

# SPIO 60 adjustable

trim

048-1520517W 048-1597108 002-90787



Project / Type

Notes

Count / Date



## General

Ceiling , Recessed

tilt max 30°

rotation 360°

white , RAL9016 <sup>1</sup>

Mounting set jet black

IP20

685 lm

## LED

3000 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 104 , R<sub>f</sub>: 91 , R<sub>{1-5}</sub>: 92

MR 0.59

MDER 0.54

## Optical

wide flood

beam angle 44°

P<sub>stLM</sub> ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

## Electrical

non DIM

220-240 V

system 14.0 W

inset 11.9 W

12 Vf

1050 mA

PC2

system 49 lm/W<sup>3</sup>

inset 58 lm/W<sup>3</sup>

## Physical

trim

diameter 118 mm

height 68 mm

0.49 kg

## Cutout

diameter 108 mm

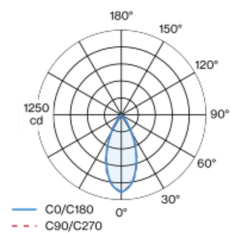
min. ceiling thickness 2 mm

max. ceiling thickness 25 mm

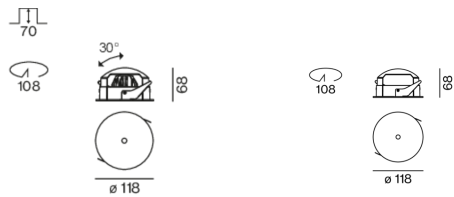
recessed depth 70 mm

Round recessed spotlight in die-cast aluminium; surface white powder coated; installation without tools in mounting set with magnetic attachment; recessed light with wrap around edge; suitable for ceiling thickness of 2-25 mm; 360° rotatable and 30° tiltable; passive cooling of the LEDs through improved heat sink geometry; light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 44° beam; no multiple shadows; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface (only ø 10 mm); degree of protection IP20; PC2; incl. converter, non dimmable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. optical losses and the efficiency of the operating device (converter)

## 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	1	0.99	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 Faktor	

<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	jet black	118	048-1597108



POWER SUPPLY

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



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

