

# BO 45 surface

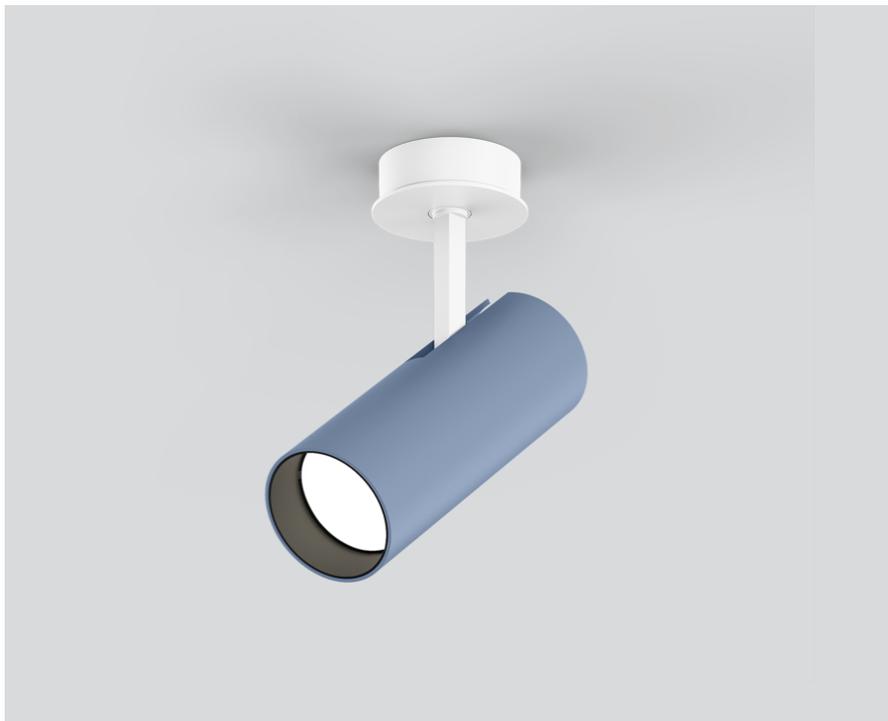
049-623071XF 002-90728



Project / Type \_\_\_\_\_

Notes \_\_\_\_\_

Count / Date \_\_\_\_\_



## General

Ceiling , Surface \_\_\_\_\_  
 tilt max 90° \_\_\_\_\_  
 rotation 350° \_\_\_\_\_  
 special colours \_\_\_\_\_  
 IP20 \_\_\_\_\_  
 1320 lm \_\_\_\_\_

## LED

3500 K \_\_\_\_\_  
 CRI ≥ 90 \_\_\_\_\_  
 L80 / 50000 h \_\_\_\_\_  
 initial MacAdam ≤ 2 SDCM \_\_\_\_\_  
 R<sub>g</sub>: 97 , R<sub>f</sub>: 90 , R<sub>f(1-15)</sub>: 89 \_\_\_\_\_  
 MR 0.7 \_\_\_\_\_  
 MDER 0.63 \_\_\_\_\_

## Optical

flood \_\_\_\_\_  
 beam angle 36° \_\_\_\_\_  
 PstLM ≤ 1.0 <sup>1</sup> \_\_\_\_\_  
 SVM ≤ 0.4 <sup>1</sup> \_\_\_\_\_

## Electrical

DALI-2 \_\_\_\_\_  
 15.9 W \_\_\_\_\_  
 PC2 220-240V \_\_\_\_\_  
 83 lm/W \_\_\_\_\_  
 1 DALI Addr. \_\_\_\_\_

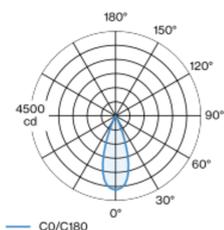
## Physical

diameter 45 mm \_\_\_\_\_  
 height 155 mm \_\_\_\_\_  
 0.34 kg \_\_\_\_\_

<sup>1</sup> Value of containing product at full load (undimmed)

Cylindrical spotlight in aluminium; surface special colours powder coated; 350° rotatable and 90° tiltable; with surface mounted housing; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3500 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; high quality, aluminium, vapour deposition coated reflector with faceted lens design; precise radiation characteristic with 36° beam; good glare control through recessed light point level; optical attachment available as accessory; accessories are listed separately; degree of protection IP20; PC2 220-240V; incl. DALI-2 converter; flicker-free visual comfort through analogue current control (minimum value 1%); external converter for ceiling insertion, through-wiring suitable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



flood 36°

h (m)	EO° (lx)	ø (m)
1	3930	0.65
2	980	1.29
3	440	1.94
4	250	2.59
5	160	3.23

## Product drawing



## Installation instructions



## Lighting calculator





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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.964	0.923	0.884	0.847	0.811
LSF	1	1	1	1	1

MF	LMF × RSMF × LLMF × LSF	RSMF <sup>a</sup>	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF <sup>a</sup>	Luminaire Maintenance Factor	LSF	Lamp Survival Faktor

<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	36
B13	47
B16	58
C10	36
C13	78
C16	58

## Components

### POWER SUPPLY

L-W-H (MM)	ARTICLE NUMBER(S)
197-29-21	002-90728



### Optional electrical accessories

#### DIN RAIL POWER SUPPLY

L-W-H (MM)	ARTICLE NUMBER(S)
72-90-63	005-6520210



#### DIN RAIL LED DRIVER

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
DALI-2   200-1050 mA   2 x 42W	36-88-59	005-6121030



### Optical accessories

#### HONEYCOMB LOUVER

COLOUR	Ø (MM)	ARTICLE NUMBER(S)
jet black	42	007-1965188

