

SPIO 60 downlight

trim

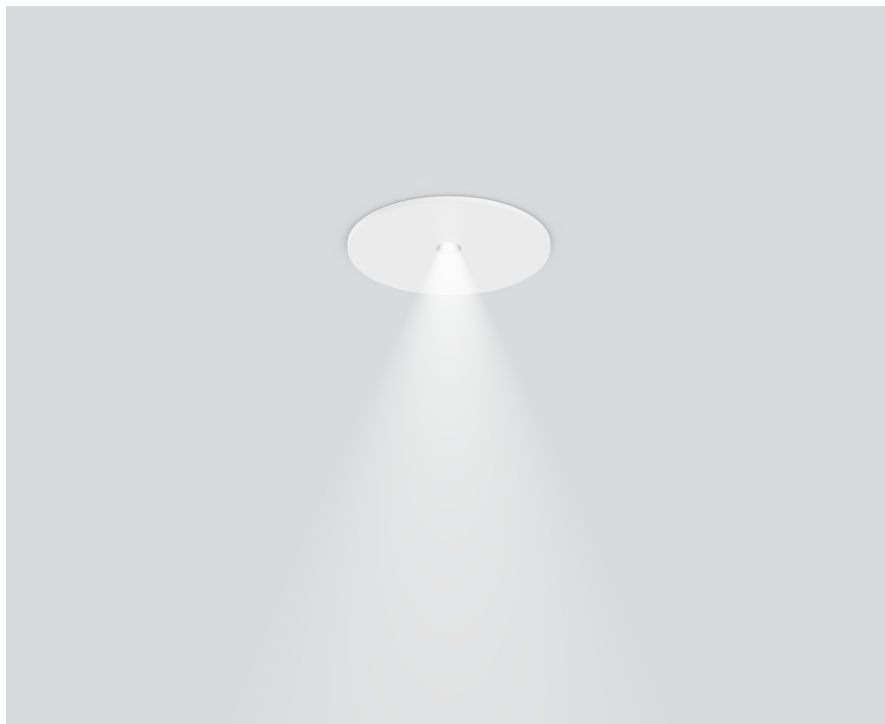
048-1510517F 048-1597207 002-90787



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Recessed _____
rotation 360° _____
white , RAL9016 ¹ _____
Mounting set traffic white _____
front IP20 , back IP20 _____
489 lm _____

LED

3000 K _____
CRI ≥ 90 _____
L95 / 50000 h _____
initial MacAdam ≤ 3 SDCM _____
R_g: 104 , R_f: 91 , R₍₁₋₁₅₎: 92 _____
MR 0.49 _____
MDER 0.54 _____

Optical

flood _____
beam angle 34° _____
UGR < 10 _____

Electrical

non DIM _____
14.0 W _____
inset 11.9 W _____
PC2 220-240V _____
35 lm/W _____

Physical

diameter 81 mm _____
height 67 mm _____
0.3 kg _____

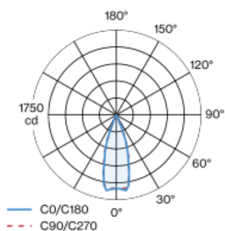
Cutout

min. ceiling thickness 2 mm _____
max. ceiling thickness 25 mm _____
recessed depth 85 mm _____

¹ RAL code

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 3000 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 220-240V; 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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30.05.2023

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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
MF Maintenance Factor
LMF^a Luminaire Maintenance Factor

RSMF^a Room Surface Maintenance Factor
LLMF Lamp Lumens 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	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	traffic white	81	048-1597207



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)
90-90-60	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



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