

# SPADO 150 round downlight

trim

049-31215170



Project / Type

Notes

Count / Date



## General

Ceiling , Recessed

white , RAL 9016 <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

wide flood

beam angle 52°

UGR  $\leq$  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

220-240 V

system 16.4 W

system 110 lm/W<sup>3</sup>

PC2

## Physical

trim

diameter 179 mm

height 104 mm

0.8 kg

## Cutout

diameter 150 mm

min. ceiling thickness 2 mm

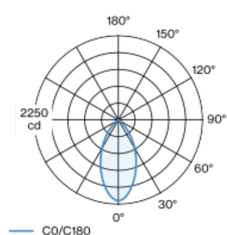
max. ceiling thickness 25 mm

recessed depth 110 mm

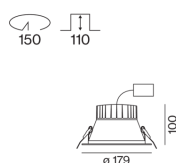
<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)

<sup>3</sup> incl. consideration of optical losses, internal control unit losses  
& operating device efficiency

## Light distribution



## Product drawing



## 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

