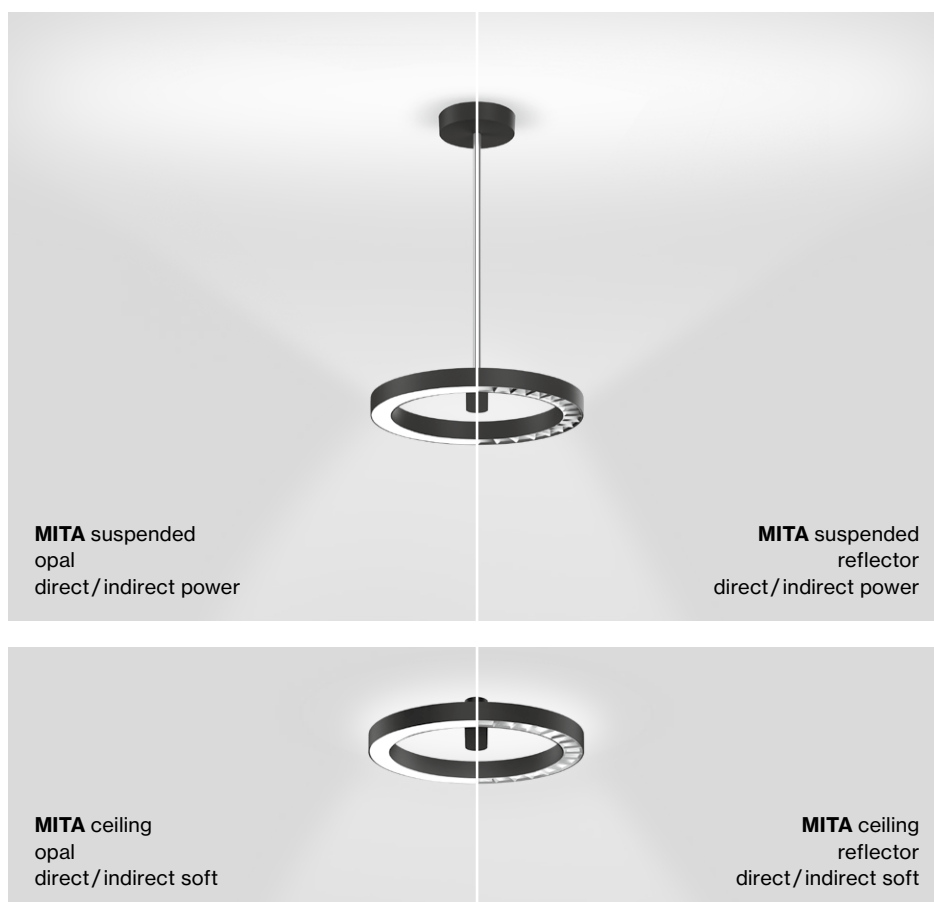
### SENSE sensor

-  brightness
-  presence
-  temperature
-  humidity
-  sound pressure
-  CO<sub>2</sub>

## 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.

**IT** MITA in versione Office garantisce un'illuminazione a norma delle postazioni di lavoro. I riflettori opportunamente schermati dirigono la luce con precisione sui piani di lavoro riducendo i riflessi. Nella variante diretta/indiretta dell'apparecchio a sospensione, la componente indiretta si distribuisce a fascio molto largo e omogeneo sul soffitto. La plafoniera a luce diretta/indiretta proietta invece una delicata luminosità sul soffitto, facendo sembrare l'apparecchio quasi fluttuante.

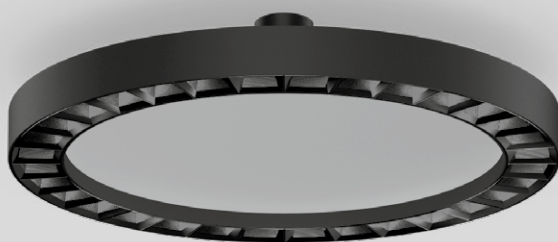
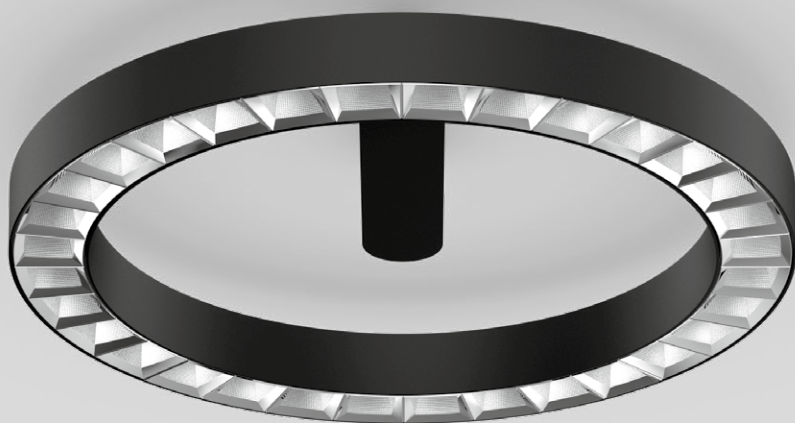


## Discreet accentuation

**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.

**IT** MITA ceiling sa creare accenti garbati per un'atmosfera piacevole. È disponibile in bianco o nero, a scelta con rifrattore. Quest'ultimo si fissa facilmente con un meccanismo magnetico. La componente indiretta crea una delicata luminosità sul soffitto, facendo sembrare l'apparecchio quasi fluttuante.





## MITA circle

ceiling

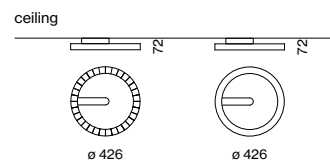
**EN** Ring shaped luminaire housing in die-cast aluminium; extremely slim design; surface powder coated; luminaire housing set away from ceiling; electronic operating unit installed in the surface mounted housing; surface mounted housing aligned from the ring to the center; optional: blind cover to 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

**IT** Corpo illuminante circolare in alluminio pressofuso; forma estremamente sottile; verniciatura a polvere; corpo distante dal soffitto; dispositivo di funz. elettr. nel housing a plafone; housing a plafone allineato dall'anello al centro; in opzione: copertura cieca, fissata nel vano interno per mezzo di un magnete, disponibile come accessorio; riflettore ad alta lucentezza con design sfaccettato; diffusore HPO (High Performance Opal) per un'illuminazione omogenea; a scelta con emissione diretta oppure diretta / indiretta; LED ad efficienza energetica con elevata resa cromatica

### 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



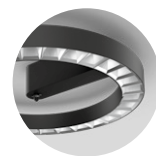
### Light distributions



dark chrome  
reflector option



up to 158 lm/W  
(high efficiency)



sensor version  
available



version with  
opal cover



magnetic  
blind cover



DIN EN 12464-1  
UGR ≤ 19

## Order options

| COLOUR TEMPERATURE |   |
|--------------------|---|
| 3000 K             | 5 |
| 4000 K             | 6 |

| CONTROL                                                                                             |   |
|-----------------------------------------------------------------------------------------------------|---|
| DALI-2                                                                                              | 3 |
| DALI-2 ESSENTIAL sensor<br>(brightness & presence)                                                  | B |
| DALI-2 SENSE sensor<br>(brightness, presence, temp.,<br>sound pressure, humidity, CO <sub>2</sub> ) | P |

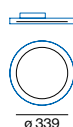
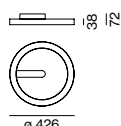
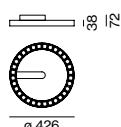
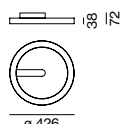
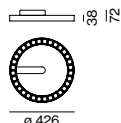
| MATERIAL COLOUR          |   |
|--------------------------|---|
| ○ traffic white RAL 9016 | 7 |
| ● jet black RAL 9005     | 8 |

| 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      |
|--------------|--------------|---------------|-----------------|
| 30 W         | 3000 K       | 4210 lm       | 0 7 4 - 7 5 1 1 |
|              | 4000 K       | 4790 lm       |                 |
| 40 W         | 3000 K       | 5470 lm       | 0 7 4 - 7 5 2 1 |
|              | 4000 K       | 6230 lm       |                 |

### OPAL DIRECT

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



### REFLECTOR DIRECT / INDIRECT SOFT

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

### OPAL DIRECT / INDIRECT SOFT

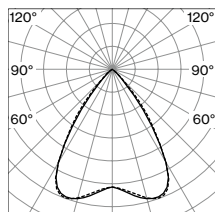
| SYSTEM POWER | COLOUR TEMP. | LUMINOUS FLUX     | ORDER CODE      |
|--------------|--------------|-------------------|-----------------|
| 24.9 W       | 3000 K       | ↓ 2700 / ↑ 136 lm | 0 7 4 - 7 5 3 1 |
|              | 4000 K       | ↓ 3080 / ↑ 155 lm |                 |

## Accessories

### BLIND COVER

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

## Light distribution



reflector (UGR ≤ 19)  
direct

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

**Meeting room**  
Visualisation









**Hallway**  
Visualisation









## MITA circle

suspended

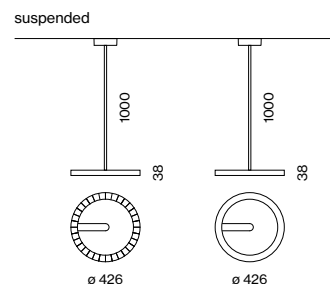
**EN** Ring shaped luminaire housing in die-cast aluminium; extremely slim design; surface powder coated; suspended; with height adjustable rod suspension (chrome), feed in rod; electronic operating unit installed in the canopy; optional: blind cover to cover the cut-out, held by magnet, available as 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

**IT** Corpo illuminante circolare in alluminio pressofuso; forma estremamente sottile; verniciatura a polvere; sospeso; con asta di sospensione accorciabile (cromata), cavo alimentazione nell'asta di sospensione; alimentatore elettronico montato nel rosone; in opzione: copertura cieca, fissata nel vano interno per mezzo di un magnete, disponibile come accessorio; riflettore ad alta lucentezza con design sfaccettato; diffusore HPO (High Performance Opal) per un'illuminazione omogenea; a scelta con emissione diretta oppure diretta/indiretta; LED ad efficienza energetica con elevata resa cromatica

### Quickinfo

3000 K, 4000 K  
CRI  $\geq 80$ , 3 SDCM  
UGR  $\leq 19$  /  $65^\circ \leq 1500$  cd/m<sup>2</sup>  
up to 160 lm/W  
L90 @ 50 000 h  
DALI-2, DALI-2 sensor  
reflector (UGR  $\leq 19$ ), opal

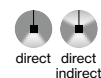
### Types



### Colours



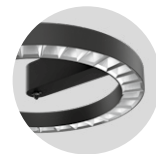
### Light distributions



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  $\leq 19$

## Order options

### SUSPENSION

rod 1000 mm

### COLOUR TEMPERATURE

|       |   |
|-------|---|
| 3000K | 5 |
| 4000K | 6 |

### CONTROL

|                                                                                                     |   |
|-----------------------------------------------------------------------------------------------------|---|
| DALI-2                                                                                              | 3 |
| DALI-2 ESSENTIAL sensor<br>(brightness & presence)                                                  | B |
| DALI-2 SENSE sensor<br>(brightness, presence, temp.,<br>sound pressure, humidity, CO <sub>2</sub> ) | 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

### SUSPENSION

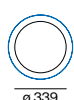
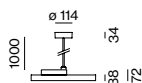
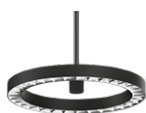
rod 1000 mm white  
rod 1000 mm black

### COLOUR RENDERING INDEX

CRI ≥ 90

### COLOUR TEMPERATURE

tunable white 2700–6500K



## MITA circle 450 suspended



UGR  
≤ 19

cd/m<sup>2</sup>  
≤ 1500



1.ADDR.



### REFLECTOR DIRECT

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

### OPAL DIRECT

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



UGR  
≤ 19

cd/m<sup>2</sup>  
≤ 1500



1.ADDR.



### REFLECTOR DIRECT / INDIRECT POWER

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

### OPAL DIRECT / INDIRECT POWER

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

## 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

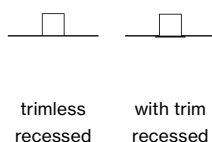
**EN** Round, recessed SPIO spotlights bring special lighting to your rooms. The luminaire provides an impressive lighting effect, trimless or with a trim. The housing can be painted over, allowing the spotlight to blend seamlessly into the ceiling. The small light aperture of 10 mm makes the SPIO itself 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 2700 K, 3000 K, and 4000 K.

**IT** I faretti rotondi da incasso SPIO portano nell'ambiente un'illuminazione particolare. Costruiti con o senza cornice, generano comunque un effetto di luce molto interessante. L'armatura può essere semplicemente tinteggiata: in questo modo il faretto si fonde alla perfezione con la superficie. La stessa apertura di emissione, di soli 10 mm, sembra tenere il faretto SPIO quasi nascosto. Tuttavia l'effetto generale, suggestivo e riposante, è tutt'altro che invisibile. Lo spot rotondo è previsto con angolo di emissione di 34° o 44°. L'elemento si ruota di 360° e si orienta di 30° in tutte le direzioni. Per SPIO 20 è disponibile anche un'ottica Wallwasher Floor che assicura una luminosità uniforme sulle pareti. Con questo sistema si diversifica la composizione di luce. SPIO è disponibile nelle temperature di colore 2700 K, 3000 K e 4000 K.

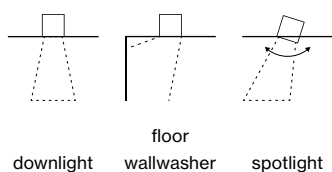
## Types



## Mountings



## Light distributions

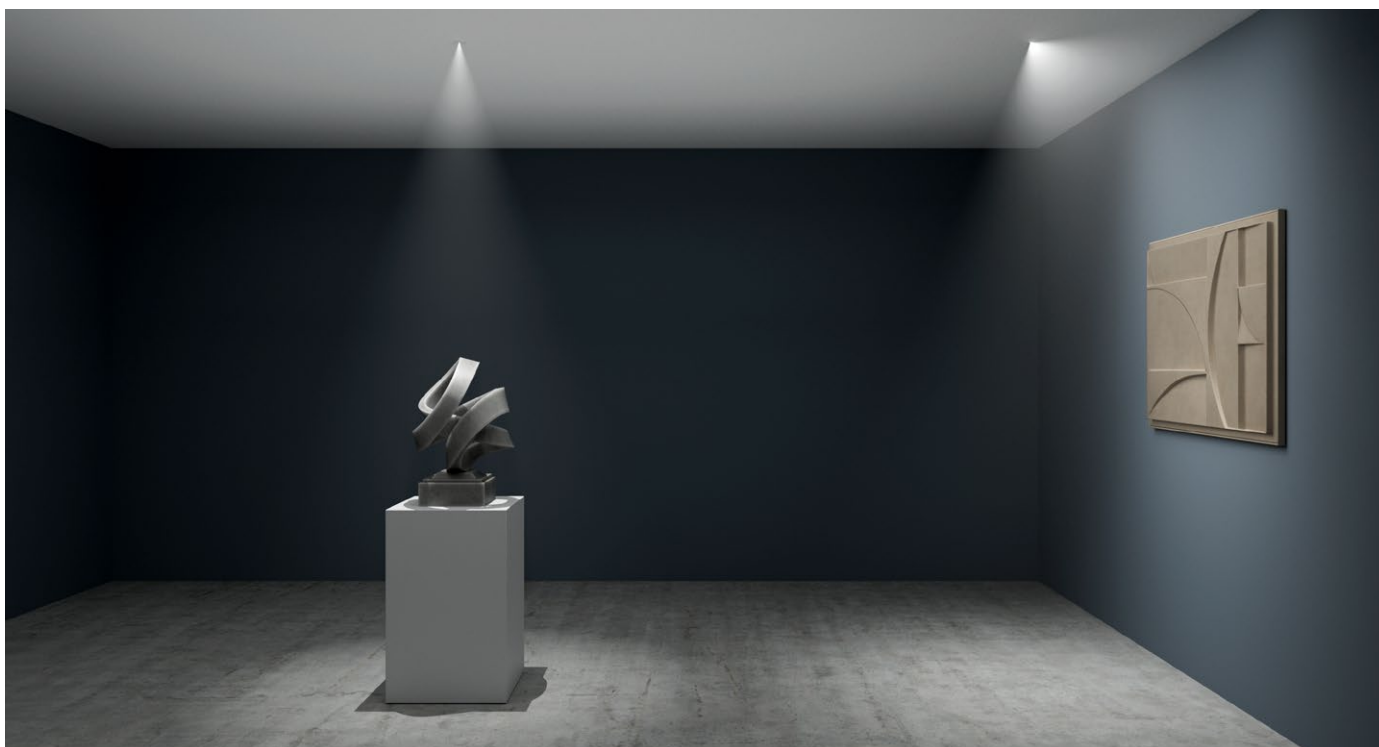
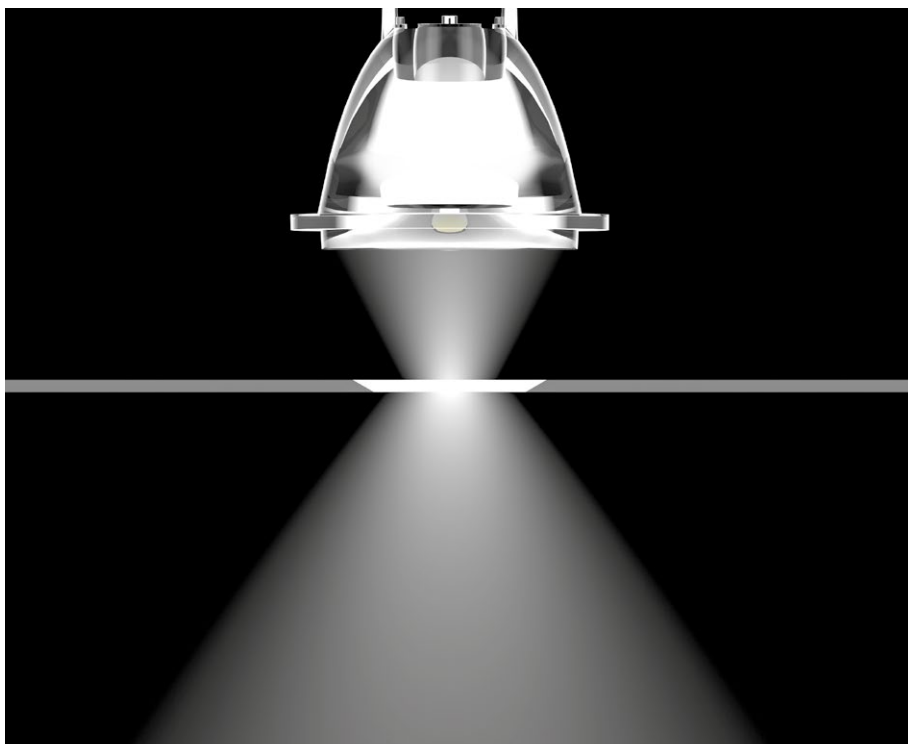




## High-efficiency lens

**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.

**IT** Luce di grande efficacia ma quasi impercettibile. SPIO è costruito con lenti speciali LFO, montate a una distanza precisa dalla superficie di emissione della luce. Questa distanza è calcolata in modo tale che le radiazioni luminose non incidano sulla parte interna. In altre parole la superficie di emissione si riduce e i faretti SPIO illuminano senza farsi notare.



## Homogeneous appearance

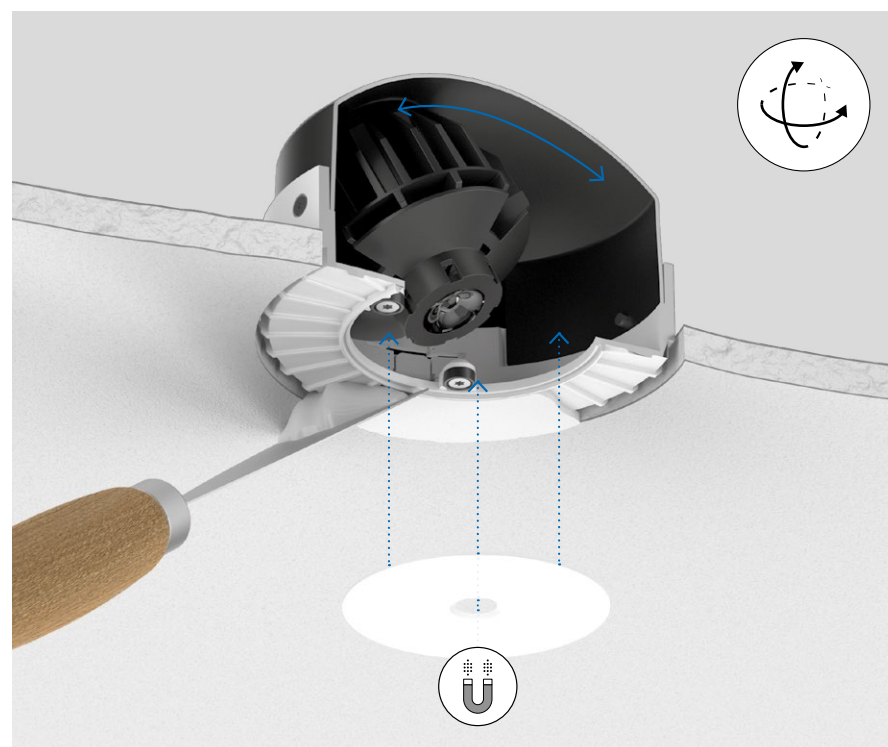
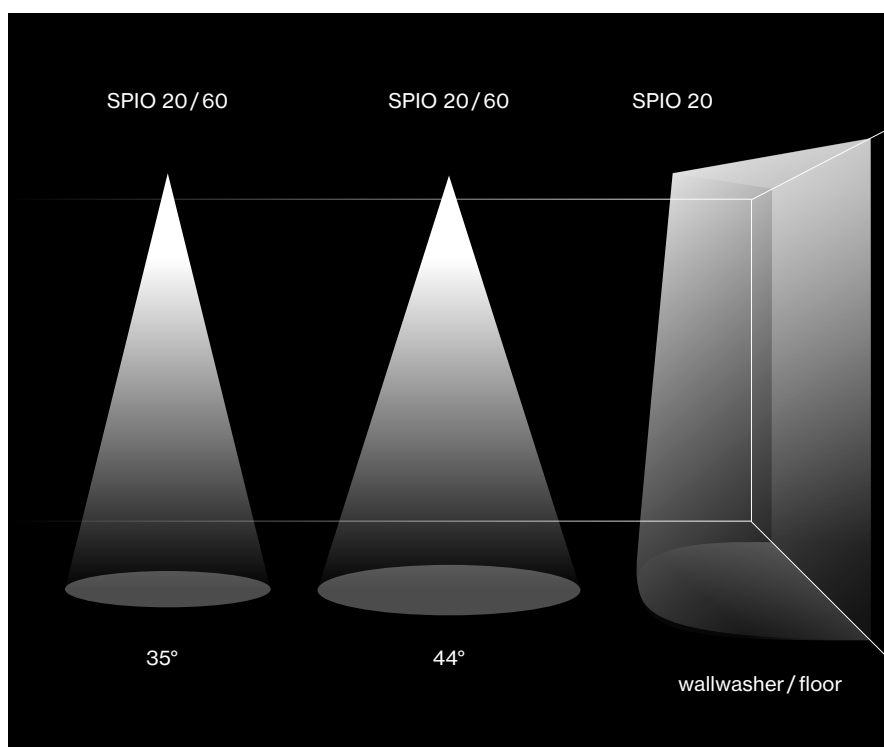
**EN** SPIO is the right choice for a uniform ceiling appearance. Thanks to its extremely small light aperture of 10 mm, the recessed spotlight appears almost invisible. The effective lighting is rounded off by its minimalist design language.

**IT** SPIO costituisce la scelta migliore per un soffitto di aspetto unitario. Con la sua apertura di emissione decisamente ridotta, di soli 10 mm, il faretto incassato sembra quasi invisibile. Il particolare effetto di luce è sottolineato dal minimalismo del linguaggio formale.

## 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.

**IT** A dispetto della superficie di emissione ridotta, il faretto SPIO distribuisce la luce con un angolo di 34° o 44° a scelta. Per SPIO 20 è prevista anche un'ottica Wallwasher Floor che assicura una luminosità omogenea sulle pareti. Ne deriva un'illuminazione che non abbaglia e che mette gli oggetti abilmente in scena.



## 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.

**IT** SPIO 60 in versione adjustable, per la quale è stato richiesto il brevetto, si muove in tutte le direzioni con una testata magnetica. Pertanto il faretto non si limita a ruotare di 360° ma si inclina fino a 30° in ogni direzione. Ne deriva un'assoluta flessibilità nel guidare la luce esattamente dov'è richiesto.

## 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.

**IT** La variante SPIO 60 senza bordi si regola con facilità grazie alla sua copertura magnetica. Il faretto si incassa interamente in un soffitto di cartongesso. In seguito l'alloggiamento può essere tinteggiato insieme al soffitto. In questo modo gli spot diventano "invisibili", creando un aspetto d'insieme omogeneo e suggestivo.



## SPIO 20

recessed

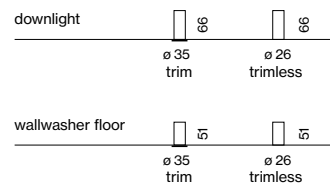
**EN** Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system or using snap spring closure; special mounting tool for easy installation of the trimless housing available as an accessory; for trimless installation in plasterboard ceilings; paintable 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  $\varnothing 10$  mm (DOWNLIGHT) or  $\varnothing 13$  mm (WALLWASHER/FLOOR); no multiple shadows; energy-eff. LEDs - very good colour rendering

**IT** Faretto da incasso rotondo in alluminio pressofuso; montaggio senza attrezzi con il set di montaggio con moschettone sferico o con chiusura a molla a scatto; utensile di montaggio speciale per una facile installazione dell'housing senza bordi disponibile come accessorio; incasso a scomparsa in soffitti di cartongesso; unità luminosa verniciabile; giunto nascosto tra l'insero luminoso e il set di montaggio stuccabile a scelta; o con bordo perimetrale; a scelta con ottica lenticolare di precisione; oppure riflettore d'alta qualità con ottica sfaccettata in alluminio applicato a vapore; curva fotometrica precisa con diversi angoli di emissione; superficie di emissione arretrata per un soffitto di aspetto armonioso; superficie di emissione della luce ridotta: solo  $\varnothing 10$  mm (DOWNLIGHT) o  $\varnothing 13$  mm (WALLWASHER/FLOOR); assenza di ombre multiple; LED a risp. energ. - ottima resa cromatica

### Quickinfo

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

### Types



### Colours



### Light distributions



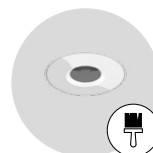
version with trim available



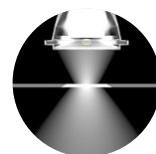
10 mm light output area



trimless installation



paintable cover



LFO lens technology



wallwasher floor

## Order options

## COLOUR TEMPERATURE

|        |   |
|--------|---|
| 2700 K | 4 |
| 3000 K | 5 |

## MATERIAL COLOUR

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

## REFLECTOR COLOUR

|                      |  |
|----------------------|--|
| ● 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

4000 K

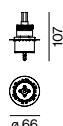
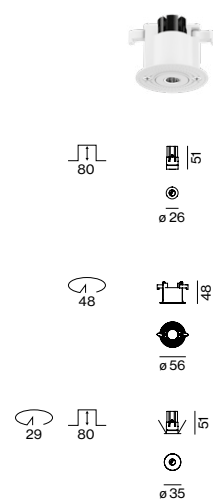
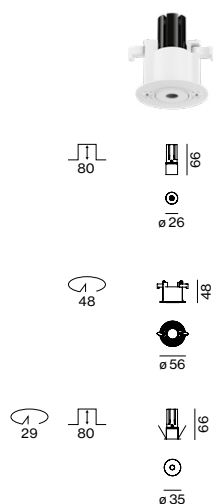
## CONCRETE HOUSING

primed concrete ceiling  
exposed concrete ceiling

## REFLECTOR COLOUR

○ traffic white\* RAL9016

\*only for wallwasher / floor



## SPIO 20 downlight



## DOWNLIGHT TRIMLESS

| INSET POWER        | LUMINOUS FLUX | ORDER CODE              |
|--------------------|---------------|-------------------------|
| 6.5 W 12 Vf 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            |
|-------------------------|-----------------------|
| ○ traffic white RAL9016 | 0 4 8 - 1 6 9 8 1 0 7 |

## DOWNLIGHT TRIM

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

## SPIO 20 wallwasher / floor



## WALLWASHER / FLOOR TRIMLESS

| INSET POWER          | LUMINOUS FLUX | ORDER CODE                |
|----------------------|---------------|---------------------------|
| 5.9 W 5.6 Vf 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            |
|-------------------------|-----------------------|
| ○ traffic white RAL9016 | 0 4 8 - 1 6 9 8 1 0 7 |

## WALLWASHER / FLOOR TRIM

| INSET POWER          | LUMINOUS FLUX | ORDER CODE              |
|----------------------|---------------|-------------------------|
| 5.9 W 5.6 Vf 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. 43 V   non DIM  | η 85 %     | 147-44-22  | 0 0 2 - 9 0 7 8 3 |
| 600 mA   max. 46 V   DALI-2   | η 85 %     | 143-43-30  | 0 0 2 - 9 0 7 8 4 |
| 1050 mA   max. 25 V   non DIM | η 85 %     | 111-38-28  | 0 0 2 - 9 0 7 8 7 |
| 1050 mA   max. 42 V   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                     | 72-90-63   | 0 0 5 - 6 5 2 0 2 1 0 |
| 160 W   48 V DC constant voltage              |            |                       |
| LED DRIVER DALI-2 DT6 1–2 addr.               | 36-88-59   | 0 0 5 - 6 1 2 1 0 3 0 |
| 200–1050 mA settable const. current           |            |                       |
| 2 × 42 W   48 V DC   U <sub>OUT</sub> 10–40 V |            |                       |

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,

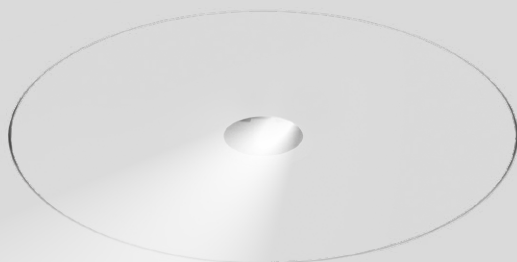
2700 K -3 %



**Private Residence**  
Visualisation







reddot winner 2022



DESIGN  
AWARD  
2022

## SPIO 60

recessed

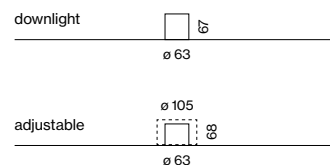
**EN** Round recessed spotlight in die-cast aluminium; installation without tools in mounting set with ball catch system or with magnetic attachment; for trimless installation in plaster-board ceilings; paintable cover; shadow joint between cover and mounting set optionally fillable; or with trim; choice of adjustable or fixed symmetric radiation characteristic; high quality lens system; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface (only  $\varnothing 10$  mm); no multiple shadows; efficient LEDs with very good colour rendering

**IT** Faretto da incasso rotondo in alluminio pressofuso; set di fissaggio con cuscinetto a sfera, senza bisogno di utensili o con attacco magnetico; incasso a scomparsa in soffitti di cartongesso; piastra verniciabile; giunto nascosto tra la piastra e il set di montaggio stuccabile a scelta; o con bordo perimetrale; emissione a scelta regolabile o fissa simmetrica; ottica lenticolare di qualità; superficie di emissione arretrata per un soffitto di aspetto armonioso; superficie di emiss. ridotta (solo  $\varnothing 10$  mm); assenza di ombre multiple; LED efficienti con alta resa cromatica

### Quickinfo

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

### Types



### Colours



### Light distributions



flood wide flood



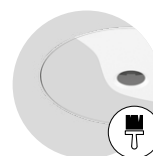
version with  
trim available



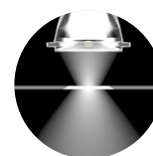
10 mm light  
output area



trimless  
installation



paintable  
cover



LFO lens  
technology



## Order options

### COLOUR TEMPERATURE

|        |   |
|--------|---|
| 2700 K | 4 |
| 3000 K | 5 |

### MATERIAL COLOUR

○ traffic white RAL9016

paintable cover

### BEAM ANGLE

|                |   |
|----------------|---|
| flood 35°      | F |
| wide flood 44° | W |

## Options on request

### COLOUR TEMPERATURE

|        |  |
|--------|--|
| 4000 K |  |
|--------|--|

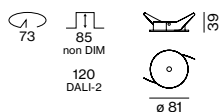
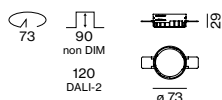
### CONCRETE HOUSING

primed concrete ceiling

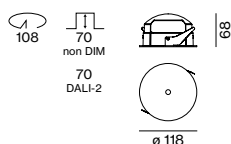
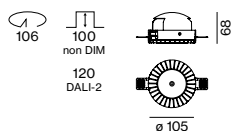
exposed concrete ceiling



ø 63



ø 59



ø 118

## SPiO 60 downlight



### DOWNLIGHT

#### INSET POWER

11.9 W 12 Vf 1050 mA

#### LUMINOUS FLUX

718 lm

#### ORDER CODE

0 4 8 - 1 5 1 0 : 1 7 ▲

## Mounting accessories

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

#### COLOUR

○ traffic white RAL9016

#### ORDER CODE

0 4 8 - 2 6 9 6 1 1 7

### MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

#### COLOUR

○ traffic white RAL9016

#### ORDER CODE

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



### ADJUSTABLE

#### INSET POWER

11.9 W 12 Vf 1050 mA

#### LUMINOUS FLUX

685 lm

#### ORDER CODE

0 4 8 - 1 5 2 0 : 1 7 ▲

## Mounting accessories

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

#### COLOUR

○ traffic white RAL9016

#### ORDER CODE

0 4 8 - 1 5 9 8 1 0 7

### MOUNTING SET WITH TRIM for intermediate ceilings 2–25 mm

#### COLOUR

○ traffic white RAL9016

#### ORDER CODE

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 220-240 V AC<br>160 W   48 V DC constant voltage                                                           | 72-90-63   | 0 0 5 - 6 5 2 0 2 1 0 |
| LED DRIVER DALI-2 DT6 1–2 addr.<br>200–1050 mA settable const. current<br>2 × 42 W   48 V DC   U <sub>OUT</sub> 10–40 V | 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 %



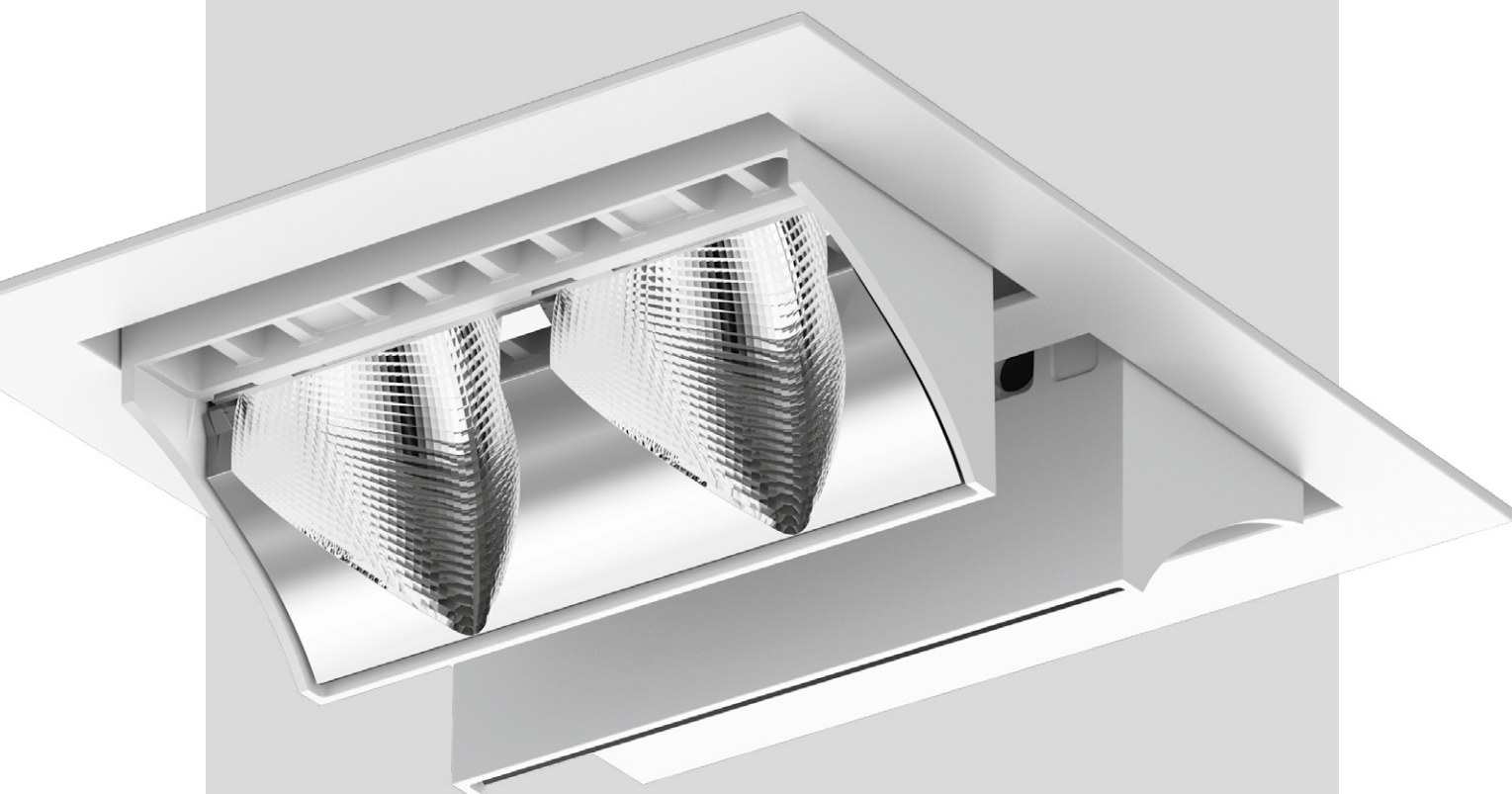
**Private Residence**  
Visualisation







# 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 %.

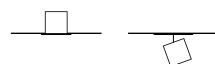
**IT** SQUADRO è un faretto da binario e da incasso, in versione bilampada monolaterale o bilaterale, pensato in particolare per il retail in quanto riunisce in un unico apparecchio i sei principali requisiti che occorrono ai negozi. I prodotti esposti ricavano una presentazione brillante grazie ai riflettori di forma libera con ottiche sfaccettate: questi dirigono la luce in modo preciso ed estremamente mirato verso gli scaffali o le zone delle corsie. La luce diretta modella i prodotti creando una scenografia attraente. I moduli luminosi orientabili illuminano selettivamente i ripiani degli scaffali o i cartelloni pubblicitari, garantendo anche luce di sfondo a sufficienza. I faretti SQUADRO sono completamente schermati in senso longitudinale e trasversale, eppure vantano un'alta efficienza energetica con un rendimento superiore al 90 %.

## Types



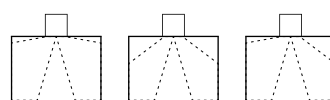
single-sided 1×2    double-sided 2×2    single-sided 1×2    double-sided 2×2

## Mountings



recessed    track

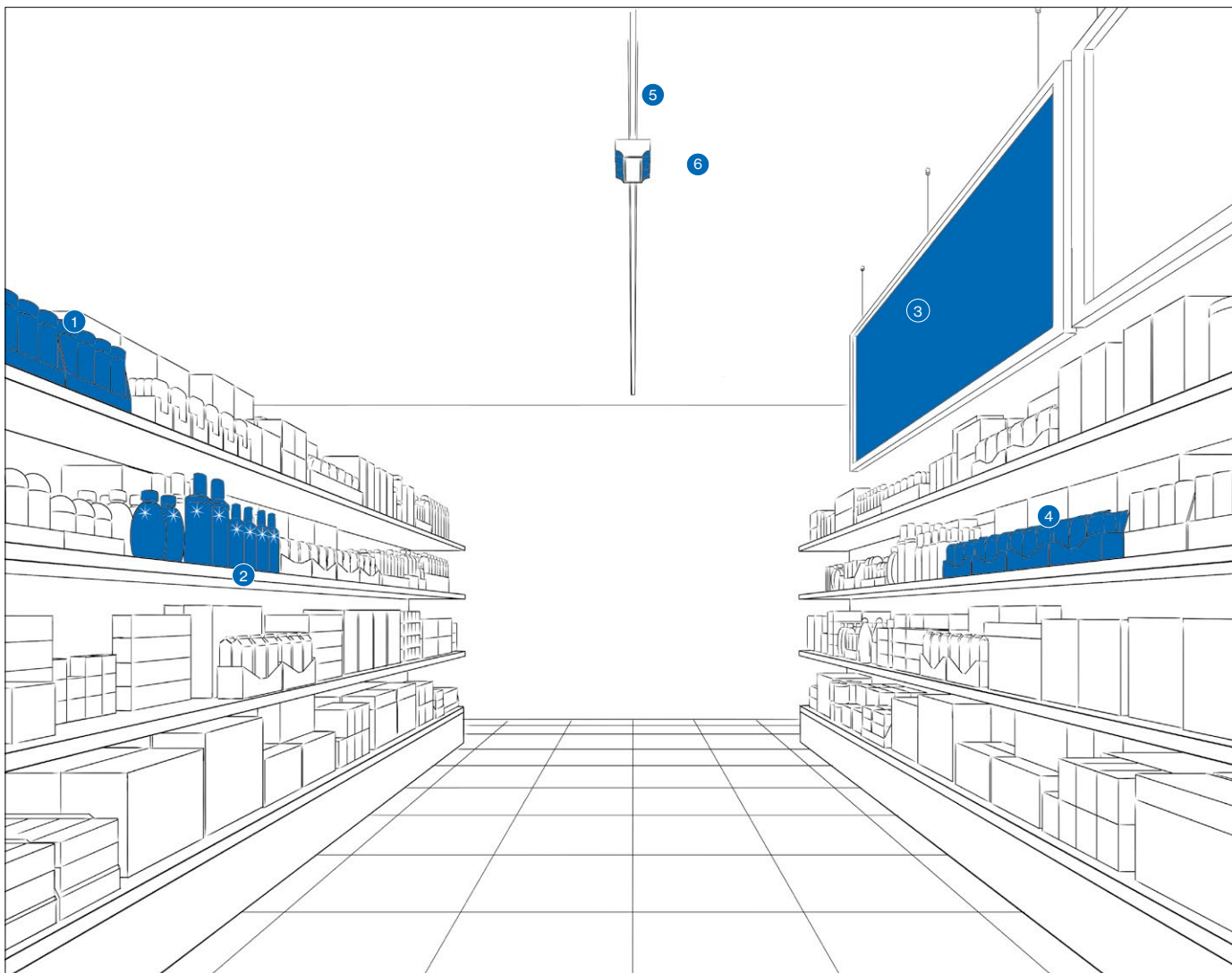
## Light distributions



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.

**IT** SQUADRO combina in un corpo illuminante unico tutti i pregi delle soluzioni classiche per il retail. Il prodotto offre un'illuminazione antiabbagliante in senso sia trasversale che longitudinale, proiettando la luce con un fascio preciso sui prodotti esposti e risaltando altezza e profondità degli scaffali. Ne risulta una presentazione di efficacia assoluta. La distribuzione fotometrica è tale da non richiedere corpi illuminanti integrativi per l'illuminazione generale.

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

**IT** L'illuminamento massimo si concentra sui due piani di presentazione più in alto.

**2** **EN** Highlights on premium goods create a brilliant staging.

**IT** I punti luce presentano i prodotti esposti in maniera scenica e accattivante.

**3** **EN** Directed light creates accents on billboards and subjects.

**IT** La luce direzionata crea accenti su insegne pubblicitarie e punti di attrazione.

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

**IT** Il forte effetto in profondità mette in risalto colori e peculiarità dei generi alimentari.

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

**IT** Grazie al controllo dell'abbagliamento in senso longitudinale la clientela ha una percezione discreta dell'illuminazione delle corsie.

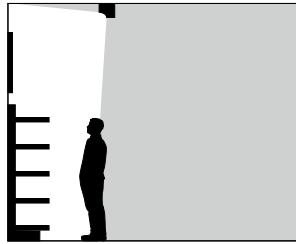
**6** **EN** Transverse glare control additionally prevents glare from any viewing direction.

**IT** L'aggiunta di una schermatura trasversale esclude l'abbagliamento in ogni direzione dello sguardo.

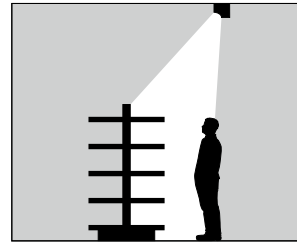
## Five versions

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.

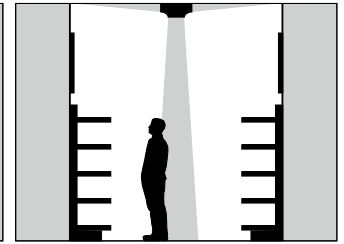
IT SQUADRO si adatta ai differenti layout dei negozi con cinque varianti di emissione. Per mettere in luce i prodotti esposti, contenendo il più possibile il numero di corpi illuminanti, ciò che conta è che siano orientati perfettamente. SQUADRO sa adeguarsi alle varie geometrie con un'illuminazione precisa e senza dispersioni. Il risultato è che tutti i prodotti vengono messi in scena con efficacia, a prescindere dalle dimensioni o dall'architettura del negozio.



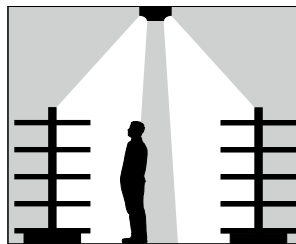
Wall Floor (single-side)



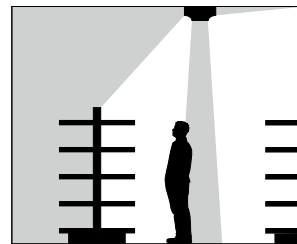
Shelf Floor (single-side)



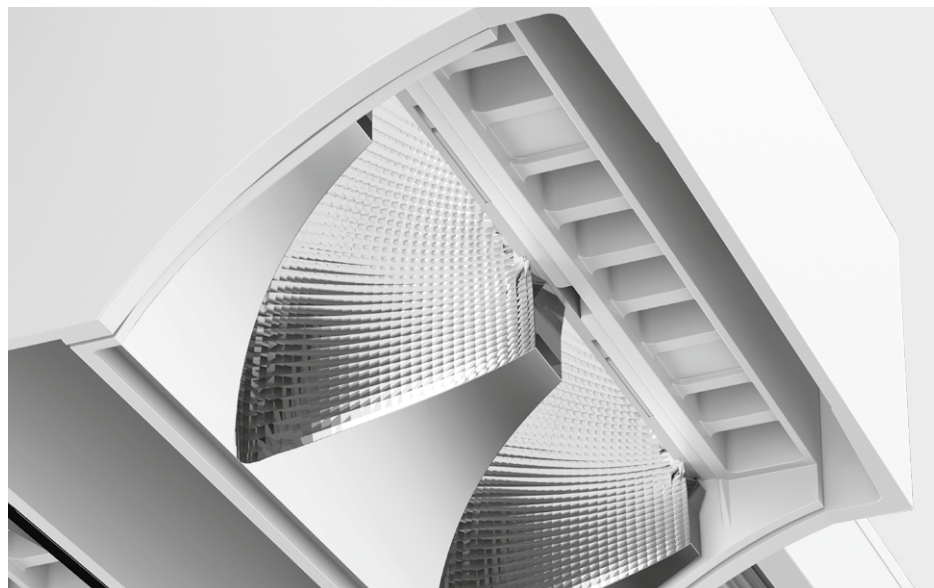
Wall Floor (double-side)



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.

IT La luce viene guidata con precisione da riflettori speciali graduati ed ogni modello SQUADRO supera il 90 per cento di rendimento. La curvatura e la tecnologia dei riflettori secondari ottimizzano la schermatura.

## 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  $-15^\circ$  to  $+20^\circ$ . Each module can be tilted asymmetrically, allowing precise alignment and thus optimum light control.

IT Accade spesso che i negozi di una stessa catena commerciale presentino architetture differenti. Le altezze degli scaffali e le larghezze delle corsie possono variare anche di molto. Soluzione: moduli luminosi orientabili. Sono elementi che si inclinano da  $-15^\circ$  a  $+20^\circ$ . Ogni modulo può essere fissato in posizione asimmetrica, in modo da rimanere orientato con precisione e guidando la luce perfettamente.





## SQUADRO wallwasher

recessed

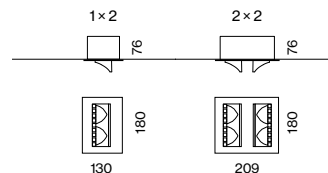
**EN** Recessed ceiling spotlight in die cast aluminium in two different types (2 lamps or 2×2 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); with trim; surface powder coated; installation without tools using snap spring closure; aisle spotlight with special, 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

**IT** Faretto da incasso in soffitto in pressofusione di alluminio in 2 varianti (2 o 2×2 punti luce) e con 2 diversi moduli d'illuminazione (per shelf floor washer e wall floor washer); con bordo perimetrale; verniciatura a polvere; montaggio senza utensili con chiusura a molla a scatto; Faretto per corridoi con riflettori multipli in tecnologia speciale di forma amorfa, con ottica sfaccettata per luce direzionata con la massima precisione; illuminazione di precisione di scaffali e corridoi, ottima schermatura longitudinale per il massimo comfort visivo nei corridoi, moduli luce regolabili; tecnologia COB (Chip on Board) per la massima efficienza; LED efficienti con alta resa cromatica; vetro protettivo IP40 disponibile come accessorio

### Quickinfo

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

### Types



### Colours



### Light distributions



shelf floor wall floor shelf wall floor



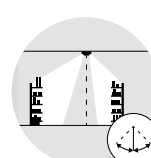
DiiA® standards  
251, 252, 253



up to 134lm/W  
(high efficiency)



glare-free reflector  
longitudinally &  
transversely



+20° up to -10°  
tiltable

## Order options

### COLOUR TEMPERATURE

|        |   |
|--------|---|
| 3000 K | 0 |
| 4000 K | 1 |

### CONTROL

|         |   |
|---------|---|
| non DIM | 1 |
| DALI-2  | 3 |

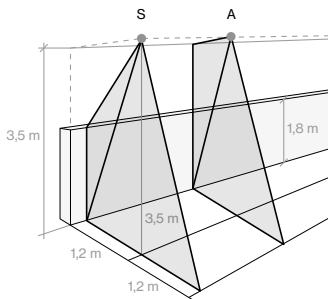
### MATERIAL COLOUR

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

### REFLECTOR

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

\*only for 2×2 lamps

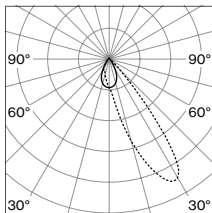


## Options on request

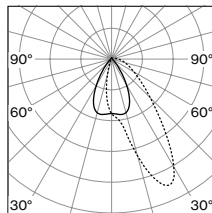
### COLOUR RENDERING INDEX

CRI ≥ 80

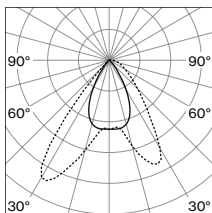
## Light distributions



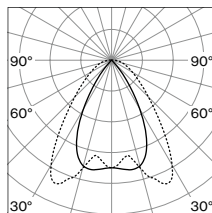
1×2 lamps  
shelf floor washer



1×2 lamps  
wall floor washer



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



2×2 lamps  
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 |

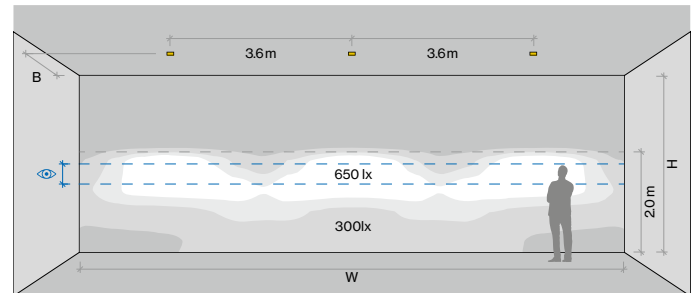
## Optical accessories

### IP 40 PROTECTION GLASS

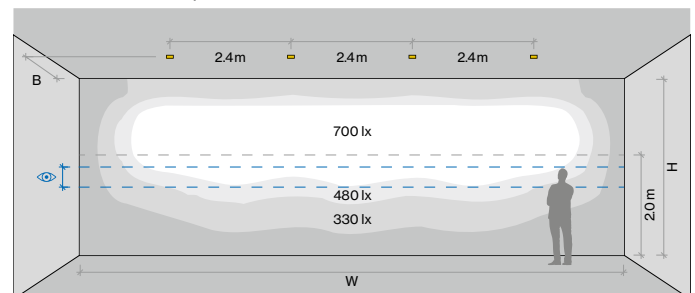
| TYPE                     | ORDER CODE            |
|--------------------------|-----------------------|
| 1×2 lamps / single-sided | 0 4 9 - 2 9 1 0 0 1 0 |
| 2×2 lamps / double-sided | 0 4 9 - 2 9 2 0 0 1 0 |

## 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

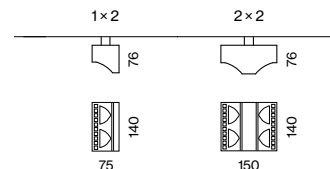
**EN** Track light in die cast aluminium in two different types (2 lamps or 2×2 lamps) and with 2 types of light modules (for shelf floor washer and wall floor washer); surface powder coated; aisle spotlight with special, multi-free-form, facet effect surface reflectors for high precision light control; 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

**IT** Faretto da binario elettrificato in pressofusione di alluminio in 2 varianti (2 o 2×2 punti luce) e con 2 diversi moduli d'illuminazione (per shelf floor washer e wall floor washer); verniciatura a polvere; Faretto per corridoi con riflettori multipli in tecnologia speciale di forma amorfa, con ottica sfaccettata per luce direzionata con la massima precisione; illuminazione di precisione di scaffali e corridoi, ottima schermatura longitudinale per il massimo comfort visivo nei corridoi, moduli luce regolabili; tecnologia COB per la massima efficienza; LED efficienti con alta resa cromatica; vetro protettivo IP40 disponibile come accessorio; incluso accessorio per il posizionamento in linea del corpo illuminante

### Quickinfo

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

### Types



### Colours



### Light distributions



shelf floor wall floor shelf wall floor



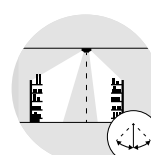
DiiA® standards  
251, 252, 253



up to 134lm/W  
(high efficiency)



glare-free reflector  
longitudinally &  
transversely



+20° up to -10°  
tiltable



## Order options

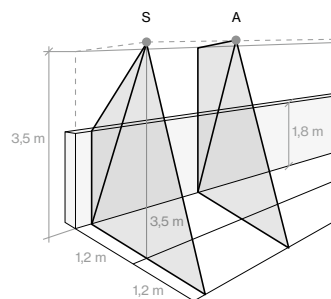
| COLOUR TEMPERATURE |   |
|--------------------|---|
| 3000K              | 0 |
| 4000K              | 1 |

| 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

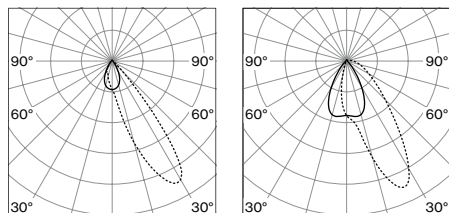


## Options on request

| COLOUR RENDERING INDEX |  |
|------------------------|--|
| CRI ≥ 80               |  |

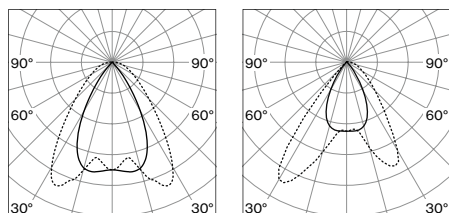
| CONTROL            |  |
|--------------------|--|
| DALI-2 (2×2 lamps) |  |

## Light distributions



1×2 lamps  
shelf floor washer

1×2 lamps  
wall floor washer



2×2 lamps  
wall floor washer

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

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

## SQUADRO wallwasher track



### 1×2 LAMPS SINGLE-SIDED

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



### 2×2 LAMPS DOUBLE-SIDED

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

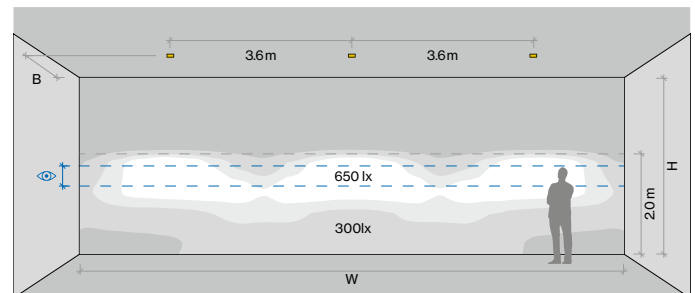
## Optical accessories

### IP 40 PROTECTION GLASS

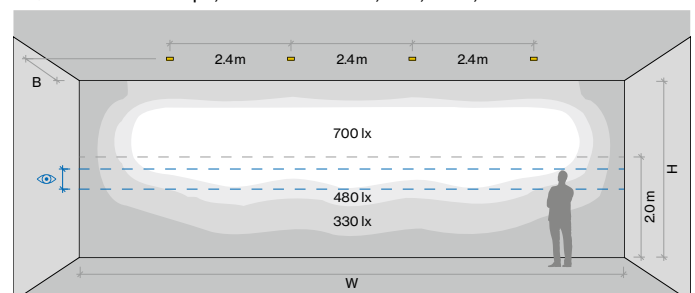
| TYPE                   | ORDER CODE            |
|------------------------|-----------------------|
| 1×2 lamps/single-sided | 0 4 9 - 2 9 1 0 0 1 0 |
| 2×2 lamps/double-sided | 0 4 9 - 2 9 2 0 0 1 0 |

## 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 |



**Jelmoli Store**  
Zurich, CH



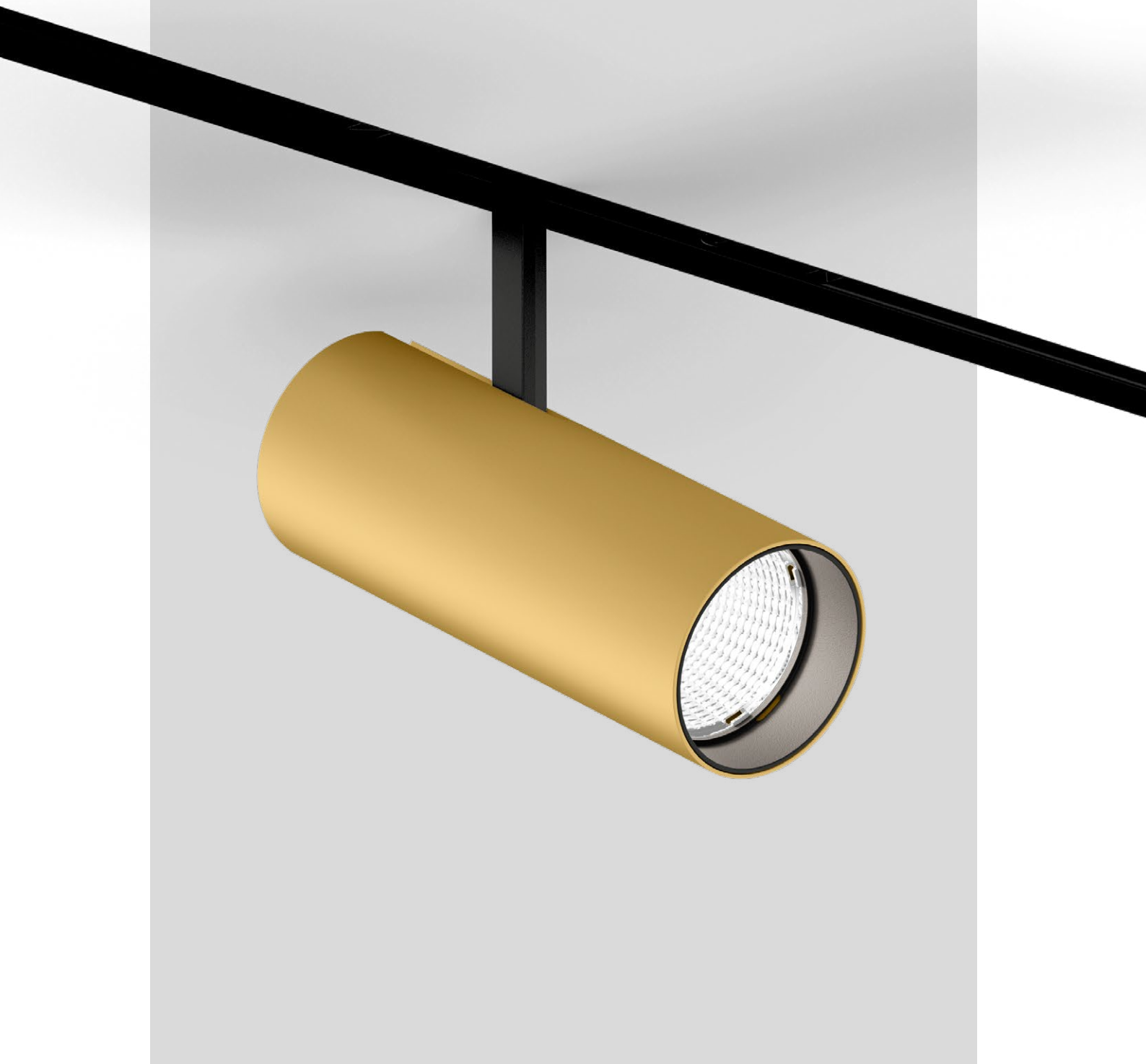


**Oasis Store** Melbourne, AU –  
by Sync Design





# In the spotlight

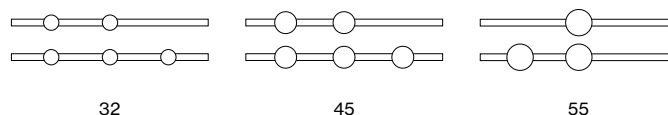


## BO intrack

**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  $\text{CRI} \geq 95$  (2-SDCM).

**IT** Elegante e flessibile: è questa la prerogativa della serie di faretto da binario BO. Le diverse misure e angoli di emissione lasciano grande libertà compositiva. Le versioni Intrack sono costruite con uno, due o tre punti luce. Inoltre gli spot si ruotano e orientano in diverse angolazioni, rendendo BO la soluzione ideale per negozi e aree espositive. Per un'ulteriore flessibilità architettonica sono previste finiture di vari colori e diverse tonalità di luce (2700 K, 3000 K o 4000 K). La resa cromatica è ottima, fino a  $\text{CRI} \geq 95$  (2-SDCM).

### Types

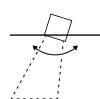


### Mounting



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.

**IT** Eleganza ben dosata: tutti i faretti della linea di prodotti BO vantano un'estetica tanto decorativa quanto semplice. Il design ridotto e le proporzioni calibrate con esattezza permettono di combinare reciprocamente tutti i modelli BO.



## 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](http://xal.com/colours).

**IT** I faretti BO sono disponibili nei colori bianco e nero come standard. Se occorre adattarli a un progetto individuale potete scegliere anche altre finiture. Per scoprire di più sulla nostra gamma di colori consultate [xal.com/colours](http://xal.com/colours).

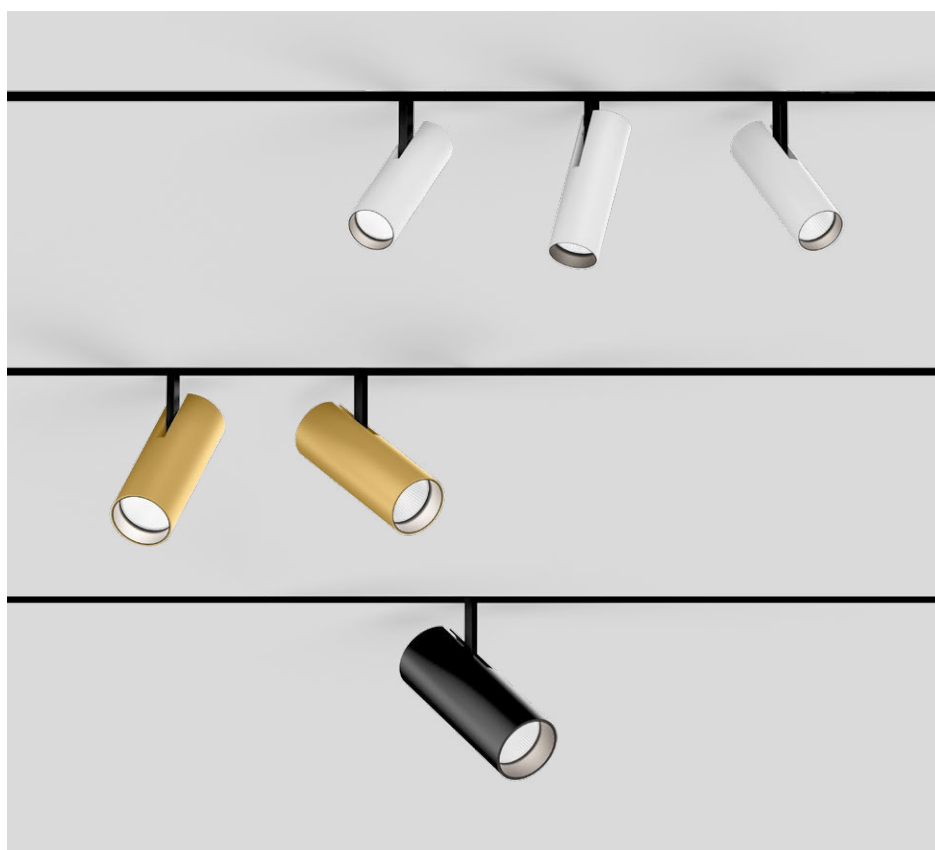


[xal.com/colours](http://xal.com/colours)

## 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.

**IT** Le versioni BO Intrack sono disponibili con uno, due o tre punti luce. Le testate in tre diametri, finiture di vari colori e diverse tonalità di luce (2700 K, 3000 K o 4000 K) offrono ulteriore flessibilità per un progetto personalizzato. La variante multilampada dell'insetto richiede un solo alimentatore, con il risultato che i singoli faretti rimangono più avvicinati. Di conseguenza questi modelli risultano non solo poco ingombranti ma anche più efficienti in termini di costi.



## 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.

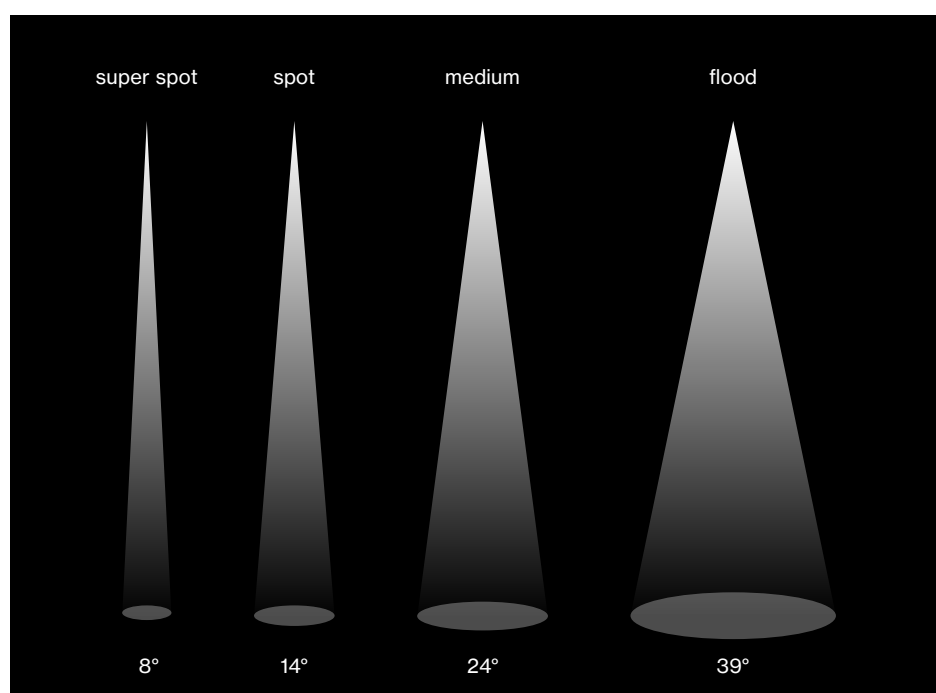
**IT** Regolazione flessibile, montaggio semplice: BO in variante Track unisce misure e angoli di emissione differenti. In questo modo si compongono scenari di luce sempre nuovi: dalle presentazioni puntiformi di prodotti e oggetti alle scenografie di opere d'arte o complementi d'arredo. Il converter sparisce elegantemente nel binario.



## Flexible adjustment

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

**IT** BO sa adattarsi al contesto in modo da mettere in scena gli oggetti valorizzandoli al meglio. Il faretto è previsto con diversi angoli di emissione, inoltre si ruota di minimo 360° e si orienta di 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

**IT** Faretto da binario elettrificato in alluminio pressofuso; verniciatura a polvere; testata ruotabile di 360° e orientabile di 90°; con una, due o tre luci a scelta; convertitore nell'adattatore; a scelta con ottica lenticolare di precisione; oppure riflettore d'alta qualità con ottica sfaccettata in alluminio applicato a vapore; curva fotometrica precisa con diversi angoli di emissione; ottima schermatura con superficie di emissione arretrata; unità ottiche come accessori; tecnologia COB (Chip on Board) o LED high power - massima efficienza; assenza di ombre multiple; LED a risp. energ. - ottima resa cromatica; adattatore per installazione senza utensili o scorrimento in vari binari trifase; adattatore a filo con i binari elettrificati

### 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

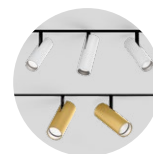
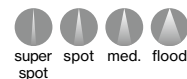
### Types

| BO 32                                                                               | BO 45                                                                               | BO 55                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| 100<br>ø 32                                                                         | 120<br>ø 45                                                                         | 140<br>ø 55                                                                         |

### Colours



### Light distributions



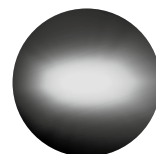
only one adapter  
with 2 or 3 lamps



360° rotatable  
90° tiltable



glare control via  
honeycomb louver



oval lens for oval  
light illumination



CRI ≥ 95  
2 SDCM

## Order options

### COLOUR TEMPERATURE

|        |   |
|--------|---|
| 2700 K | 4 |
| 3000 K | 5 |
| 4000 K | 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

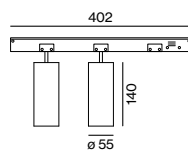
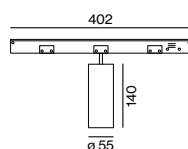
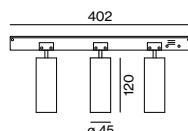
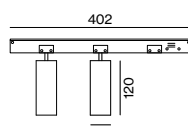
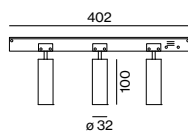
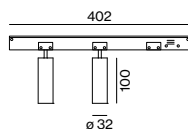
|            |   |
|------------|---|
| spot 17°   | S |
| medium 23° | M |
| flood 37°  | F |

## Options on request

### COLOUR RENDERING INDEX

CRI ≥ 95, 2 SDCM

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



## BO 32 intrack



### TRACK LIGHT

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

## BO 45 intrack



### TRACK LIGHT

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

## BO 55 intrack



### TRACK LIGHT

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

## 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









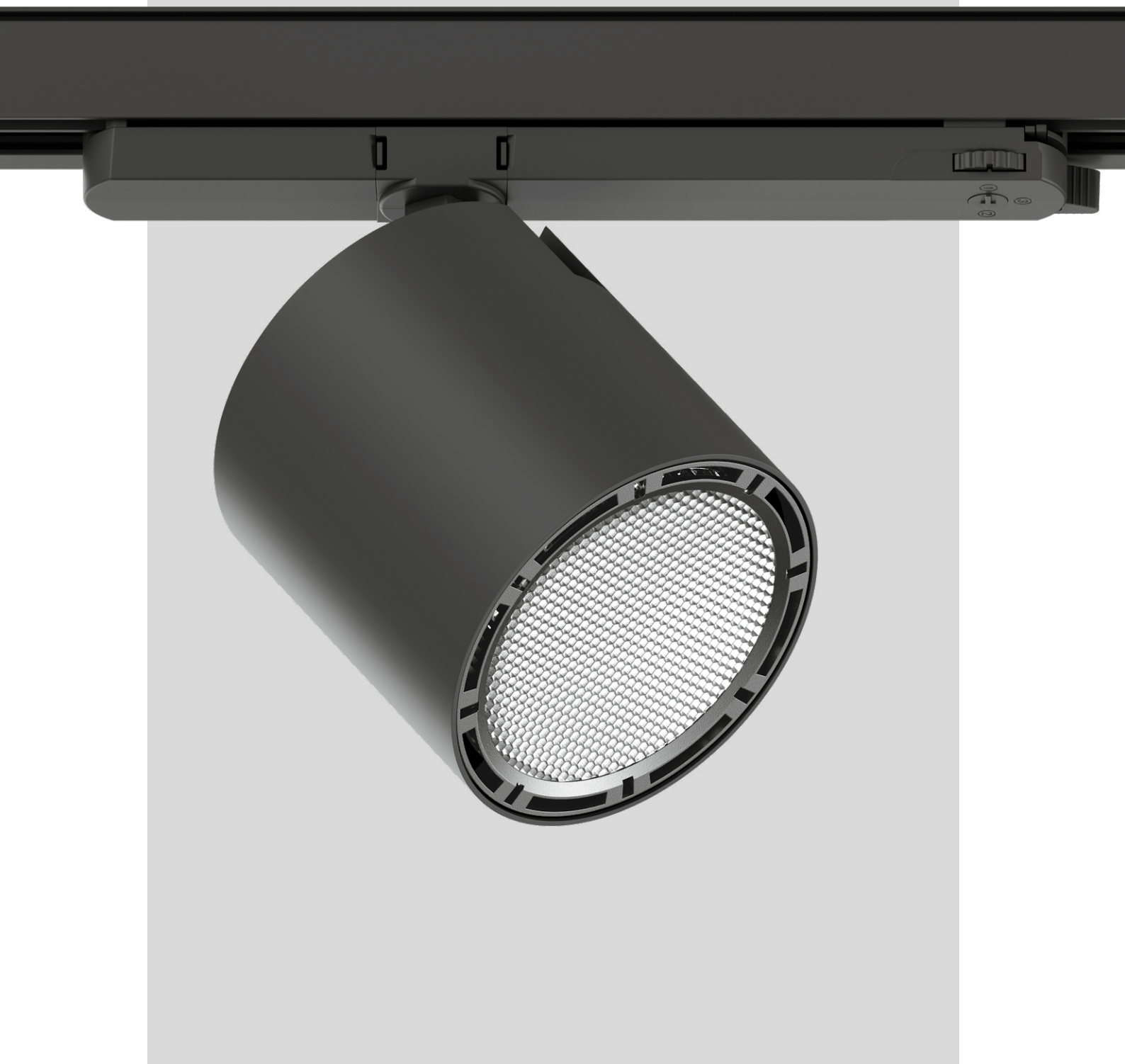


**Oberpollinger | The KaDeWe Group**  
Munich, DE – by Licht Kunst Licht AG  
including lighting design





# Universal expert



# VARO

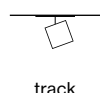
**EN** As a track-mounted spotlight, VARO focuses on the essentials and can be used universally. It is available in two different sizes and, thanks to its 355° rotation and 90° swivelling capability, is extremely flexible in use. This flexibility is supported by the fact that the spotlights can be inserted 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  $\text{CRI} \geq 90$ . Depending on the desired spatial effect, you can choose between the 3000 K and 4000 K light colours.

**IT** Il faretto per binari elettrificati VARO si concentra sull'essenziale e si utilizza universalmente. È previsto in due misure, si ruota di 355° e si inclina di 90°. Anche il tipo di montaggio assicura grande flessibilità: il faretto si inserisce nel binario elettrificato e si sposta nel modo preferito senza bisogno di utensili. Pertanto si tratta di una soluzione ideale soprattutto nei negozi, dove gli allestimenti cambiano di continuo. Inoltre il faretto vanta la massima efficienza nell'illuminazione di oggetti esposti. VARO possiede un riflettore di qualità che distribuisce la luce con precisione a diverse angolature. Inoltre possiede l'ottimo indice di resa cromatica  $\text{CRI} \geq 90$ . A seconda dell'atmosfera richiesta, potete scegliere la temperatura di colore 3000 K o 4000 K.

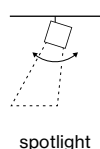
## Types



## Mounting



## Light distribution

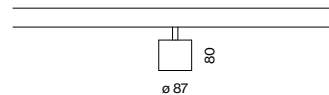




### Quickinfo

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

### Type



### Colours



### Light distributions



## 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 > 120 lm/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

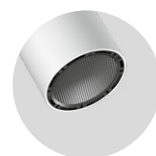
**IT** Faretto da binario elettrificato in alluminio pressofuso; verniciatura a polvere; testata girevole 355° e orient. 90°; converter integrato nell'adattatore in plastica; riflettore di alta qualità con ottica a sfaccettature sferiche; curva fotometrica precisa con diversi angoli di emissione; montaggio e smontaggio senza utensili; unità ottiche come accessori; accessori ottici combinabili tra loro; con tecnologia COB (Chip on Board) per la massima efficienza; disponibili varianti con > 120 lm/W; assenza di ombre multiple; LED ad efficienza energetica con elevata resa cromatica; adattatore per installazione senza utensili o scorrimento in vari binari trifase



up to 129 lm/W  
(high efficiency)



355° rotatable  
90° tiltable



optical  
accessories



combine 2 optical  
accessories



## Order options

| COLOUR TEMPERATURE |   |
|--------------------|---|
| 3000K              | 0 |
| 4000K              | 1 |

| CONTROL |   |
|---------|---|
| non DIM | 1 |
| DALI-2  | 3 |

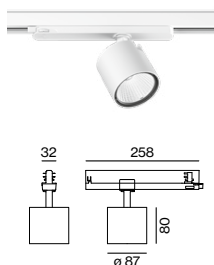
| MATERIAL COLOUR          |   |
|--------------------------|---|
| ○ traffic white RAL 9016 | 7 |
| ● jet black RAL 9005     | 8 |

| 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        | 180-6420::1▲▲ |
| 45W          | 3610lm        | 180-6421::1▲▲ |

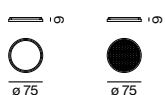
### HIGH EFFICIENCY

| SYSTEM POWER | LUMINOUS FLUX | ORDER CODE    |
|--------------|---------------|---------------|
| 21.3W        | 2730lm        | 180-6422::1▲▲ |
| 25.4W        | 3160lm        | 180-6423::1▲▲ |

## Optical accessories

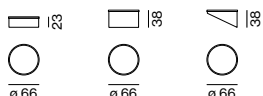
### LENSES AND HONEYCOUMB LOUVER

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



### SNOOT

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



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

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











## VARO 110 S

track

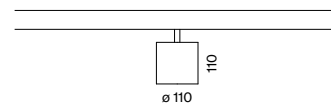
**EN** Track light made of die-cast aluminium; surface powder coated; spotlight head 355° rotatable and 90° tiltable; integrated converter in the plastic adapter; high quality reflector with spherical facet finish; precise radiation characteristics with different beam angles; installed and exchanged without tools; optical attachments as accessories; optical attachments can be combined; COB (Chip on Board) technology for maximum efficiency; variants with > 120 lm/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

**IT** Faretto da binario elettrificato in alluminio pressofuso; verniciatura a polvere; testata girevole 355° e orient. 90°; converter integrato nell'adattatore in plastica; riflettore di alta qualità con ottica a sfaccettature sferiche; curva fotometrica precisa con diversi angoli di emissione; montaggio e smontaggio senza utensili; unità ottiche come accessori; accessori ottici combinabili tra loro; con tecnologia COB (Chip on Board) per la massima efficienza; disponibili varianti con > 120 lm/W; assenza di ombre multiple; LED ad efficienza energetica con elevata resa cromatica; adattatore per installazione senza utensili o scorrimento in vari binari trifase

### Quickinfo

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

### Type



### Colours



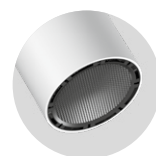
### Light distributions



up to 132lm/W  
(high efficiency)



355° rotatable  
90° tiltable



optical  
accessories



combine 2 optical  
accessories

## Order options

| COLOUR TEMPERATURE |   |
|--------------------|---|
| 3000K              | 0 |
| 4000K              | 1 |

| CONTROL |   |
|---------|---|
| non DIM | 1 |
| DALI-2  | 3 |

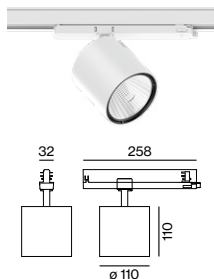
| MATERIAL COLOUR          |   |
|--------------------------|---|
| ○ traffic white RAL 9016 | 7 |
| ● jet black RAL 9005     | 8 |

| 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        | 180-6520 1 1 1 |
| 39 W         | 4300lm        | 180-6521 1 1 1 |

### HIGH EFFICIENCY

| SYSTEM POWER | LUMINOUS FLUX | ORDER CODE     |
|--------------|---------------|----------------|
| 25.7 W       | 3400lm        | 180-6530 1 1 1 |
| 36 W         | 4520lm        | 180-6531 1 1 1 |

## Optical accessories

### LENSES AND HONEYCOUMB LOUVER

| TYPE             | Ø-H (mm) | ORDER CODE   |
|------------------|----------|--------------|
| oval lens        | 106-9    | 080-6502210  |
| wide flood lens  | 106-9    | 080-6502110W |
| honeycomb louver | 106-9    | 080-6501118  |

### SNOOT

| TYPE   | Ø-H (mm) | ORDER CODE  |
|--------|----------|-------------|
| short  | 97-23    | 080-6503118 |
| medium | 97-38    | 080-6503218 |
| angle  | 97-38    | 080-6503318 |



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

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

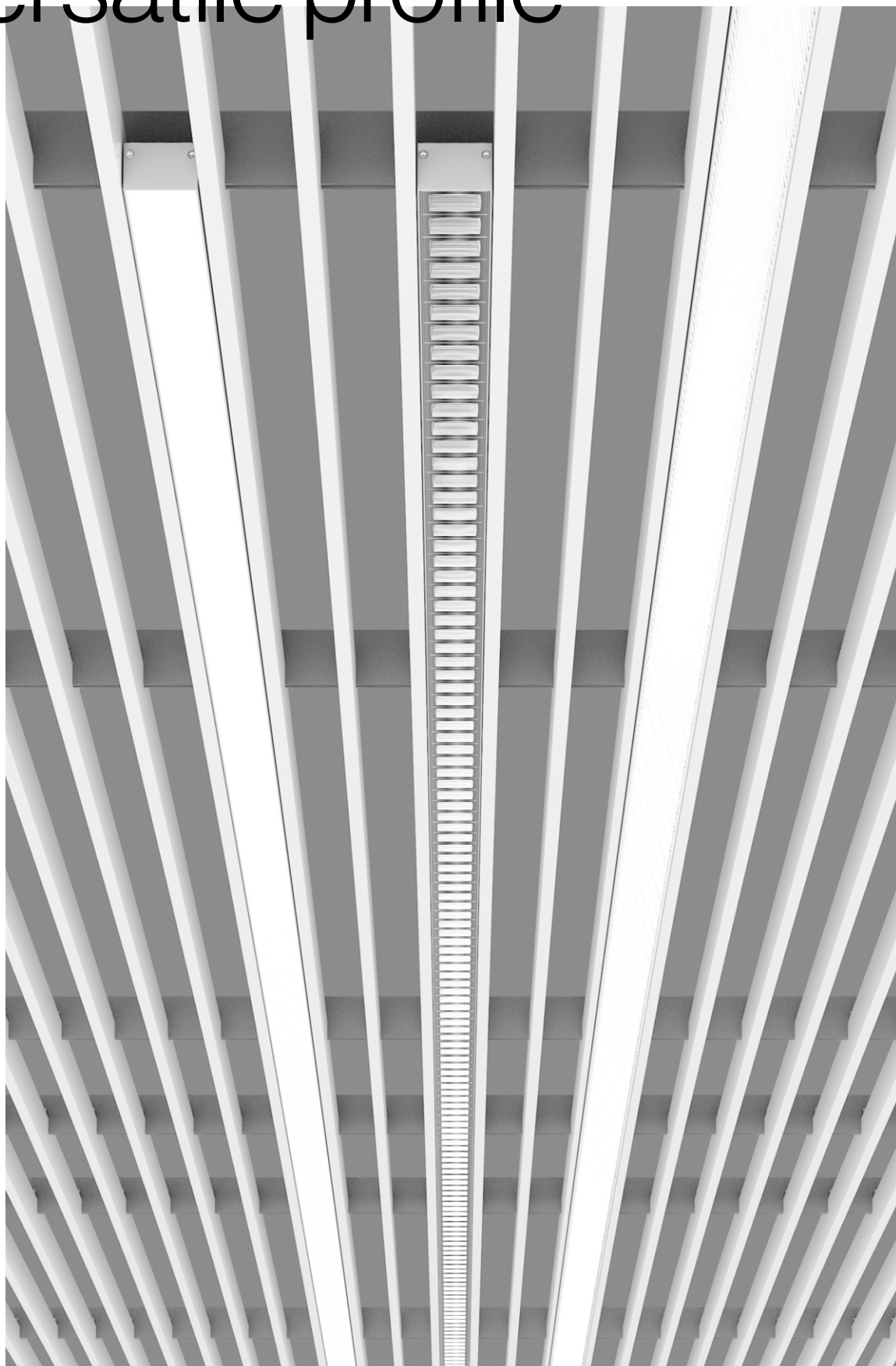








# Versatile profile



## 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.

**IT** L'apparecchio in sistema MILA è concepito appositamente per i soffitti a doghe e si integra con armonia in ambienti come sale d'ingresso e uffici. Nelle sale riunioni e negli uffici, quest'apparecchio diffonde una luce ideale per lavorare al computer grazie all'aggiunta opzionale di riflettori. La variante di MILA con rifrattore opale si presta invece a un'illuminazione omogenea dell'ambiente; in alternativa si può scegliere un rifrattore a microprismi che riduce l'abbagliamento. Dove si montano sistemi ininterrotti, la scelta migliore è la flessibile Continuous Cover. Con l'aggiunta di opportuni sensori, l'apparecchio MILA diventa un sistema di illuminazione intelligente. I sensori possono essere collocati liberamente nel controsoffitto a doghe e integrati senza fatica anche in un secondo momento. I dati raccolti sull'utilizzo degli ambienti aiutano a risparmiare energia a lungo termine.

### Type



38

### Mounting



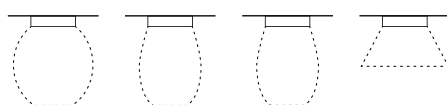
ceiling

### Configuration



linear

### Light distributions



opal

micro-  
prismatic

reflector  
(UGR ≤ 19)

direct





## Advanced sensor technology

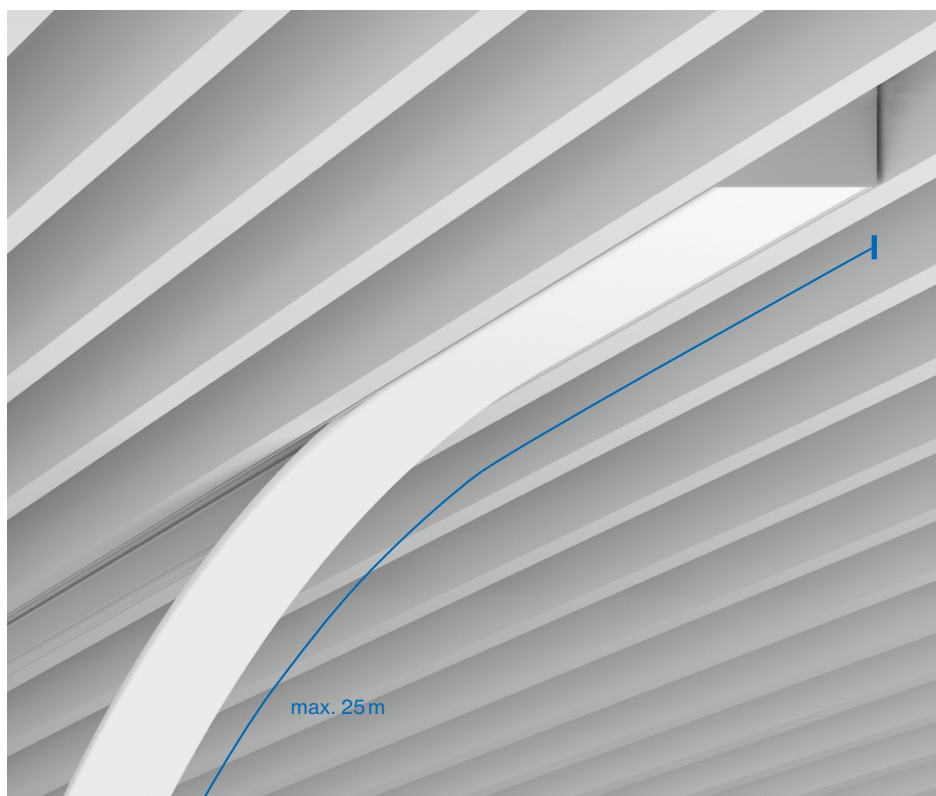
EN By adding special sensors, the MILA system luminaire becomes a smart lighting system. The sensors can be placed freely and flexibly in the slatted ceiling, and can also be integrated quickly and easily at a later stage. With the ESSENTIAL sensor, the lighting dynamically adapts to the ambient brightness 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.

IT Con l'aggiunta di opportuni sensori, l'apparecchio MILA diventa un sistema di illuminazione intelligente. I sensori possono essere collocati liberamente nel controsoffitto a doghe e integrati senza fatica anche in un secondo momento. Il sensore ESSENTIAL consente la regolazione dinamica dell'illuminazione in base alla luminosità circostante e all'attività svolta. La variante SENSE misura anche valori quali temperatura, qualità dell'aria, umidità e livello di rumore. Questi dati non solo forniscono importanti indicazioni sulle condizioni e sull'utilizzo degli ambienti, ma favoriscono anche il risparmio energetico a lungo termine.

## 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.

IT Per gli apparecchi MILA in versione Continuous sono disponibili sia i rifrattori opali che quelli a microprismi. Ne deriva una particolare flessibilità, in quanto la lunghezza della copertura può essere adattata esattamente al sistema. Durante il montaggio basta integrare nel profilo la Continuous Cover, evitando così giunzioni di disturbo e creando un sistema di illuminazione piacevolmente continuo.



## Inset variety

<sup>EN</sup> 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  $UGR \leq 19$  glare-reduced reflectors are the right choice. The optionally available opal cover is suitable for homogeneous ambient illumination. The microprismatics with reduced glare value are ideal for pleasantly illuminating entrance areas and corridors.

<sup>IT</sup> Che si tratti di illuminare postazioni di lavoro o aree generiche di edifici, l'apparecchio MILA sa adattarsi alla destinazione. Per il lavoro al computer sono previsti riflettori con schermatura  $UGR \leq 19$ . Il rifrattore opale in opzione si presta invece a un'illuminazione generale omogenea. La variante a microprismi con abbagliamento ridotto risulta ideale per illuminare piacevolmente aree di ingresso e corridoi.



**MILA reflector**



**MILA opal**

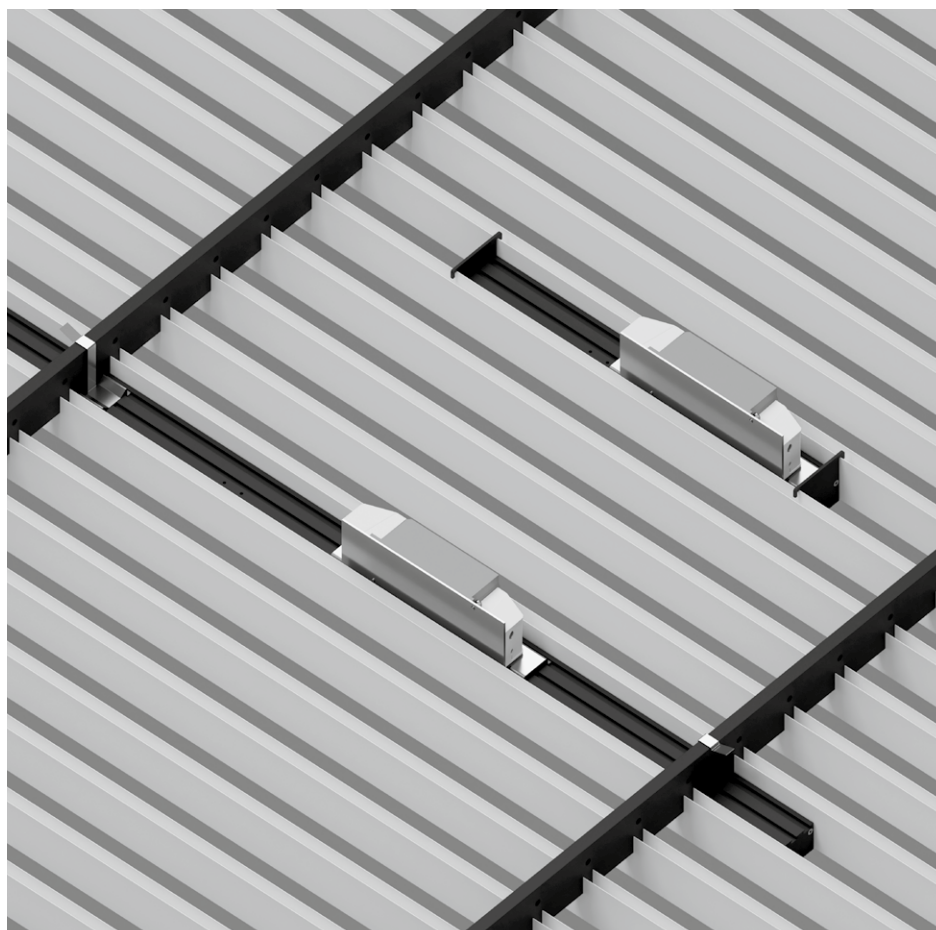


**MILA microprismatic**

## Mounting

<sup>EN</sup> 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.

<sup>IT</sup> MILA è in grado di fornire la giusta illuminazione in ogni ambiente grazie a robuste staffe di montaggio che si agganciano al soffitto a doghe. Queste staffe si spostano con flessibilità lungo l'apparecchio e possono quindi essere posizionate secondo necessità oppure regolate successivamente. I converter con funzione wiring-through facilitano l'installazione elettrica in quanto il cablaggio si fa passare con rapidità da un apparecchio all'altro. Inoltre il libero posizionamento del converter consente una risposta flessibile alle condizioni del soffitto.





**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 louver ceiling system; surface powder coated; HPO (High Performance Opal) cover or microprismatic 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

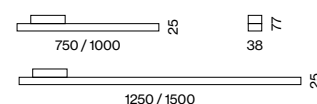
**IT** Corpo illuminante in profilo di alluminio estruso, modello squadrato; per sistemi di file continue; adatto per il montaggio nel sistema a soffitto a lamelle HAUFE; verniciatura a polvere; cover HPO (High Performance Opal) o cover microprismatica della lunghezza dell'insero luminoso oppure cover continua (entrambe da ordinare separatamente); in opzione riflettore ad alta lucentezza con design sfaccettato; convertitore posizionabile in modo flessibile sul profilo dell'apparecchio; convertitore adatto al cablaggio passante; LED ad efficienza energetica con elevata resa cromatica; inserto luminoso con sensore (ESSENTIAL o SENSE) disponibile opzionalmente come accessorio

### Quickinfo

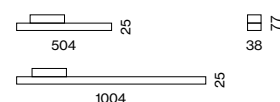
3000K, 4000K  
CRI  $\geq 90$ , 3 SDCM  
UGR  $\leq 19$  /  $65^\circ \leq 1500$  cd/m<sup>2</sup>  
up to 115 lm/W  
up to 103 lm/m  
L90 @ 50 000 h  
DALI-2  
opal, microprismatic  
reflector (UGR  $\leq 19$ )

### Types

opal / microprismatic



reflector



### Colours



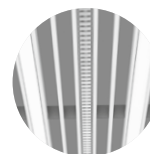
### Light distribution



DiiA® standards  
251, 252, 253



suitable for  
HAUFE ceilings



continuous  
lighting system



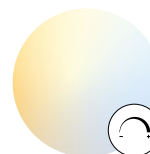
sensor for  
single mounting



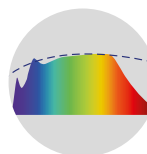
DIN EN 12464-1  
UGR  $\leq 19$



up to 115 lm/W  
(high efficiency)



tunable white  
2700–6500K



CRI  $\geq 98$   
XPECTRUM



## Order options

### COLOUR TEMPERATURE

|       |   |
|-------|---|
| 3000K | 0 |
| 4000K | 1 |

### CONTROL

|        |  |
|--------|--|
| DALI-2 |  |
|--------|--|

### MATERIAL COLOUR

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

### LIGHT OPTIC COVER

|                      |   |
|----------------------|---|
| opal                 | H |
| microprismatic       | Z |
| reflector (UGR ≤ 19) |   |

## Options on request

### COLOUR RENDERING INDEX

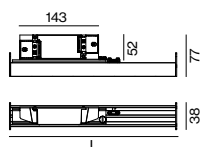
|                   |  |
|-------------------|--|
| CRI ≥ 98 XPECTRUM |  |
|-------------------|--|

### COLOUR TEMPERATURE

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

### SLAT CEILING SOLUTION

|                      |  |
|----------------------|--|
| Hunter Douglas       |  |
| Interalu SAPPceiling |  |



## MILA opal / microprismatic ceiling



|          |               |             |          |        |        |
|----------|---------------|-------------|----------|--------|--------|
| CRI ≥ 90 | RG0 IEC 62471 | DALI 1ADDR. | 220-240V | X-PERT | X-PERT |
|----------|---------------|-------------|----------|--------|--------|

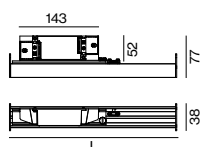
### SYSTEM LUMINAIRE

| 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              | 3000 K             | 21W/m        | 2200lm/m         | 105lm/W  |
|                   | 4000 K             |              | 2420lm/m         | 115lm/W  |
| microprismatic    | 3000 K             | 21W/m        | 2090lm/m         | 100lm/W  |
|                   | 4000 K             |              | 2300lm/m         | 110lm/W  |



## MILA reflector ceiling



|          |          |              |               |             |          |        |        |
|----------|----------|--------------|---------------|-------------|----------|--------|--------|
| CRI ≥ 90 | UGR ≤ 19 | cd/m² ≤ 1500 | RG0 IEC 62471 | DALI 1ADDR. | 220-240V | X-PERT | X-PERT |
|----------|----------|--------------|---------------|-------------|----------|--------|--------|

### 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         | 3000 K             | 22W/m        | 2790lm/m         | 126lm/W  |
| (UGR ≤ 19)        | 4000 K             |              | 2950lm/m         | 133lm/W  |

## Accessories

### END CAPS

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

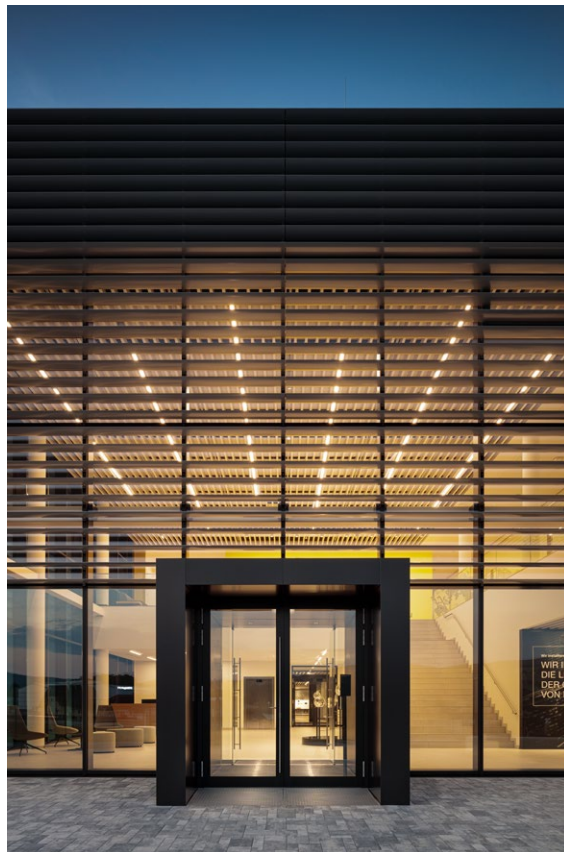
### LINEAR CONNECTOR

| 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 <sub>2</sub> ) | 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  $\text{CRI} \geq 98$  (XPECTRUM).

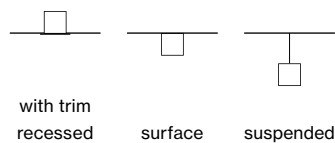
**IT** Con gli apparecchi in sistema FRAME 40 e MINO 40 non ci sono limiti a un'illuminazione basata su profili. Con gli appositi Flex-Inset, gli apparecchi possono essere accorciati sul posto e quindi adattati a tutti i contesti. I giunti angolari permettono di comporre linee continue ininterrotte. Per assicurare una luminosità particolarmente omogenea, i profili sono coperti da rifrattori opali. Sono previsti anche inserti come spot, da aggiungere per un'elegante illuminazione d'accento in corridoi o aree d'ingresso. Le tonalità di luce disponibili sono 3000 K, 4000 K oppure Tunable White, con una resa cromatica fino a  $\text{CRI} \geq 98$  (XPECTRUM).

### Type

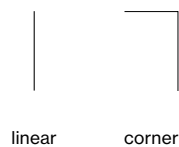


40

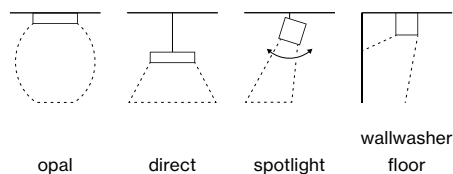
### Mountings

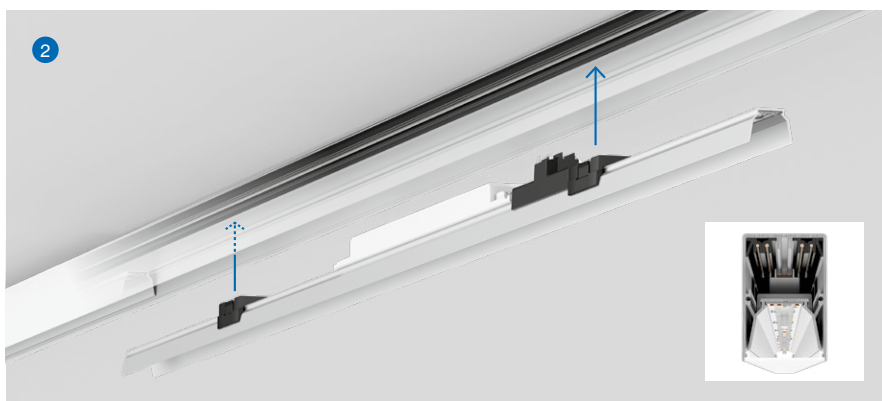
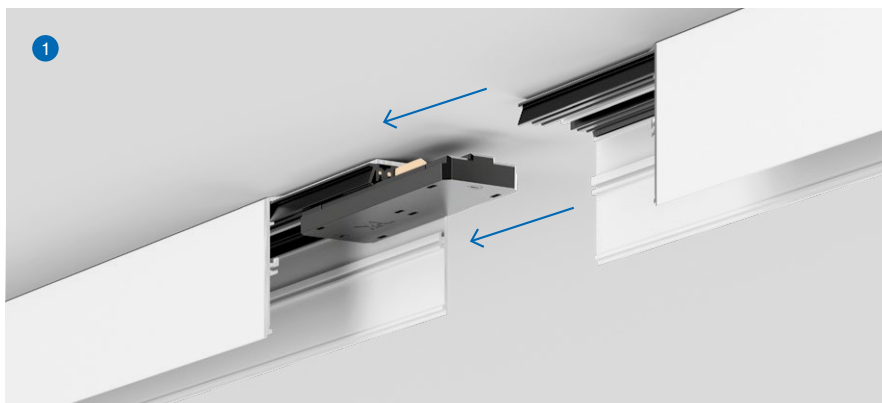


### Configurations



### Light distributions





## 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.

**IT** MINO 40 / FRAME 40 consistono in un profilo con elettrificazione integrata, quindi occorre un unico punto di alimentazione.

(1) Due profili si collegano reciprocamente con un semplice innesto elettrico e meccanico.

(2) Il sistema Snap-In, in attesa di brevetto, consente di inserire l'inserito nel profilo in modo rapido e semplice. Questo semplifica il montaggio e la manutenzione del sistema.

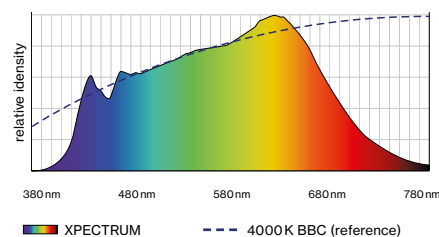
(3) La flessibile Continuous Cover si adatta esattamente alla lunghezza della linea e si incassa facilmente nel profilo in fase di montaggio. In questo modo si ottiene un sistema di illuminazione continuo senza giunzioni di disturbo.

## Full-spectrum LED

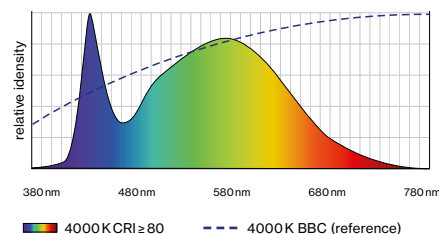
**EN** XAL's new XPECTRUM LEDs deliver healthy, biologically effective light. The reduced blue light component and increased cyan values reduce the blue light hazard for the eye to daylight-equivalent levels. The resulting non-visual, so-called melanopic light effect, improves concentration and increases sleep quality. The excellent colour rendering of IES TM 30-15  $R_f = 98$  and  $R_g = 101$  further helps visual comfort.

**IT** Il nuovo LED XPECTRUM di XAL assicura una luce sana e biologicamente efficace. La ridotta componente di luce blu e l'aumento dei valori del ciano riducono al minimo il pericolo di luce azzurra per gli occhi, portandola a un livello simile a quello della luce diurna. L'effetto luminoso non visivo, detto anche melanopico, favorisce la concentrazione e migliora la qualità del sonno. L'eccellente resa cromatica IES TM 30-15  $R_f = 98$  e  $R_g = 101$  contribuisce anche a migliorare il comfort visivo.

### XPECTRUM LED



### Commercially available LED 4000 K

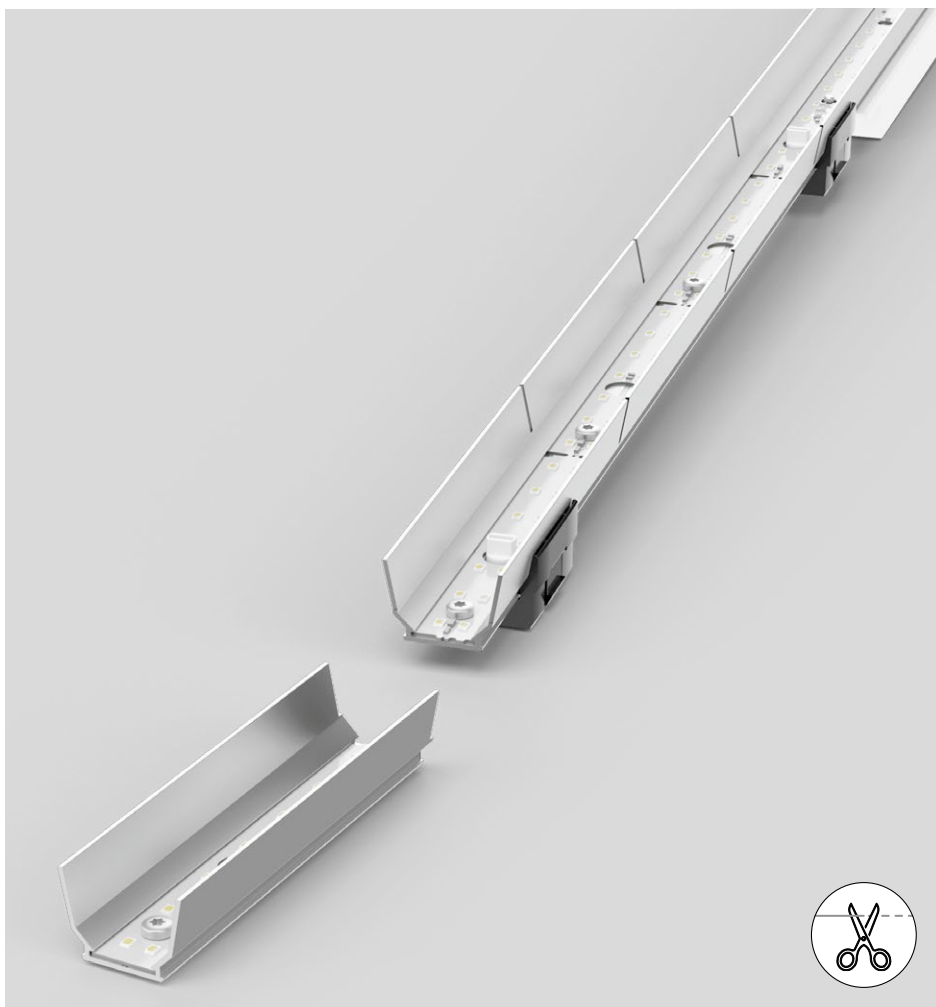




## Precise planning with flex insets

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 62.5mm or 125mm, depending on the length of the profile. This gives you a free hand and minimal restrictions in the lighting design.

IT Il sistema di illuminazione si può adattare facilmente alle dimensioni dell'ambiente. Per MINO 40 / FRAME 40 è possibile specificare lunghezze individuali. Gli speciali Flex-Inset si adattano in modo preciso e flessibile durante l'installazione sul posto: i segmenti vengono semplicemente tagliati nei punti di interruzione prefabbricati. Questi si trovano a 62,5 mm o 125 mm, a seconda della lunghezza del profilo. Di conseguenza si ha mano libera e quasi nessuna restrizione nel progetto illuminotecnico.

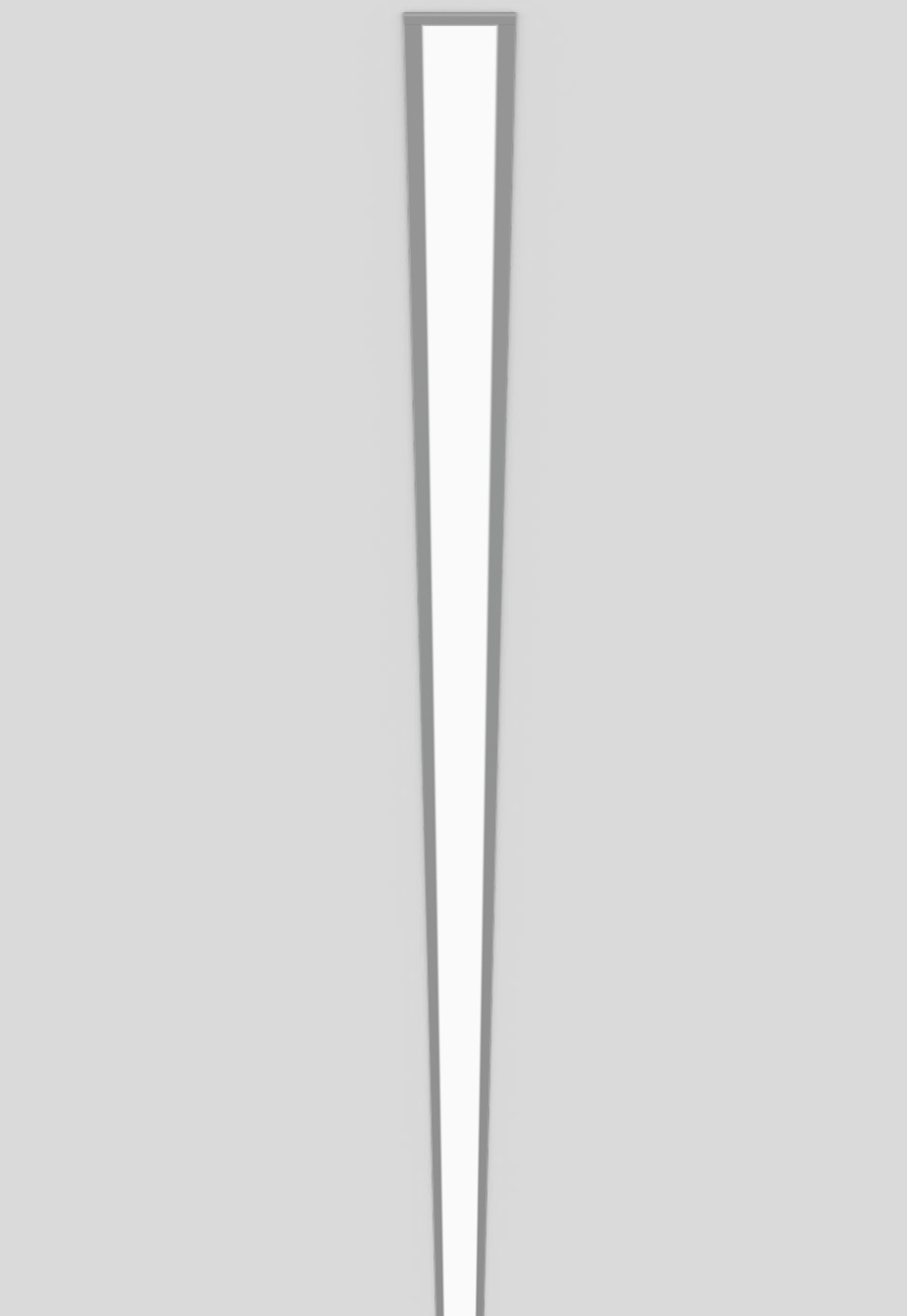


## Spot Insets

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.

IT Accenti eleganti nell'ambiente e design essenziale: con i nuovi Spot Inset, gli apparecchi in sistema si sfruttano per accenti luminosi che valorizzano pareti, pavimenti e soffitti. Inoltre l'inserito Wallwasher Floor è perfetto per illuminare in modo uniforme ad esempio la lavagna di un'aula oppure un corridoio. Il montaggio di questi inserti non richiede utensili bensì si esegue con una manopola, mentre i faretti vengono semplicemente sbloccati e inseriti a scatto.





## FRAME 40 system

recessed with trim

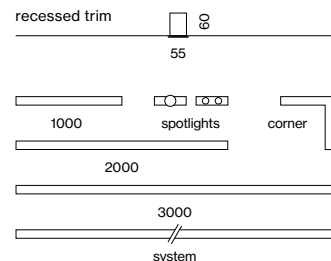
**EN** Luminaire housing made of extruded aluminium; recessed luminaire with trim; designed for continuous lighting systems; suitable for ceiling thickness of 8-25 mm; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; HPO (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

**IT** Corpo illuminante in profilo di alluminio estruso; apparecchio da incasso con bordo perimetrale; per sistemi di file continue; per soffitti di spessore 8-25 mm; verniciatura a polvere; profilo consegnabile in anticipo; restanti componenti montabili senza utensili; cover HPO (High Performance Opal) della lunghezza dell'inserito luminoso o cover continua (entrambe da ordinare separatamente); binario elettrificato premontato per l'alimentazione nel profilo; presa di tens. per inserto lum. sul binario elettr.; unità d'illuminazione in profilo di alluminio estruso con verniciatura altamente riflettente per gestione termica migliorata; LED ad efficienza energetica con elevata resa cromatica; a scelta è possibile installare inserti a faretto

### Quickinfo

3000K, 4000K  
CRI ≥ 90, 3 SDCM  
up to 2420 lm/m  
up to 123 lm/W  
L85 @ 50000h  
DALI-2

### Types



### Colours



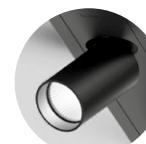
### Light distributions



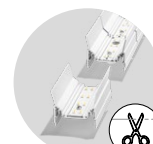
DiiA® standards  
251, 252, 253



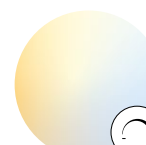
snap-in system  
(patent pending)



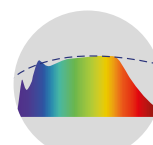
spotlight  
insets (p.130)



breakable  
flex insets



tunable white  
2700–6500K



CRI ≥ 98  
XPECTRUM

## 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 |   |
|--------|---|
| 1000mm | 1 |
| 2000mm | 2 |
| 3000mm | 3 |

| LIGHT OPTIC COVER     |  |
|-----------------------|--|
| opal high performance |  |

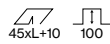
## Options on request

| COLOUR RENDERING INDEX |  |
|------------------------|--|
| CRI ≥ 98 XPECTRUM      |  |

| COLOUR TEMPERATURE       |  |
|--------------------------|--|
| tunable white 2700–6500K |  |

| LIGHT OPTIC COVER |  |
|-------------------|--|
| microprismatic    |  |

## 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 |

## 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     |



## 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/4000K  | 12.4W/m      | 1430lm/m     | 116lm/W  |
| high lumen/opal/4000K | 20.1W/m      | 2240lm/m     | 112lm/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  
4000K, CRI ≥ 90, colour white, cover opal  
3000K -5%

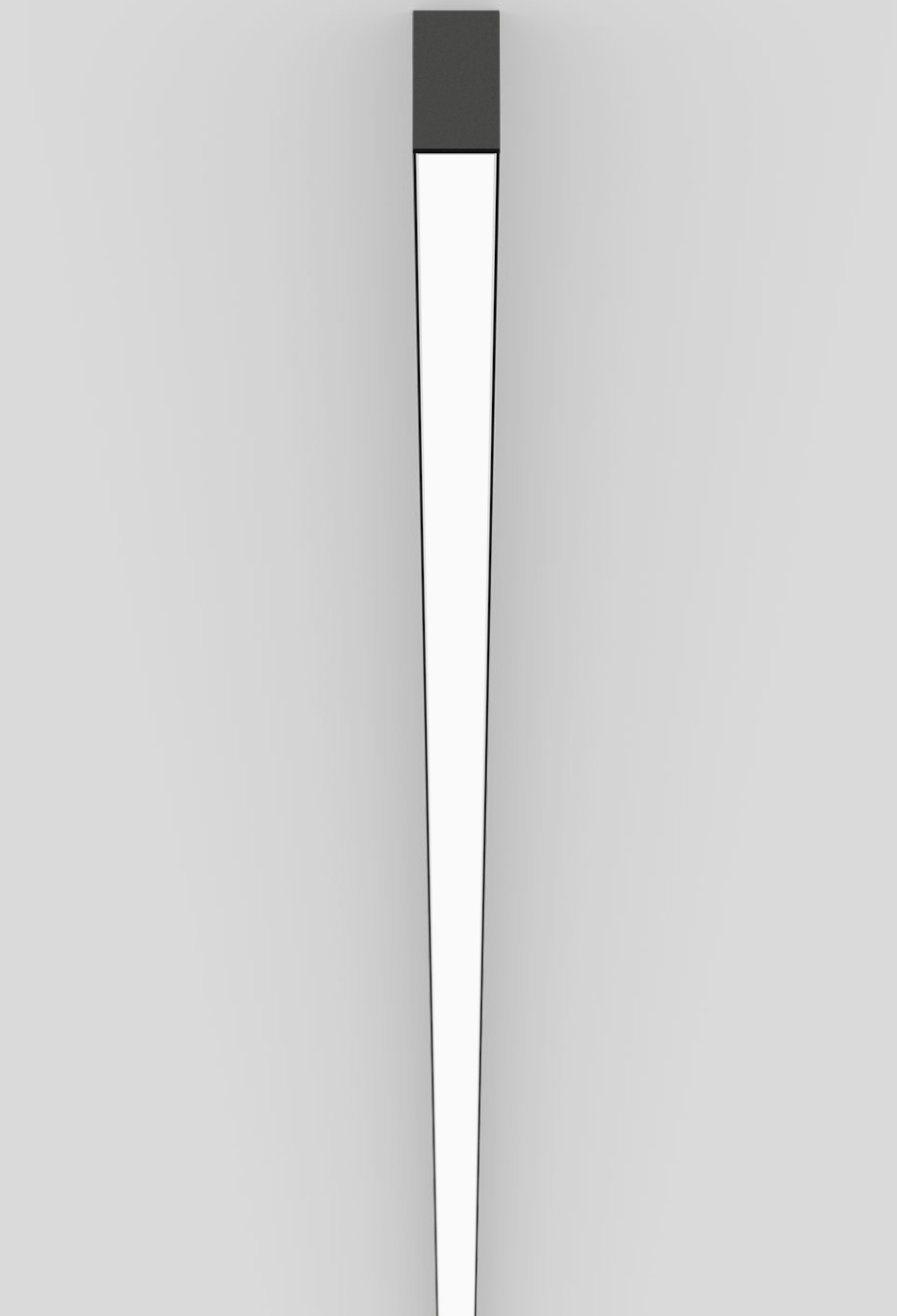


**Psychiatrische Klinik Königshof** Krefeld, DE –  
by alsh sander.hofrichter architekten GmbH









## MINO 40 system

ceiling / suspended

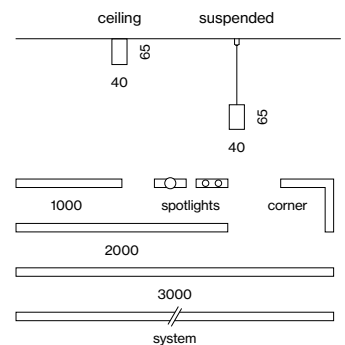
**EN** Luminaire housing from extruded aluminium profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; HPO (High Performance Opal) cover in the length of the light inset 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

**IT** Corpo illuminante in profilo di alluminio estruso, modello squadrato; nessuna vite visibile; per sistemi di illuminazione; verniciatura a polvere; profilo consegnabile in anticipo; restanti componenti montabili senza utensili; cover HPO (High Performance Opal) della lunghezza dell'inserito luminoso o cover continua (entrambe da ordinare separatamente); binario elettrificato premontato per l'alimentazione nel profilo; presa di tens. per inserto lum. sul binario elettr.; montaggio a soffitto o a sospensione; regolazione altezza senza utensili; con cavo di alimentazione trasparente; inserto luminoso costituito da un profilo estruso verniciato altamente riflettente, gestione termica migliorata; LED a risp. energ. - ottima resa cromatica; a scelta è possibile installare inserti a faretto

### Quickinfo

3000K, 4000K  
CRI ≥ 90, 3 SDCM  
up to 2420 lm/m  
up to 123 lm/W  
L85 @ 50000h  
DALI-2

### Types



### Colours



### Light distributions



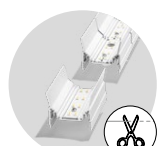
DiiA® standards  
251, 252, 253



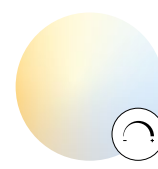
snap-in system  
(patent pending)



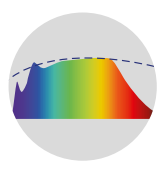
spotlight  
insets (p.130)



breakable  
flex insets



tunable white  
2700-6500K



CRI ≥ 98  
XPECTRUM



## 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 |   |
|--------|---|
| 1000mm | 1 |
| 2000mm | 2 |
| 3000mm | 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 |

### 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     |



### 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/4000K  | 12.8 W/m     | 1560 lm/m    | 122 lm/W |
| high lumen/opal/4000K | 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  
4000K, CRI ≥ 90, colour white, cover opal  
3000K -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

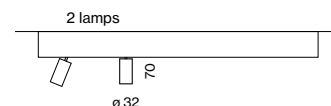
**IT** Faretto cilindrico in alluminio; verniciatura a polvere; faretto installabile senza attrezzi nel sistema MINO 40 o nel sistema FRAME 40; a scelta a monoemissione o biemissione; testa del faretto ruotabile (WALLWASHER/FLOOR) o ruotabile e orientabile (SPOTLIGHT); convertitore nell'adattatore; a scelta con ottica lenticolare di precisione; oppure riflettore d'alta qualità con ottica sfaccettata in alluminio applicato a vapore; curva fotometrica precisa con diversi angoli di emissione; in opzione distribuzione asim. della luce; ottima schermatura con superficie di emissione arretrata; unità ottiche come accessori; tecnologia COB (Chip on Board) o LED high power - massima efficienza; assenza di ombre multiple; LED a risp. energ. - ottima resa cromatica

### Quickinfo

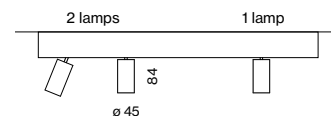
3000K, 4000K  
CRI ≥ 90, 2 SDCM  
spotlight 32 up to 79lm/W  
spotlight 45 up to 85lm/W  
L80 @ 50000h  
DALI-2

### Types

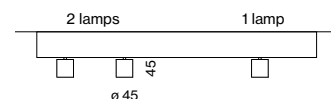
#### SPOTLIGHT 32



#### SPOTLIGHT 45



#### SPOTLIGHT 45 wallwasher floor



### 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 |

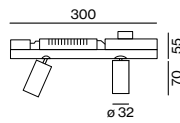
| CONTROL |  |
|---------|--|
| DALI-2  |  |

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

| BEAM ANGLE<br>SPOTLIGHT 32 |   |
|----------------------------|---|
| spot 18°                   | S |
| medium 23°                 | M |
| flood 37°                  | F |

| BEAM ANGLE<br>SPOTLIGHT 45 |   |
|----------------------------|---|
| spot 14°                   | S |
| medium 24°                 | M |
| flood 39°                  | F |

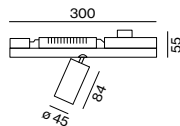
## SPOTLIGHT 32



## 2 LAMPS

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

## SPOTLIGHT 45



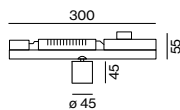
## 1 LAMP

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

## 2 LAMPS

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

## SPOTLIGHT 45 wallwasher / floor



## 1 LAMP

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

## 2 LAMPS

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



**Corridor**  
Visualisation





## Get in contact

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**IT** Ci siamo posti l'obiettivo di sviluppare e perfezionare i progetti, in collaborazione con architetti e progettisti, e di renderli unici. Ci consideriamo il tuo partner. Dalla progettazione alla scelta del prodotto più adatto, fino all'installazione e alla manutenzione, siamo al tuo fianco in tutte le fasi del tuo progetto. Parliamo del tuo progetto: **office@xal.com**

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