

# BO 55 surface

049-6240517S 002-90726



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

Notes \_\_\_\_\_

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



## General

Ceiling , Surface \_\_\_\_\_  
tilt max 90° \_\_\_\_\_  
rotation 350° \_\_\_\_\_  
white , RAL9016 <sup>1</sup> \_\_\_\_\_  
IP20 \_\_\_\_\_  
1880 lm \_\_\_\_\_

## LED

3000 K \_\_\_\_\_  
CRI ≥ 90 \_\_\_\_\_  
L80 / 50000 h \_\_\_\_\_  
initial MacAdam ≤ 2 SDCM \_\_\_\_\_  
R<sub>g</sub>: 100 , R<sub>f</sub>: 91 , R<sub>f(1-15)</sub>: 88 \_\_\_\_\_  
MR 0.59 \_\_\_\_\_  
MDER 0.53 \_\_\_\_\_

## Optical

spot \_\_\_\_\_  
beam angle 17° \_\_\_\_\_  
PstLM ≤ 1.0 <sup>2</sup> \_\_\_\_\_  
SVM ≤ 0.4 <sup>2</sup> \_\_\_\_\_

## Electrical

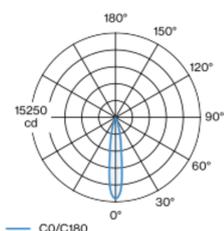
non DIM \_\_\_\_\_  
24.7 W \_\_\_\_\_  
PC2 220-240V \_\_\_\_\_  
76 lm/W \_\_\_\_\_

## Physical

diameter 55 mm \_\_\_\_\_  
height 165 mm \_\_\_\_\_  
0.55 kg \_\_\_\_\_

Cylindrical spotlight in aluminium; surface white 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 3000 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 17° 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;

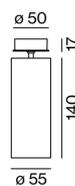
## Light distribution



spot 17°

h (m)	E0° (lx)	ø (m)
1	14700	0.30
2	3700	0.59
3	1600	0.89
4	900	1.19
5	600	1.48

## Product drawing



<sup>1</sup> RAL code <sup>2</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	31
B13	40
B16	50
B20	62
B25	78
C10	52
C13	67
C16	85
C20	104
C25	130

## Components

### POWER SUPPLY

L-W-H (MM)  
210-30-21

ARTICLE NUMBER(S)  
002-90726



### Optional electrical accessories

#### DIN RAIL POWER SUPPLY

L-W-H (MM)  
72-90-63

ARTICLE NUMBER(S)  
005-6520210



#### DIN RAIL LED DRIVER

TYPE  
DALI-2 | 200-1050 mA | 2 x 42W

L-W-H (MM)  
36-88-59

ARTICLE NUMBER(S)  
005-6121030



## Optical accessories

### HONEYCOMB LOUVER

COLOUR  
jet black

Ø (MM)  
50

ARTICLE NUMBER(S)  
007-1965598



[049-6240517S 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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