



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Surface _____

tilt max 90° _____

rotation 350° _____

black , RAL 9005 ¹ _____

IP20 _____

1770 lm _____

fixture 84 lm/W² _____

LED

2700 K _____

CRI ≥ 90 _____

L80 / 50000 h _____

initial MacAdam ≤ 2 SDCM _____

R_g: 99 , R_r: 91 , R₍₁₋₁₅₎: 89 _____

MR 0.53 _____

MDER 0.48 _____

Optical

spot _____

beam angle 17° _____

PstLM ≤ 1.0 ³ _____

SVM ≤ 0.4 ³ _____

Electrical

non DIM _____

220-240 V _____

system 24.7 W _____

fixture 21.0 W _____

36 Vf _____

600 mA _____

PC2 _____

Physical

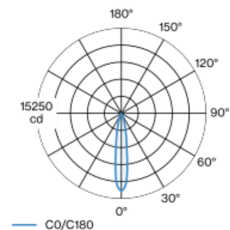
diameter 55 mm _____

height 165 mm _____

0.45 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 COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 2700 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; 220-240 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;

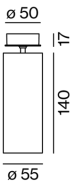
Light distribution



spot 17°

h (m)	EO ³ (lx)	ø (m)
1	13800	0.30
2	3400	0.59
3	1500	0.89
4	900	1.19
5	600	1.48

Product drawing



¹ RAL code

² incl. consideration of optical losses & internal control unit losses

³ Value of containing product at full load (undimmed)

Installation instructions



Lighting calculator





Project / Type

Notes

Count / Date

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

^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

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





Project / Type

Notes

Count / Date

Optical accessories

OVAL LENS

Ø (MM)	ARTICLE NUMBER(S)
50	007-1965890



SOFT LENS

Ø (MM)	ARTICLE NUMBER(S)
50	007-1965990



WALLWASHER LENS

Ø (MM)	ARTICLE NUMBER(S)
50	007-1965790

