

# SPIO 20 wallwasher/floor

trimless

048-17305108W 048-1698107 002-90787



Project / Type

Notes

Count / Date



### General

Ceiling , Recessed

rotation 360°

white , RAL9016 <sup>1</sup>

traffic white

IP20

409 lm

### LED

3000 K

CRI ≥ 90

L95 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 104 , R<sub>f</sub>: 91 , R<sub>f(1-5)</sub>: 92

MR 0.59

MDER 0.54

### Optical

wallwasher floor

beam angle 52°

PstLM ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

### Electrical

non DIM

7.9 W

inset 5.9 W

5.6 Vf

1050 mA

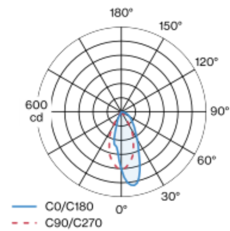
PC2 220-240V

52 lm/W

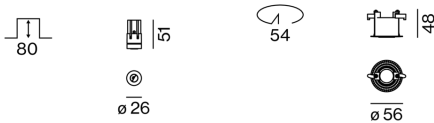
inset 69 lm/W

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 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 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 ø 13 mm); degree of protection IP20; PC2 220-240V; incl. converter, non dimmable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

### Light distribution



### Product drawing



### Physical

trimless

diameter 26 mm

height 51 mm

### 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> 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                            | 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 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 trimless

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



### POWER SUPPLY

| TYPE | L·W·H (MM) | ARTICLE NUMBER(S) |
|------|------------|-------------------|
| 22 W | 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

| 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       |

