

# BO 45 surface

049-6230718V 002-90726



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

Notes \_\_\_\_\_

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



## General

Ceiling , Track \_\_\_\_\_  
tilt max 90° \_\_\_\_\_  
rotation 350° \_\_\_\_\_  
black , RAL9005 <sup>1</sup> \_\_\_\_\_  
IP20 \_\_\_\_\_  
346 lm \_\_\_\_\_

## LED

3500 K \_\_\_\_\_  
CRI ≥ 90 \_\_\_\_\_  
L85 / 50000 h \_\_\_\_\_  
initial MacAdam ≤ 3 SDCM \_\_\_\_\_  
R<sub>g</sub>: 97 , R<sub>f</sub>: 90 , R<sub>f(1-15)</sub>: 87 \_\_\_\_\_  
MR 0.68 \_\_\_\_\_  
MDER 0.62 \_\_\_\_\_

## Optical

super spot \_\_\_\_\_  
beam angle 8° \_\_\_\_\_  
PstLM ≤ 1.0 <sup>2</sup> \_\_\_\_\_  
SVM ≤ 0.4 <sup>2</sup> \_\_\_\_\_

## Electrical

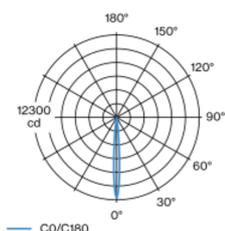
non DIM \_\_\_\_\_  
9.2 W \_\_\_\_\_  
PC2 220-240V \_\_\_\_\_  
38 lm/W \_\_\_\_\_

## Physical

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

Cylindrical spotlight in aluminium; surface black powder coated; 350° rotatable and 90° tiltable; with surface mounted housing; passive cooling of the LEDs through improved heat sink geometry; with high power LED for maximum efficiency; no appearance of multiple shadows; light colour 3500 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 8° 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. converter, non dimmable; external converter for ceiling insertion, through-wiring suitable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

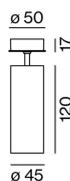
## Light distribution



super spot 8°

h (m)	E0° (lx)	ø (m)
1	12100	0.14
2	3000	0.28
3	1300	0.41
4	800	0.55
5	500	0.69

## Product drawing



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)

## Installation instructions



## Lighting calculator



[049-6230718V 002-90726] 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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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.95	0.92	0.89	0.86
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.

## Components

### POWER SUPPLY

<b>L-W-H (MM)</b> 210-30-21	<b>ARTICLE NUMBER(S)</b> 002-90726
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## Optional electrical accessories

### DIN RAIL POWER SUPPLY

<b>L-W-H (MM)</b> 72-90-63	<b>ARTICLE NUMBER(S)</b> 005-6520210
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### DIN RAIL LED DRIVER

<b>TYPE</b> DALI-2   200-1050 mA   2 x 42W	<b>L-W-H (MM)</b> 36-88-59	<b>ARTICLE NUMBER(S)</b> 005-6121030
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## Optical accessories

### HONEYCOMB LOUVER

<b>COLOUR</b> jet black	<b>Ø (MM)</b> 42	<b>ARTICLE NUMBER(S)</b> 007-1965188
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