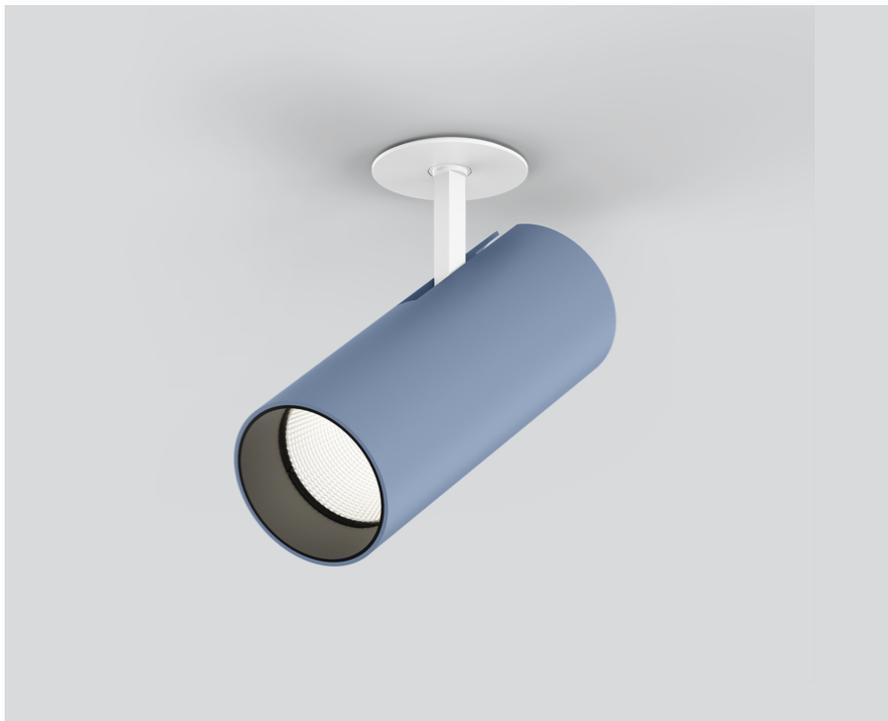


# BO 55 semi-recessed

049-614071XM 002-90726



Project / Type \_\_\_\_\_  
 Notes \_\_\_\_\_  
 Count / Date \_\_\_\_\_



## General

Ceiling , Semi-Recessed  
 tilt max 90°  
 rotation 350°  
 special colours  
 IP20  
 1900 lm  
 fixture 90 lm/W<sup>1</sup>

## LED

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

## Optical

medium  
 beam angle 31°  
 P<sub>stLM</sub> ≤ 1.0<sup>2</sup>  
 SVM ≤ 0.4<sup>2</sup>

## Electrical

non DIM  
 220-240 V  
 system 24.7 W  
 fixture 21.0 W  
 36 Vf  
 600 mA  
 PC2

## Physical

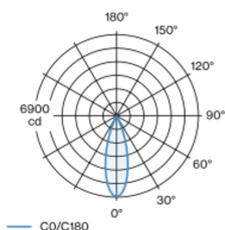
diameter 55 mm  
 height 159 mm  
 0.55 kg

## Cutout

diameter 46 mm  
 min. ceiling thickness 2 mm  
 max. ceiling thickness 25 mm  
 recessed depth 190 mm

Cylindrical spotlight in aluminium; surface special colours powder coated; 350° rotatable and 90° tiltable; recessed version with trim; suitable for ceiling thickness of 2-25 mm; 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 31° beam; good glare control through recessed light point level; optical attachment available as accessory; accessories are listed separately; degree of protection IP20; PC2; 220-240 V; 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;

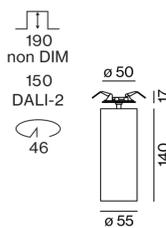
## Light distribution



medium 31°

h (m)	EO° (lx)	ø (m)
1	6860	0.55
2	1710	1.10
3	760	1.65
4	430	2.20
5	270	2.75

## Product drawing



<sup>1</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>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	0.964	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	31
B13	40
B16	50
B20	62
B25	78
C10	52
C13	67
C16	85
C20	104
C25	130

## Components

### POWER SUPPLY

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
30 W	210-30-21	002-90726



### 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	50	007-1965598



[049-614071XM 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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Project / Type

Notes

Count / Date

## Optical accessories

### OVAL LENS

Ø (MM)  
50

ARTICLE NUMBER(S)  
007-1965890



### SOFT LENS

Ø (MM)  
50

ARTICLE NUMBER(S)  
007-1965990



### WALLWASHER LENS

Ø (MM)  
50

ARTICLE NUMBER(S)  
007-1965790

