

# SPIO 60 downlight

trim

048-1510417F 048-1597207 002-90787



Project / Type

Notes

Count / Date



### General

Ceiling | Recessed

rotation 360°

white | RAL 9016 <sup>1</sup>

Mounting set traffic white

IP20

477 lm

fixture 40 lm/W <sup>2</sup>

### LED

2700 K

CRI ≥ 90

L95 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 104 | R<sub>f</sub>: 88 | R<sub>f(1-15)</sub>: 89

MR 0.5 | MDER 0.46

### Optical

flood | beam angle 34°

UGR ≤ 10

PstLM ≤ 1.0 <sup>3</sup> | SVM ≤ 0.4 <sup>3</sup>

### 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

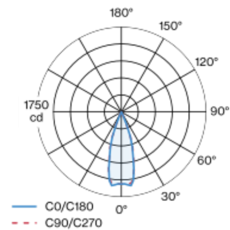
min. ceiling thickness 2 mm | max. ceiling thickness 25 mm

recessed depth 85 mm

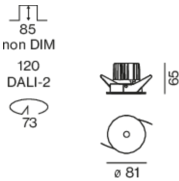
<sup>1</sup> RAL code  
<sup>2</sup> incl. consideration of optical losses & internal control unit losses  
<sup>3</sup> Value of containing product at full load (undimmed)

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



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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 <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 Factor	

<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	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)
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

