

# SASSO 100 square downlight

trim

048-2710014M 048-2797318 002-90767

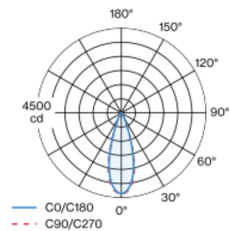


|                |
|----------------|
| Project / Type |
| Notes          |
| Count / Date   |

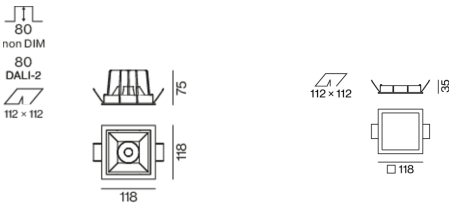


Recessed square spotlight in die-cast aluminium; 1 lamp; surface matt silver; installation without tools in mounting set due to patented ball catch system; square installation housing; with trim jet black; suitable for ceiling thickness of 2-25 mm; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3000 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  $33^\circ \times 34^\circ$  beam; UGR  $\leq 16$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 3000$  cd/m<sup>2</sup>; degree of protection from below IP44 (from above IP20); PC2; 220-240 V; incl. DALI-2 converter; 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        |
| 1540 lm                       |
| fixture 101 lm/W <sup>1</sup> |

## LED

|  |
|--|
| 3000 K   |
| CRI $\geq 90$  |
| L80 / 50000 h  |
| initial MacAdam $\leq 2$ SDCM  |
| R <sub>g</sub> : 99 , R <sub>f</sub> : 90 , R <sub>(1-15)</sub> : 87 |
| MR 0.6   |
| MDER 0.54  |

## Optical

|  |
|--|
| medium   |
| beam angle $33^\circ \times 34^\circ$                    |
| UGR $\leq 16$ , $\geq 65^\circ < 3000$ cd/m <sup>2</sup> |
| PstLM $\leq 1.0$ <sup>2</sup>                            |
| SVM $\leq 0.4$ <sup>2</sup>                              |

## Electrical

|                |
|----------------|
| DALI-2         |
| 220-240 V      |
| system 17.9 W  |
| fixture 15.2 W |
| 36 Vf          |
| 450 mA         |
| PC2            |
| 1 DALI Addr.   |

## Physical

|               |
|---------------|
| trim          |
| length 118 mm |
| width 118 mm  |
| height 75 mm  |
| 0.54 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  
<sup>2</sup> Value of containing product at full load (undimmed)



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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 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                            | 18                 |
| B16                            | 30                 |
| C10                            | 23                 |
| C16                            | 36                 |

## Components

### MOUNTING SET with trim

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



### POWER SUPPLY

|            |                   |
|------------|-------------------|
| L-W-H (MM) | ARTICLE NUMBER(S) |
| 143-43-30  | 002-90767         |

## Mounting accessories

### PRIMED CONCRETE MOUNTING HOUSING

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



## 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       |



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## 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       |

