

# SPIO 60 adjustable

trim

048-1520517W 048-1597107 002-90794



Project / Type

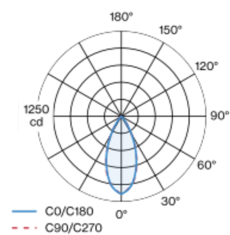
Notes

Count / Date

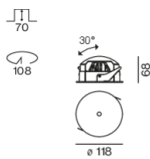


Round recessed spotlight in die-cast aluminium; surface traffic white powder coated; installation without tools in mounting set with magnetic attachment; recessed light with wrap around edge; suitable for ceiling thickness of 2-25 mm; 360° rotatable and 30° tiltable; passive cooling of the LEDs through improved heat sink geometry; light colour 3000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 90$ ; 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  $\varnothing 10$  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



## General

Ceiling | Recessed

tilt max 30°

rotation 360°

traffic white | RAL 9016

Mounting set traffic white

IP20

685 lm

fixture 58 lm/W <sup>1</sup>

## LED

3000 K

CRI  $\geq 90$

L85 / 50000 h

initial MacAdam  $\leq 3$  SDCM

R<sub>g</sub>: 104 | R<sub>f</sub>: 91 | R<sub>(1-15)</sub>: 93

MR 0.59 | MDER 0.54

## Optical

wide flood | beam angle 44°

PstLM  $\leq 1.0$  <sup>2</sup> | SVM  $\leq 0.4$  <sup>2</sup>

## Electrical

non DIM

PC2 | 220-240 V

system 14.0 W | fixture 11.9 W

12 Vf | 1050 mA

## Physical

trim

diameter 118 mm | height 68 mm

0.55 kg

## Cutout

diameter 108 mm

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

recessed depth 70 mm

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

## Installation instructions



## Lighting calculator



# SPIO 60 adjustable

trim

048-1520517W 048-1597107 002-90794



Project / Type

Notes

Count / Date

## 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 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 adjustable

TYPE	COLOUR	Ø (MM)	ARTICLE NUMBER(S)
for intermediate ceilings	traffic white	118	048-1597107



### POWER SUPPLY

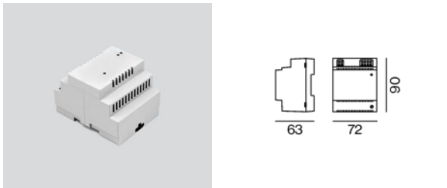
L-W-H (MM)	ARTICLE NUMBER(S)
147-44-22	002-90794



## Optional electrical accessories

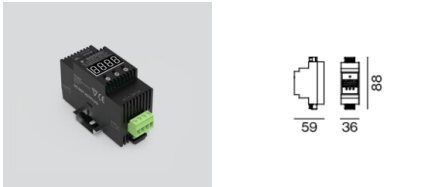
### DIN RAIL POWER SUPPLY

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



### DIN RAIL LED DRIVER

L-W-H (MM)	ARTICLE NUMBER(S)
36-88-59	005-6121030



# SPIO 60 adjustable

trim

048-1520517W 048-1597107 002-90794

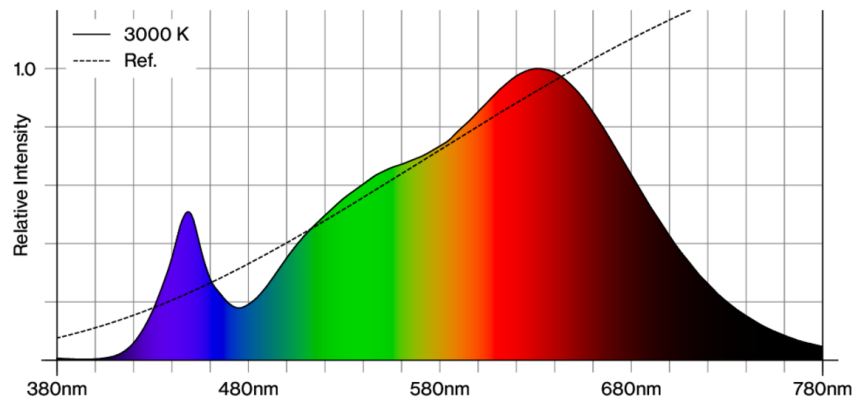


Project / Type

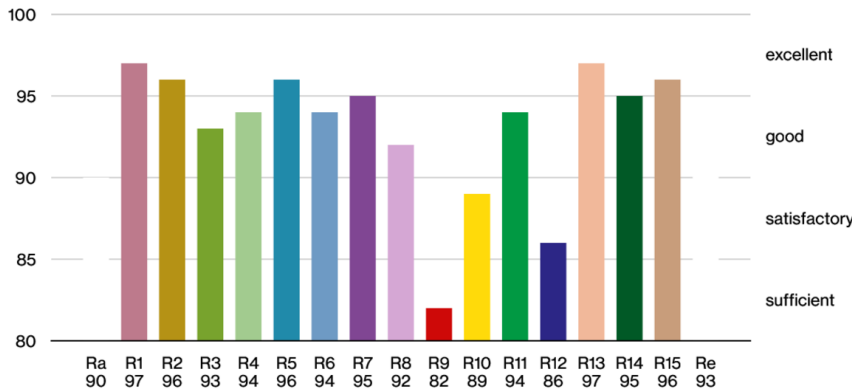
Notes

Count / Date

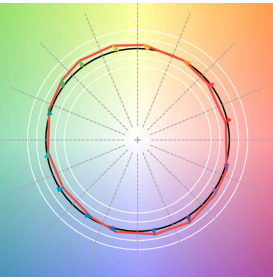
## Colour rendering



CRI/R<sub>a</sub> ≥ 94 R<sub>e</sub> ≥ 93 (3000 K)



## TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

