

BO 45 semi-recessed

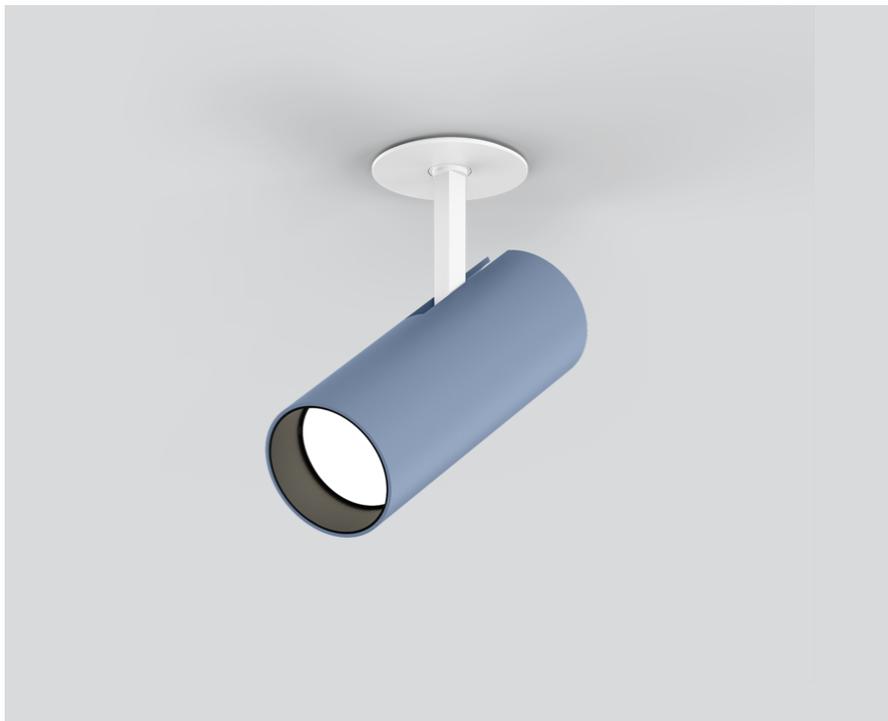
049-613071XS 002-90722



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Semi-Recessed
 tilt max 90°
 rotation 350°
 special colours
 IP20
 1030 lm

LED

3500 K
 CRI ≥ 90
 L80 / 50000 h
 initial MacAdam ≤ 2 SDCM
 R_g: 97 , R_r: 90 , R₍₁₋₁₅₎: 89
 MR 0.7
 MDER 0.63

Optical

spot
 beam angle 12°
 PstLM ≤ 1.0 ¹
 SVM ≤ 0.4 ¹

Electrical

non DIM
 15.0 W
 PC2 220-240V
 69 lm/W

Physical

diameter 45 mm
 height 149 mm
 0.57 kg

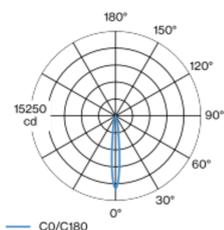
Cutout

min. ceiling thickness 2 mm
 max. ceiling thickness 25 mm
 recessed depth 160 mm

¹ Value of containing product at full load (undimmed)

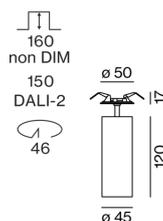
Cylindrical spotlight in aluminium; surface special colours powder coated; 350° rotatable and 90° tiltable; recessed version with trim; suitable for ceiling thickness of 2-25 mm; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; 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 12° 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



h (m)	EO° (lx)	ø (m)
1	13000	0.21
2	3300	0.42
3	1400	0.63
4	800	0.84
5	500	1.06

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 ^a	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF ^a	Luminaire Maintenance Factor	LSF	Lamp Survival Faktor

^a 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)
180-30-21

ARTICLE NUMBER(S)
002-90722



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)
42

ARTICLE NUMBER(S)
007-1965188



[049-613071XS 002-90722] 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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