

SPIO 60 downlight

trim

048-1510417F 048-1597208 002-90787



Project / Type

Notes

Count / Date



General

Ceiling | Recessed

rotation 360°

white | RAL 9016 ¹

Mounting set jet black

IP20

477 lm

fixture 40 lm/W ²

LED

2700 K

CRI ≥ 90

L95 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 104 | R_f: 88 | R_{f(1-15)}: 89

MR 0.5 | MDER 0.46

Optical

flood | beam angle 34°

UGR ≤ 10

PstLM ≤ 1.0 ³ | SVM ≤ 0.4 ³

Electrical

non DIM

PC2 | 220-240 V

system 14.0 W | fixture 11.9 W

12 Vf | 1050 mA

Physical

trim

diameter 81 mm | height 67 mm

0.39 kg

Cutout

diameter 73 mm

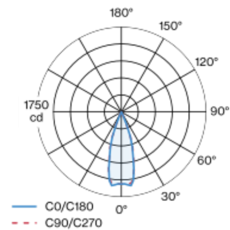
min. ceiling thickness 2 mm | max. ceiling thickness 25 mm

recessed depth 85 mm

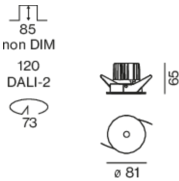
¹ RAL code
² incl. consideration of optical losses & internal control unit losses
³ Value of containing product at full load (undimmed)

Round recessed spotlight in die-cast aluminium; surface white powder coated; installation without tools in mounting set due to patented ball catch system; recessed light with wrap around edge; suitable for ceiling thickness of 2-25 mm; passive cooling of the LEDs through improved heat sink geometry; light colour 2700 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 95% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 34° beam; no multiple shadows; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface (only ø 10 mm); degree of protection IP20; PC2; 220-240 V; incl. converter, non dimmable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



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	1	0.99	0.98	0.97	0.96
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	17
B13	21
B16	27
B20	33
B25	42
C10	28
C13	36
C16	45
C20	56
C25	70

Components

MOUNTING SET with trim

TYPE	COLOUR	Ø (MM)	ARTICLE NUMBER(S)
for intermediate ceilings	jet black	81	048-1597208



POWER SUPPLY

L-W-H (MM)	ARTICLE NUMBER(S)
111-38-28	002-90787



Optional electrical accessories

DIN RAIL POWER SUPPLY

L-W-H (MM)	ARTICLE NUMBER(S)
72-90-63	005-6520210



DIN RAIL LED DRIVER

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
200 - 1050 mA 2 x 42W	36-88-59	005-6121030

