

SPADO 150 square downlight

trim

049-31526370



Project / Type

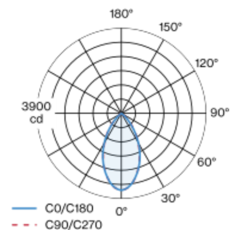
Notes

Count / Date

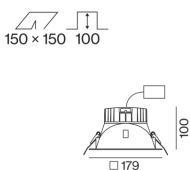


Recessed square spotlight in die-cast aluminium; surface white powder coated; with trim; suitable for ceiling thickness of 2-25 mm; installation without tools using snap spring closure; passive cooling of the LEDs through improved heat sink geometry; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80 ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; reflector made of polycarbonate, polished chrome; symmetric radiation characteristic with 56° beam; recessed luminaire plane; degree of protection from below IP44 (from above IP20); PC2; 220-240 V; incl. DALI-2 converter; external battery converter for ceiling insertion, through-wiring suitable; operating device suitable for use with a central battery system; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



General

Ceiling , Recessed

white , RAL 9016 ¹

front IP44 , back IP20

3170 lm

LED

4000 K

CRI ≥ 80

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

MR 0.72

MDER 0.66

Optical

wide flood

beam angle 56°

$\geq 65^\circ < 1500 \text{ cd/m}^2$

$\text{PstLM} \leq 1.0$ ²

$\text{SVM} \leq 0.4$ ²

Electrical

DALI-2

220-240 V

system 27.5 W

system 115 lm/W³

PC2

1 DALI Addr.

Physical

trim

length 179 mm

width 179 mm

height 104 mm

0.8 kg

Cutout

length 150 mm

width 150 mm

min. ceiling thickness 2 mm

max. ceiling thickness 25 mm

recessed depth 110 mm

¹ RAL code ² Value of containing product at full load (undimmed)
³ incl. consideration of optical losses, internal control unit losses & operating device efficiency

Installation instructions



Lighting calculator



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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.95	0.93	0.91	0.9
LSF	1	1	1	1	1
MF	LMF × RSMF × LLMF × LSF		RSMF ^a	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF ^a	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

^a 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	19
B13	24
B16	31
B20	40
C10	31
C13	40
C16	51
C20	66

Mounting accessories

EXPOSED CONCRETE MOUNTING ACCESSORY

L·W·H (MM)	ARTICLE NUMBER(S)
400·260·160	049-3192210



PRIMED CONCRETE MOUNTING ACCESSORY

ARTICLE NUMBER(S)
049-3191410

