

# SPIO 60 adjustable

trim

048-1520417F 048-1597107 002-90794



Project / Type

Notes

Count / Date



### General

Ceiling | Recessed

tilt max 30°

rotation 360°

traffic white | RAL 9016

Mounting set traffic white

IP20

455 lm

fixture 38 lm/W <sup>1</sup>

### LED

2700 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 104 | R<sub>f</sub>: 88 | R<sub>{1-15}</sub>: 89

MR 0.5 | MDER 0.46

### Optical

flood | beam angle 34°

UGR ≤ 10

PstLM ≤ 1.0 <sup>2</sup> | SVM ≤ 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

0.54 kg

### Cutout

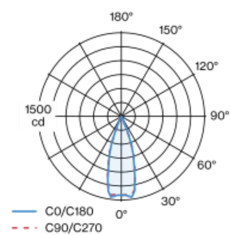
diameter 108 mm

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

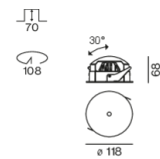
recessed depth 70 mm

Round recessed spotlight in die-cast aluminium; surface 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 2700 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 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



<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



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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 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.

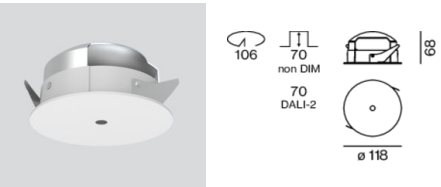
## Circuit Breaker Types

| 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

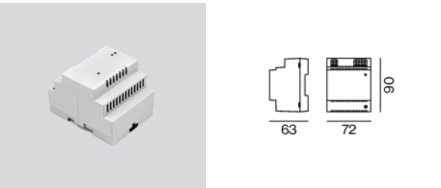
| L-W-H (MM) | ARTICLE NUMBER(S) |
|------------|-------------------|
| 147-44-22  | 002-90794         |



## Optional electrical accessories

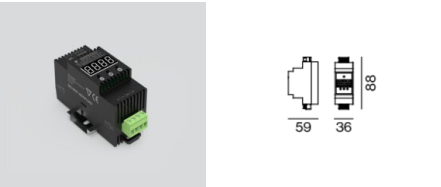
### DIN RAIL POWER SUPPLY

| 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       |



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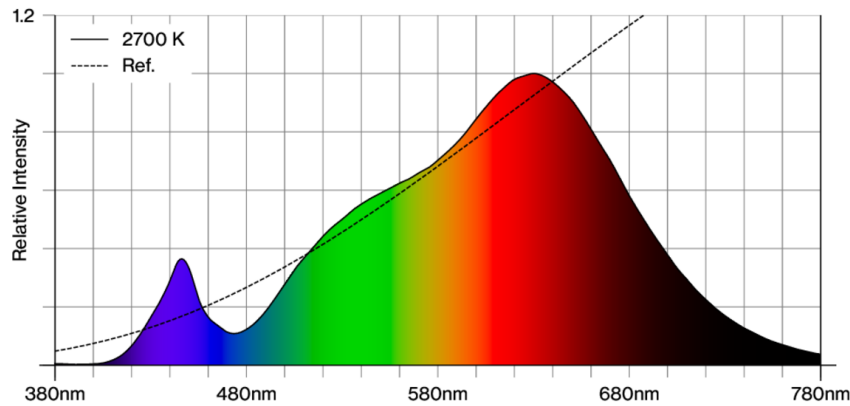


Project / Type

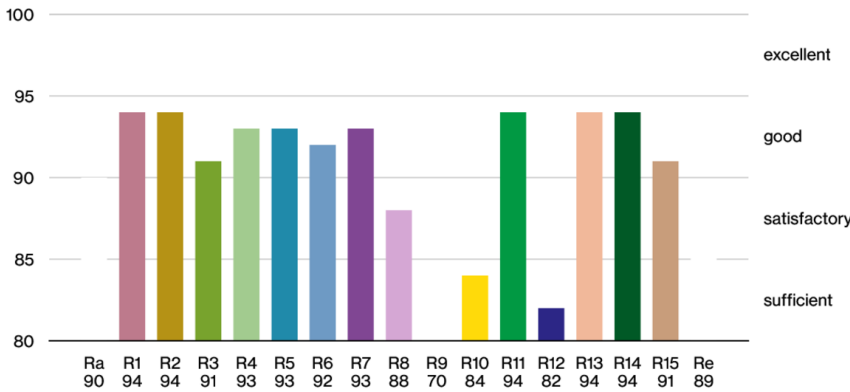
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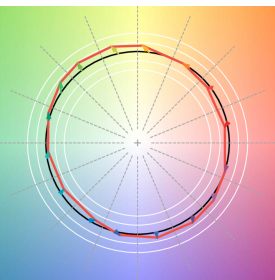
### Colour rendering



### CRI/R<sub>a</sub> ≥ 92 R<sub>e</sub> ≥ 89 (2700 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.

