

# BO 45 semi-recessed

049-6130418M 002-90728



Project / Type

Notes

Count / Date



General

Ceiling , Semi-Recessed

tilt max 90°

rotation 350°

black , RAL 9005 <sup>1</sup>

IP20

1220 lm

fixture 90 lm/W<sup>2</sup>

LED

2700 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R<sub>g</sub>: 99 , R<sub>r</sub>: 91 , R<sub>(1-15)</sub>: 89

MR 0.53

MDER 0.48

Optical

medium

beam angle 24°

PstLM ≤ 1.0 <sup>3</sup>

SVM ≤ 0.4 <sup>3</sup>

Electrical

DALI-2

220-240 V

system 15.9 W

fixture 13.5 W

36 Vf

400 mA

PC2

1 DALI Addr.

Physical

diameter 45 mm

height 149 mm

0.34 kg

Cutout

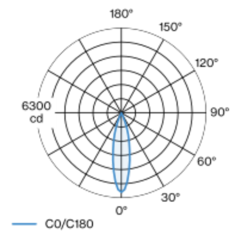
diameter 46 mm

min. ceiling thickness 2 mm

max. ceiling thickness 25 mm

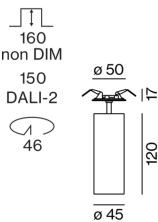
recessed depth 150 mm

## Light distribution



medium 24°			
h (m)	EO° (lx)	ø (m)	
1	5880	0.43	
2	1470	0.86	
3	650	1.30	
4	370	1.73	
5	240	2.16	

## Product drawing



<sup>1</sup> RAL code  
<sup>2</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.  
<sup>3</sup> Value of containing product at full load (undimmed)

## Installation instructions



## Lighting calculator



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### Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.96	0.92	0.88	0.85	0.81
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

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
160 W	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



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## Optical accessories

### OVAL LENS

<b>Ø (MM)</b>	<b>ARTICLE NUMBER(S)</b>
42	007-1965880



### SOFT LENS

<b>Ø (MM)</b>	<b>ARTICLE NUMBER(S)</b>
42	007-1965980



### WALLWASHER LENS

<b>Ø (MM)</b>	<b>ARTICLE NUMBER(S)</b>
42	007-1965780

