

# SPADO 150 square downlight

trim

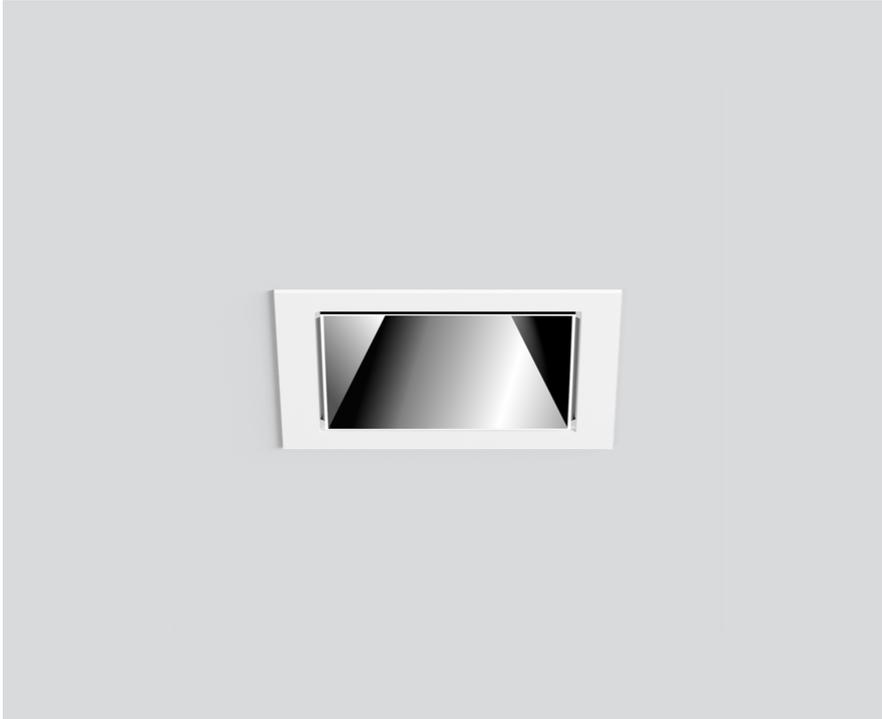
049-31515170



Project / Type

Notes

Count / Date



## General

Ceiling , Recessed

white , RAL 9016 <sup>1</sup>

front IP44 , back IP20

1830 lm

## LED

3000 K

CRI ≥ 80

L80 / 50000 h

initial MacAdam ≤ 3 SDCM

MR 0.54

MDER 0.49

## Optical

wide flood

beam angle 56°

UGR < 19 , ≥65° <1500 cd/m<sup>2</sup>

PstLM ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

## Electrical

non DIM

220-240 V

system 16.4 W

system 112 lm/W<sup>3</sup>

PC2

## Physical

trim

length 179 mm

width 179 mm

height 104 mm

0.8 kg

## Cutout

length 150 mm

width 150 mm

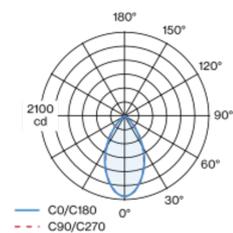
min. ceiling thickness 2 mm

max. ceiling thickness 25 mm

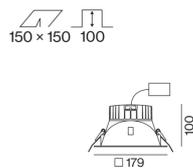
recessed depth 110 mm

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 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; min. 80% 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; UGR ≤ 19; 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; 220-240 V; incl. converter, non dimmable; external 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



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)

<sup>3</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: 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	0.97	0.93	0.89	0.86	0.82
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	34
B13	43
B16	54
B20	67
C10	56
C13	72
C16	91
C20	112

## Mounting accessories

### EXPOSED CONCRETE MOUNTING ACCESSORY

L·W·H (MM)  
400·260·160

ARTICLE NUMBER(S)  
049-3192210



### PRIMED CONCRETE MOUNTING ACCESSORY

ARTICLE NUMBER(S)  
049-3191410

