

# TUBO 60 CONEX plug / socket

surface / suspended system  
058-30291370



Project / Type

Notes

Count / Date



### General

Ceiling / Wall | Surface

pure white | RAL 9010

IP20

7340 lm

2500 lm/m

### LED

4000 K

CRI ≥ 90

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 99 | R<sub>r</sub>: 92 | R<sub>t(1-15)</sub>: 90

MR 0.81 | MDER 0.74

### Optical

High Performance Opal | opal (lambertsch)

PstLM ≤ 1.0 <sup>1</sup> | SVM ≤ 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>

plug / socked

23 W/m

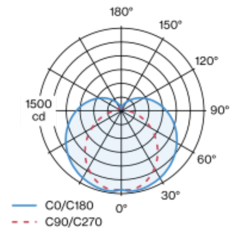
### Physical

length 2936 mm | width 60 mm | height 60 mm

4.3 kg

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 ≤ 3 SDCM; CRI ≥ 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



### 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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## 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



[058-30291370] 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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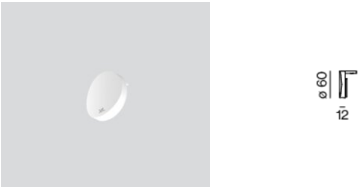
Notes

Count / Date

## Optical accessories

### END CAP

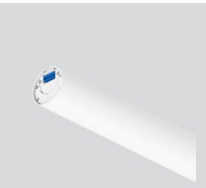
COLOUR	ARTICLE NUMBER(S)
pure white	058-3010017
jet black	058-3010018



## Optical accessories

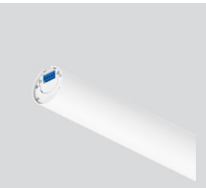
### BLIND CHANNEL standard

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

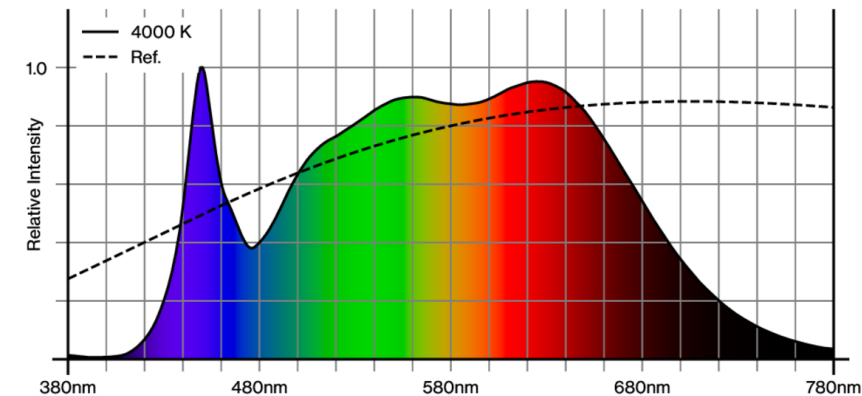


### BLIND CHANNEL CONEX L/T/X

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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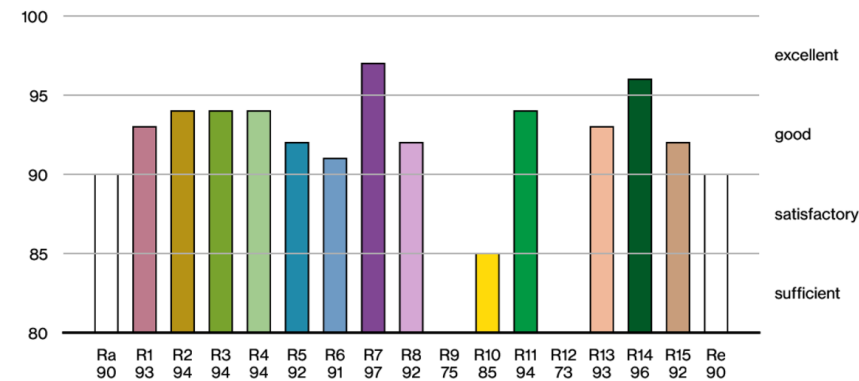


Project / Type

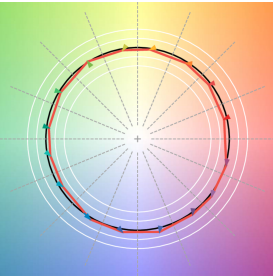
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CRI/R<sub>a</sub> ≥ 93 R<sub>e</sub> ≥ 90 (4000 K)



## 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.