

# SASSO 100 square adjustable

semi-recessed

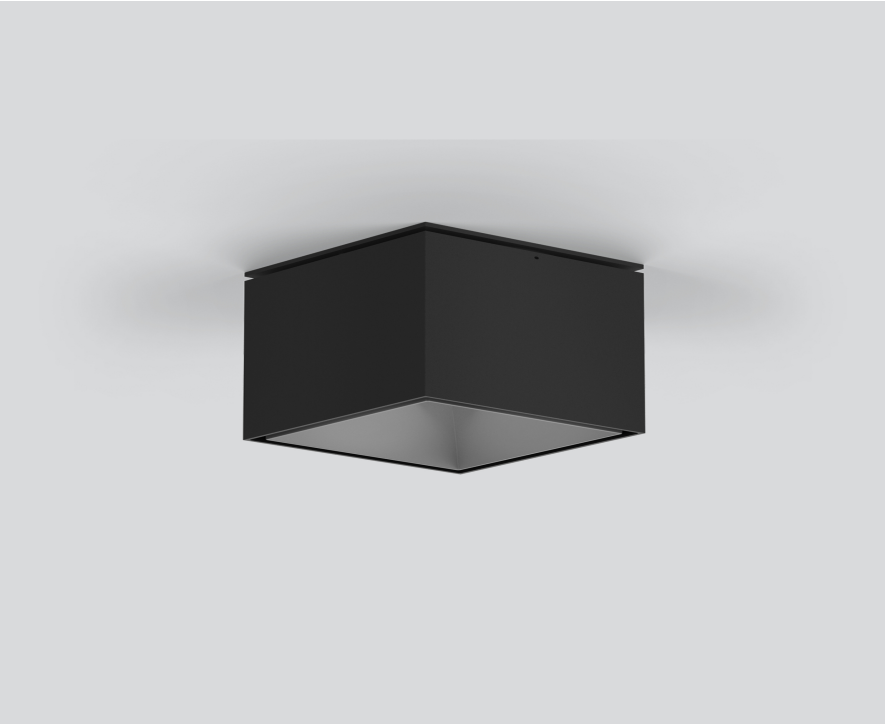
048-33010114W 002-90766



Project / Type

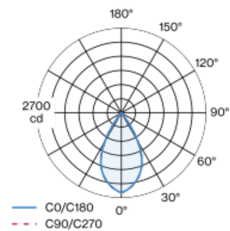
Notes

Count / Date



Square semi-recessed spotlight made of aluminium; surface black powder coated; Inner colour lacquered in matt silver; 20° tiltable; luminaire housing can be attached to mounting plate without tools by interlock; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 56° beam; UGR ≤ 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 1500 cd/m²; degree of protection IP20; PC2; 220-240 V; incl. converter, non dimmable; external converter for ceiling insertion; through wiring connection box, 3-pole or 5-pole, available as an accessory; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



## General

|                               |
|-------------------------------|
| Ceiling   Semi-Recessed       |
| tilt max 20°                  |
| black   RAL 9005 <sup>1</sup> |
| Inner colour matt silver      |
| IP20                          |
| 1870 lm                       |
| fixture 123 lm/W <sup>2</sup> |

## LED

|  |
|--|
| 3000 K   |
| CRI ≥ 90   |
| L80 / 50000 h  |
| initial MacAdam ≤ 2 SDCM   |
| R <sub>g</sub> : 99   R <sub>r</sub> : 90   R <sub>t(1-5)</sub> : 87 |
| MR 0.6   MDER 0.54   |

## Optical

|   |
|---|
| wide flood   beam angle 56°                       |
| UGR ≤ 19   ≥65° <1500 cd/m²                       |
| PstLM ≤ 1.0 <sup>3</sup>   SVM ≤ 0.4 <sup>3</sup> |

## Electrical

|                                |
|--------------------------------|
| non DIM                        |
| PC2   220-240 V                |
| system 17.9 W   fixture 15.2 W |
| 36 Vf   450 mA                 |

## Physical

|  |
|--|
| length 100 mm   width 100 mm   height 115 mm |
| 1.59 kg                                      |

## Cutout

|                       |
|-----------------------|
| diameter 80 mm        |
| recessed depth 100 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



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### Maintenance Factors

| Operating Time [h] | 10 000                       | 20 000 | 30 000            | 40 000                          | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF               | 0.964                        | 0.923  | 0.884             | 0.847                           | 0.811  |
| 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                            | 18                 |
| B16                            | 30                 |
| C10                            | 23                 |
| C16                            | 36                 |

### Components

#### POWER SUPPLY

|            |                   |
|------------|-------------------|
| L-W-H (MM) | ARTICLE NUMBER(S) |
| 143-43-30  | 002-90766         |

### 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       |



### Optional electrical accessories

#### POWER SUPPLY PREWIRED

|                   |                   |
|-------------------|-------------------|
| TYPE              | ARTICLE NUMBER(S) |
| with junktion box | 002-90767A        |
| with junktion box | 002-90789A        |
| with junktion box | 002-90776A        |
| with junktion box | 002-90766A        |
| with junktion box | 002-90780A        |
| with junktion box | 002-90774A        |

### Electrical accessories

#### THROUGH WIRING CONNECTION BOX

|  |            |                   |
|--|------------|-------------------|
| TYPE                                     | L-W-H (MM) | ARTICLE NUMBER(S) |
| non DIM cable ø 4 – 12 mm, Linect®-Ready | 105-58-30  | 005-2531110       |
| DALI cable ø 4 – 12 mm, Linect®-Ready    | 105-58-30  | 005-2551110       |

