



**PROJECT** \_\_\_\_\_

**TYPE** \_\_\_\_\_

**NOTES** \_\_\_\_\_

**QUANTITY** \_\_\_\_\_

**DATE** \_\_\_\_\_



Round ceiling recessed downlight made from die-cast aluminium; surface White Matt; powder coated, matt texture; RAL 9010; installation without tools using wire springs; suitable for ceiling thickness of 4-38 mm; recessed depth 90 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 2700 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; beam angle 15°; degree of protection from below IP44; from above IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



**GENERAL**

Ceiling \_\_\_\_\_  
 Recessed \_\_\_\_\_  
 White Matt \_\_\_\_\_  
 RAL 9010 <sup>a</sup> \_\_\_\_\_  
 front IP44 \_\_\_\_\_  
 back IP20 \_\_\_\_\_  
 Interior \_\_\_\_\_  
 CIE flux code: 92 97 99 100 \_\_\_\_\_  
 100 \_\_\_\_\_

**OUTPUT**

350mA \_\_\_\_\_  
 440 lm \_\_\_\_\_  
 6 W \_\_\_\_\_  
 500mA \_\_\_\_\_  
 600 lm \_\_\_\_\_  
 9 W \_\_\_\_\_

**LED**

2700 K \_\_\_\_\_  
 CRI ≥ 90 \_\_\_\_\_  
 initial MacAdam ≤ 2 SDCM \_\_\_\_\_

**OPTICAL**

Narrow \_\_\_\_\_  
 beam angle 15° \_\_\_\_\_

**ELECTRICAL**

excl. driver \_\_\_\_\_  
 17 V \_\_\_\_\_  
 inset 6.0 / 9.0 W \_\_\_\_\_  
 Class 3 \_\_\_\_\_

**PHYSICAL**

diameter 84 mm \_\_\_\_\_  
 height 90 mm \_\_\_\_\_  
 0.17 kg \_\_\_\_\_  
 wire springs \_\_\_\_\_

**CUTOUT**

diameter 76-79 mm \_\_\_\_\_  
 min. ceiling thickness 4 mm \_\_\_\_\_  
 max. ceiling thickness 38 mm \_\_\_\_\_  
 recessed depth 90 mm \_\_\_\_\_

<sup>a</sup> Colour may deviate slightly due to production conditions.



## Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.96	0.92	0.89	0.85	0.82
LSF	1	1	1	1	1

MF  $LMF \times RSMF \times LLMF \times LSF$

MF Maintenance Factor

LMF<sup>a</sup> Luminaire Maintenance Factor

RSMF<sup>a</sup> Room Surface Maintenance Factor

LLMF Lamp Lumens Maintenance Factor

LSF Lamp Survival Factor

<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.

## ELECTRICAL ACCESSORIES

### Driver

Type	Voltage	L·W·H (MM)	Item number
10W   500mA   11-20V	11-20V	100-43-23	90214405
10W   500mA   13-20V	13-20V	65-39-20	90214406
24W   500mA   5-49V   IP68	5-49V	122-54-26	90214702
10W   500mA   3-20V   phase-cut dim	3-20V	102-49-29	90224402
10W   500mA   12-21V   phase-cut dim	12-21V	115-41-25	90224403
20W   500mA   3-40V   DALI	3-40V	116-40-5-22	90244604
24W   500mA   6-49V   DALI-2	6-49V	143-43-30	90244701