

# SPIO 20 wallwasher/floor

trimless

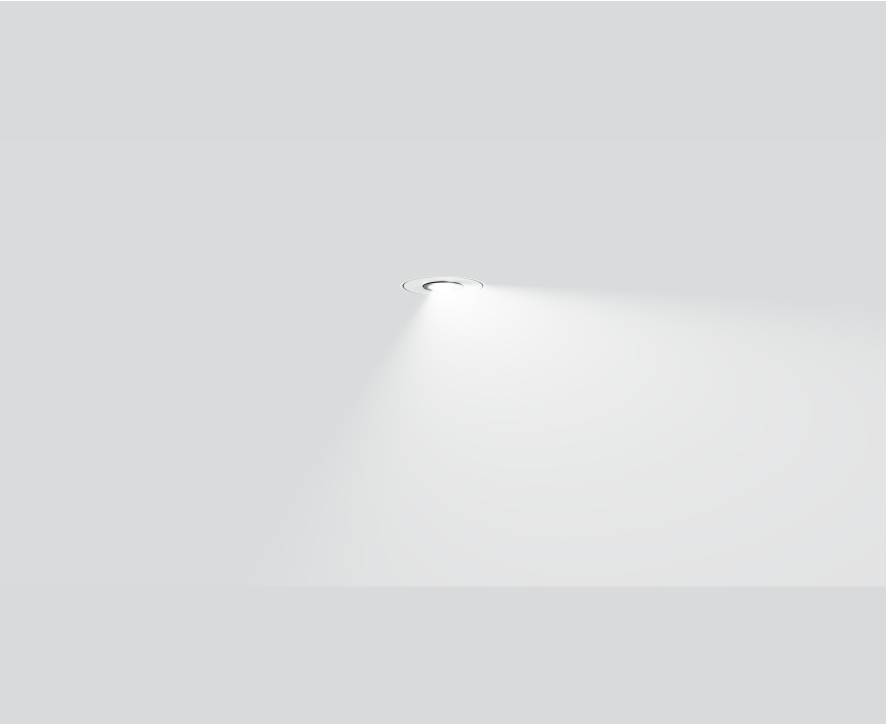
048-17304108W 048-1698107 002-90787



Project / Type

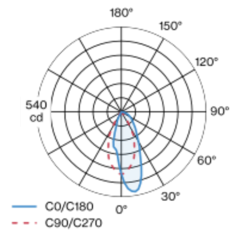
Notes

Count / Date

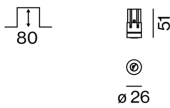


Round recessed spotlight in aluminium; surface white powder coated; installation without tools in mounting set due to patented ball catch system; for trimless installation in plasterboard ceilings, specially designed trim with grooves for better adhesion of smoothing compound; suitable for ceiling thickness of 9-25 mm; special mounting tool for easy installation of the trimless housing available as an accessory; paintable light inset; shadow joint between light inset and mounting set optionally fillable; passive cooling of the LEDs through improved heat sink geometry; light colour 2700 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 90$ ; min. 95% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; with specially computed, asymmetrical reflector for homogeneous lighting intensity; high quality reflector with micro-faceted, aluminum-vaporised surface; no multiple shadows; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface (only  $\varnothing 13$  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

rotation 360°

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

traffic white

IP20

399 lm

fixture 67 lm/W <sup>2</sup>

## LED

2700 K

CRI  $\geq 90$

L95 / 50000 h

initial MacAdam  $\leq 3$  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

wallwasher floor | beam angle 52°

PstLM  $\leq 1.0$  <sup>3</sup> | SVM  $\leq 0.4$  <sup>3</sup>

## Electrical

non DIM

PC2 | 220-240 V

system 7.9 W | fixture 5.9 W

5.6 Vf | 1050 mA

## Physical

trimless

diameter 26 mm | height 51 mm

0.21 kg

## Cutout

diameter 48 mm

min. ceiling thickness 9 mm | max. ceiling thickness 25 mm

recessed depth 80 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)

## Installation instructions



## Lighting calculator



# SPIO 20 wallwasher/floor

trimless

048-17304108W 048-1698107 002-90787



Project / Type

Notes

Count / Date

## 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 trimless

| TYPE                               | COLOUR        | Ø (MM) | ARTICLE NUMBER(S) |
|------------------------------------|---------------|--------|-------------------|
| for plasterboard ceilings 9 –25 mm | traffic white | 56     | 048-1698107       |



### POWER SUPPLY

| L·W·H (MM) | ARTICLE NUMBER(S) |
|------------|-------------------|
| 111-38-28  | 002-90787         |



## Mounting accessories

### SPECIAL MOUNTING TOOL

| TYPE   | Ø (MM) | ARTICLE NUMBER(S) |
|--|--------|-------------------|
| necessary to install mounting housing trimless | 83     | 063-8911110       |



## 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       |

