

# SASSO 100 square downlight

trim

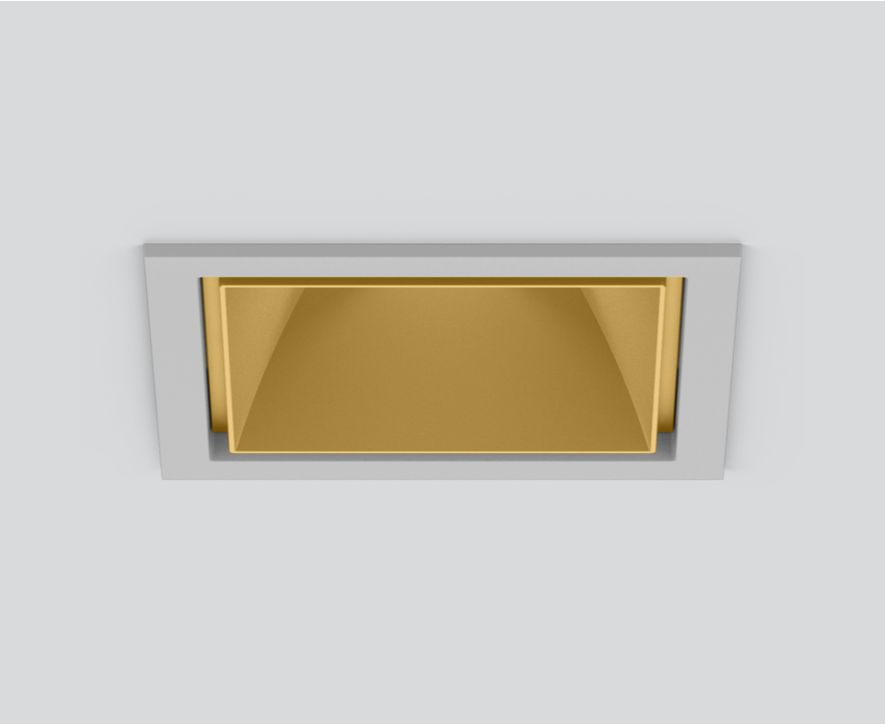
048-2710919F 048-279731G 002-90766



Project / Type

Notes

Count / Date



220-240V

IP20  
IP44

X-PERT

X-PERT

General

Ceiling , Recessed

gold , RAL260-M<sup>1</sup>

Mounting set white aluminium

front IP44 , back IP20

1630 lm

LED

2700 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

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

MR 0.52

MDER 0.47

Optical

flood

beam angle 45°

UGR < 16 , ≥65° <1500 cd/m<sup>2</sup>

PstLM ≤ 1.0<sup>2</sup>

SVM ≤ 0.4<sup>2</sup>

Recessed square spotlight in die-cast aluminium; 1 lamp; surface gold; installation without tools in mounting set due to patented ball catch system; square installation housing; with trim white aluminium; 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 ≤ 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 45° beam; UGR ≤ 16; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 1500 cd/m<sup>2</sup>; degree of protection from below IP44 (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;

Electrical

non DIM

system 17.9 W

inset 15.2 W

36 Vf

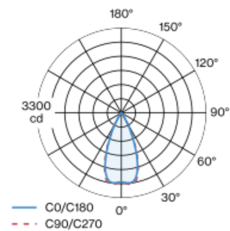
450 mA

PC2 220-240V

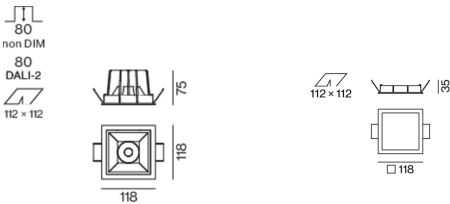
system 91 lm/W<sup>3</sup>

inset 107 lm/W<sup>4</sup>

## Light distribution



## Product drawing



Physical

trim

length 118 mm

width 118 mm

height 75 mm

0.51 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> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. optical losses and the efficiency of the operating device (converter)  
<sup>4</sup> incl. optical losses



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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                            | 22                 |
| B16                            | 36                 |
| C10                            | 37                 |
| C16                            | 60                 |

## Components

### MOUNTING SET with trim

| TYPE                      | COLOUR          | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------------------------|-----------------|------------|-------------------|
| for intermediate ceilings | white aluminium | 118-118-35 | 048-279731G       |



### CONVERTER

| TYPE | ARTICLE NUMBER(S) |
|------|-------------------|
| 21 W | 002-90766         |

## Mounting accessories

### PRIMED CONCRETE MOUNTING HOUSING

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



## Electrical accessories

### THROUGH WIRING CONNECTION BOX

| TYPE                      | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------------------------|------------|-------------------|
| non DIM cable ø 4 – 12 mm | 105-58-30  | 005-253110        |
| DALI cable ø 4 – 12 mm    | 105-58-30  | 005-255110        |



## 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       |

