

# TUBO 60 CONEX

## socket / socket

surface / suspended system  
058-30391370



Project / Type

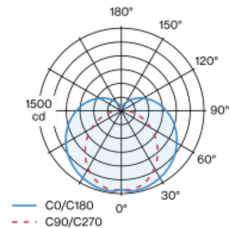
Notes

Count / Date



Carrier profile made of extruded aluminium profile; converter integrated into luminaire housing; for continuous lighting systems; surface pure white powder coated; for wall-/ceiling surface mounting or suspended mounting (1500 mm cable suspension - oblique or straight - as an accessory); easy installation using ceiling clips (available as an accessory) or with integrated toolless suspension height adjustment on the luminaire; freely positioned attachment to the luminaire; canopy for through wiring (available as an accessory); electrical connection of the luminaires via plug/socket system; connectors (L-, T- or X-shape) available as an accessory; luminaire connection rotatable around its own axis, which means that any spatial angle can be realized; light control via high quality lens system for maximum, homogeneous illumination; cylindrical cover made of satin PMMA for uniform illumination; with gentle ceiling illumination; light colour 4000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 90$ ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection IP20; PC1; incl. DALI-2 converter; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

### Light distribution



### Product drawing



### General

Ceiling / Wall | Surface

pure white | RAL 9010

IP20

7340 lm

2500 lm/m

### LED

4000 K

CRI  $\geq 90$

L90 / 50000 h

initial MacAdam  $\leq 3$  SDCM

R<sub>g</sub>: 99 | R<sub>r</sub>: 92 | R<sub>t1-15</sub>: 90

MR 0.81 | MDER 0.74

### Optical

High Performance Opal | opal (lambertsch)

PstLM  $\leq 1.0$  <sup>1</sup> | SVM  $\leq 0.4$  <sup>1</sup>

### Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 67 W

system 110 lm/W <sup>2</sup>

socket / socket

23 W/m

### Physical

length 2936 mm | width 60 mm | height 60 mm

4.1 kg

<sup>1</sup> Value of containing product at full load (undimmed)  
<sup>2</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

### Installation instructions



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### Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.98   | 0.96   | 0.94   | 0.92   | 0.9    |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

Lamp Survival Factor

<sup>a</sup> According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

### Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10                            | 12                 |
| B13                            | 16                 |
| B16                            | 20                 |
| B20                            | 25                 |
| C10                            | 20                 |
| C13                            | 27                 |
| C16                            | 34                 |
| C20                            | 41                 |



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### Mounting accessories

#### LINEAR CONNECTOR surface

| TYPE                    | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------|------------|--------|-------------------|
| mechanical              | pure white | 60     | 058-3013117       |
| mechanical              | jet black  | 60     | 058-3013118       |
| mechanical & electrical | pure white | 60     | 058-3013127       |
| mechanical & electrical | jet black  | 60     | 058-3013128       |



60 18 7

#### LINEAR CONNECTOR suspended

| TYPE                    | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------|------------|--------|-------------------|
| mechanical              | pure white | 60     | 058-3013217       |
| mechanical              | jet black  | 60     | 058-3013218       |
| mechanical & electrical | pure white | 60     | 058-3013227       |
| mechanical & electrical | jet black  | 60     | 058-3013228       |



60 18 7

#### L CONEX CONNECTOR

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| mechanical & electrical | pure white | 058-3018727       |
| mechanical & electrical | jet black  | 058-3018728       |



#### T CONEX CONNECTOR

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| mechanical & electrical | pure white | 058-3018827       |
| mechanical & electrical | jet black  | 058-3018828       |



#### X CONEX CONNECTOR

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| mechanical & electrical | pure white | 058-3018927       |
| mechanical & electrical | jet black  | 058-3018928       |



#### CONEX FLEX CONNECTOR

| TYPE                    | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------|------------|--------|-------------------|
| mechanical & electrical | pure white | 60     | 058-3018627       |
| mechanical & electrical | jet black  | 60     | 058-3018628       |



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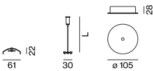
Notes

Count / Date

### Mounting accessories

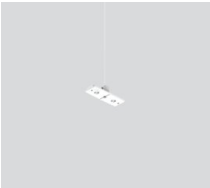
#### CEILING MOUNTING SET

| COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|------------|------------|-------------------|
| pure white | 75-20-10   | 058-3014117       |
| jet black  | 75-20-10   | 058-3014118       |



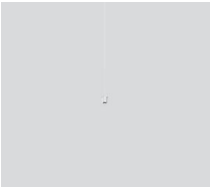
#### CABLE SUSPENSION

| TYPE                              | COLOUR | ARTICLE NUMBER(S) |
|-----------------------------------|--------|-------------------|
| cable suspension                  | chrome | 058-3014210       |
| cable suspension                  | black  | 058-3014218       |
| cable suspension angular max. 60° | chrome | 058-3014310       |
| cable suspension angular max. 60° | black  | 058-3014318       |



#### CONNECTOR CABLE SUSPENSION

| COLOUR | ARTICLE NUMBER(S) |
|--------|-------------------|
| chrome | 058-3018110       |
| black  | 058-3018118       |



#### CANOPY

| COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|------------|--------|-------------------|
| pure white | 90     | 005-2600037       |
| jet black  | 90     | 005-2600038       |



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## Electrical accessories

### END CAP POWER FEEDER surface

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3010217  
058-3010218



### MIDDLE POWER FEEDER surface

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3011217  
058-3011218



### END CAP POWER FEEDER suspended

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3010417  
058-3010418



### MIDDLE POWER FEEDER suspended

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3011317  
058-3011318



### L CONEX POWER FEEDER suspended

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3018737  
058-3018738



## Electrical accessories

### ESSENTIAL SENSOR

TYPE  
brightness & presence  
brightness & presence

COLOUR  
pure white  
jet black

L-W-H (MM)  
90-60-65  
90-60-65

ARTICLE NUMBER(S)  
058-3019117  
058-3019118



### SENSE SENSOR

TYPE  
brightness, presence, temperature, sound pressure, humidity, CO2  
brightness, presence, temperature, sound pressure, humidity, CO2

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3019217  
058-3019218



[058-30391370] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.  
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08.08.2025

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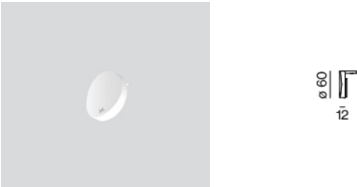
Notes

Count / Date

## Optical accessories

### END CAP

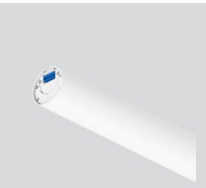
| COLOUR     | ARTICLE NUMBER(S) |
|------------|-------------------|
| pure white | 058-3010017       |
| jet black  | 058-3010018       |



## Optical accessories

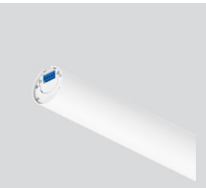
### BLIND CHANNEL standard

| TYPE                                 | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|--------------------------------------|------------|------------|-------------------|
| plug / socket   incl. through wiring | pure white | 585-60-60  | 058-4922037       |
| plug / socket   incl. through wiring | jet black  | 585-60-60  | 058-4922038       |
| plug / socket   incl. through wiring | pure white | 1185-60-60 | 058-4924037       |
| plug / socket   incl. through wiring | jet black  | 1185-60-60 | 058-4924038       |
| plug / socket   incl. through wiring | pure white | 2351-60-60 | 058-4928037       |
| plug / socket   incl. through wiring | jet black  | 2351-60-60 | 058-4928038       |
| plug / socket   incl. through wiring | pure white | 2936-60-60 | 058-4929037       |
| plug / socket   incl. through wiring | jet black  | 2936-60-60 | 058-4929038       |

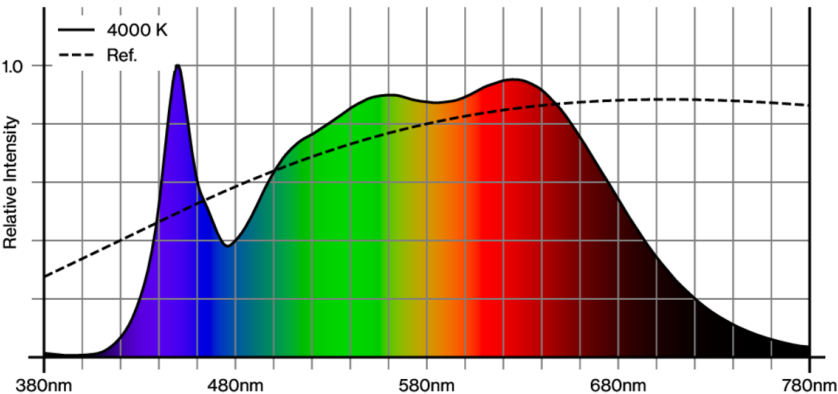


### BLIND CHANNEL CONEX L/T/X

| TYPE                                   | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|--|------------|------------|-------------------|
| socket / socket   incl. through wiring | pure white | 585-60-60  | 058-4932037       |
| socket / socket   incl. through wiring | jet black  | 585-60-60  | 058-4932038       |
| socket / socket   incl. through wiring | pure white | 1185-60-60 | 058-4934037       |
| socket / socket   incl. through wiring | jet black  | 1185-60-60 | 058-4934038       |
| socket / socket   incl. through wiring | pure white | 2351-60-60 | 058-4938037       |
| socket / socket   incl. through wiring | jet black  | 2351-60-60 | 058-4938038       |
| socket / socket   incl. through wiring | pure white | 2936-60-60 | 058-4939037       |
| socket / socket   incl. through wiring | jet black  | 2936-60-60 | 058-4939038       |



## Colour rendering



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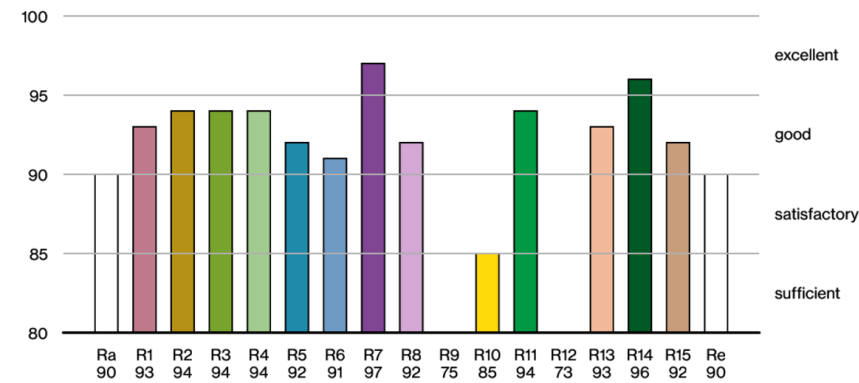


Project / Type

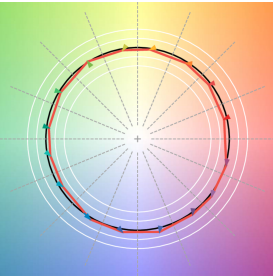
Notes

Count / Date

CRI/R<sub>a</sub> ≥ 93 R<sub>e</sub> ≥ 90 (4000 K)



### TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.