

# SPADO 150 round downlight

trim

049-31215180



Project / Type

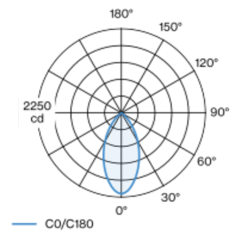
Notes

Count / Date

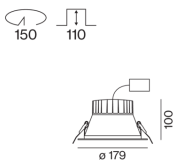


Round recessed spotlight in die-cast aluminium; surface black powder coated; with trim; suitable for ceiling thickness of 2-25 mm; installation without tools using snap spring closure; passive cooling of the LEDs through improved heat sink geometry; light colour 3000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 80$ ; 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 52° beam; recessed luminaire plane; UGR  $\leq 19$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65°  $\leq 1500$  cd/m<sup>2</sup>; degree of protection from below IP44 (from above IP20); PC2 220-240V; 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



## General

Ceiling , Recessed  
black , RAL9005 <sup>1</sup>  
front IP44 , back IP20  
1810 lm

## LED

3000 K  
CRI  $\geq 80$   
L80 / 50000 h  
initial MacAdam  $\leq 3$  SDCM  
MR 0.54  
MDER 0.49

## Optical

beam angle 52°  
UGR  $< 19$  ,  $\geq 65^\circ < 1500$  cd/m<sup>2</sup>  
PstLM  $\leq 1.0$  <sup>2</sup>  
SVM  $\leq 0.4$  <sup>2</sup>

## Electrical

non DIM  
16.4 W  
PC2 220-240V  
110 lm/W

## Physical

trim  
diameter 179 mm  
height 104 mm  
0.8 kg

## Cutout

diameter 150 mm  
min. ceiling thickness 2 mm  
max. ceiling thickness 25 mm  
recessed depth 110 mm

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

## 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)	ARTICLE NUMBER(S)
295-295-160	049-3191210



#### PRIMED CONCRETE MOUNTING ACCESSORY

ARTICLE NUMBER(S)
049-3191410

