

# SASSO 100 square downlight

trim

048-2710914F 048-2797318 002-90780



Project / Type

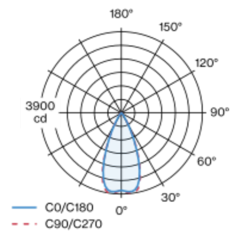
Notes

Count / Date



Recessed square spotlight in die-cast aluminium; 1 lamp; surface matt silver; installation without tools in mounting set due to patented ball catch system; square installation housing; with trim jet black; suitable for ceiling thickness of 2-25 mm; 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 2700 K; binning initial MacAdam  $\leq 2$  SDCM; CRI  $\geq 90$ ; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 45° beam; UGR  $\leq 16$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65°  $\leq 3000$  cd/m<sup>2</sup>; degree of protection from below IP44 (from above IP20); PC2; 220-240 V; incl. converter, non dimmable; 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 , Recessed

matt silver

Mounting set jet black

front IP44 , back IP20

2270 lm

fixture 100 lm/W<sup>1</sup>

## LED

2700 K

CRI  $\geq 90$

L80 / 50000 h

initial MacAdam  $\leq 2$  SDCM

R<sub>g</sub>: 97 , R<sub>f</sub>: 91 , R<sub>(1-15)</sub>: 87

MR 0.52

MDER 0.47

## Optical

flood

beam angle 45°

UGR  $\leq 16$  ,  $\geq 65^\circ$  <3000 cd/m<sup>2</sup>

## Electrical

non DIM

220-240 V

system 26.7 W

fixture 22.7 W

36 V<sub>f</sub>

650 mA

PC2

## Physical

trim

length 118 mm

width 118 mm

height 75 mm

0.49 kg

## Cutout

length 112 mm

width 112 mm

min. ceiling thickness 2 mm

max. ceiling thickness 25 mm

recessed depth 80 mm

<sup>1</sup> incl. consideration of optical losses & internal control unit losses

## Installation instructions



## Lighting calculator



# SASSO 100 square downlight

trim

048-2710914F 048-2797318 002-90780



Project / Type

Notes

Count / Date

## 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 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                            | 33                 |
| B16                            | 53                 |
| B20                            | 67                 |
| B25                            | 83                 |
| C10                            | 40                 |
| C16                            | 64                 |
| C20                            | 80                 |
| C25                            | 100                |

## Components

### MOUNTING SET with trim

|                                   |                     |                          |                                  |
|-----------------------------------|---------------------|--------------------------|----------------------------------|
| TYPE<br>for intermediate ceilings | COLOUR<br>jet black | L-W-H (MM)<br>118-118-35 | ARTICLE NUMBER(S)<br>048-2797318 |
|-----------------------------------|---------------------|--------------------------|----------------------------------|



### CONVERTER

|              |                         |                                |
|--------------|-------------------------|--------------------------------|
| TYPE<br>31 W | L-W-H (MM)<br>143-43-30 | ARTICLE NUMBER(S)<br>002-90780 |
|--------------|-------------------------|--------------------------------|



## Mounting accessories

### PRIMED CONCRETE MOUNTING HOUSING

|                           |                           |                                  |
|---------------------------|---------------------------|----------------------------------|
| COLOUR<br>white aluminium | L-W-H (MM)<br>614-307-120 | ARTICLE NUMBER(S)<br>048-2695110 |
|---------------------------|---------------------------|----------------------------------|



## Optional electrical accessories

### DIN RAIL POWER SUPPLY

|               |                        |                                  |
|---------------|------------------------|----------------------------------|
| TYPE<br>160 W | L-W-H (MM)<br>72-90-63 | ARTICLE NUMBER(S)<br>005-6520210 |
|---------------|------------------------|----------------------------------|



### DIN RAIL LED DRIVER

|  |                        |                                  |
|--|------------------------|----------------------------------|
| TYPE<br>DALI-2   200-1050 mA   2 x 42W | L-W-H (MM)<br>36-88-59 | ARTICLE NUMBER(S)<br>005-6121030 |
|--|------------------------|----------------------------------|



# SASSO 100 square downlight

trim

048-2710914F 048-2797318 002-90780



Project / Type

Notes

Count / Date

## Optional electrical accessories

### POWER SUPPLY PREWIRED

| TYPE                        | ARTICLE NUMBER(S) |
|-----------------------------|-------------------|
| with junktion box   DALI-2  | 002-90767A        |
| with junktion box   DALI-2  | 002-90789A        |
| with junktion box   DALI-2  | 002-90776A        |
| with junktion box   non DIM | 002-90766A        |
| with junktion box   non DIM | 002-90780A        |
| with junktion box   non DIM | 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       |

