

# SASSO 100 square adjustable

trim

048-2730219M 048-2797318 002-90780



Project / Type

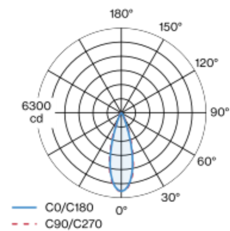
Notes

Count / Date



Recessed square spotlight in die-cast aluminium; 1 lamp; surface gold; 30° tiltable; 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 3500 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 31°x33° 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 IP40 (from above IP20); PC2 220-240V; 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  
tilt max 30°  
gold , RAL260-M <sup>1</sup>  
Mounting set jet black  
front IP40 , back IP20  
2050 lm

## LED

3500 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>: 89  
MR 0.7  
MDER 0.64

## Optical

medium  
beam angle 31°x33°  
UGR < 16 ,  $\geq 65^\circ$  <3000 cd/m<sup>2</sup>

## Electrical

non DIM  
system 26.7 W  
inset 22.7 W  
36 Vf  
650 mA  
PC2 220-240V  
system 77 lm/W<sup>2</sup>  
inset 90 lm/W<sup>3</sup>

## Physical

trim  
length 118 mm  
width 118 mm  
height 95 mm  
0.49 kg

## Cutout

length 112 mm  
width 112 mm  
min. ceiling thickness 2 mm  
max. ceiling thickness 25 mm  
recessed depth 100 mm

<sup>1</sup> RAL code  
<sup>2</sup> incl. optical losses and the efficiency of the operating device (converter)  
<sup>3</sup> incl. optical losses

## 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                            | 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 |
|---------------------------|---------------------------|----------------------------------|



## Electrical accessories

### THROUGH WIRING CONNECTION BOX

|                                   |                         |                                  |
|-----------------------------------|-------------------------|----------------------------------|
| TYPE<br>non DIM cable ø 4 – 12 mm | L·W·H (MM)<br>105·58·30 | ARTICLE NUMBER(S)<br>005-2531110 |
| DALI cable ø 4 – 12 mm            | 105·58·30               | 005-2551110                      |



## 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 |
|--|------------------------|----------------------------------|



[‘048-2730219M 048-2797318 002-90780’] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.  
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