



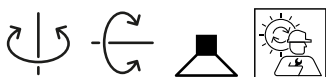
## PROJECT

## TYPE

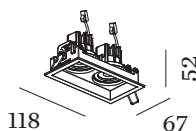
## NOTES

## QUANTITY

## DATE



Rectangular ceiling recessed downlight made from die-cast aluminium; adjustable; surface White Matt; powder coated, matt texture; RAL 9010; installation without tools using wire springs; suitable for ceiling thickness of 2-22 mm; recessed depth 65 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K;  $\leq 2$  SDCM (initial MacAdam); CRI  $\geq 90$ ; beam angle 31°; 355° rotatable and 25° tiltable; degree of protection IP20; Class 3; IC rated; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



## LUMINAIRE

Ceiling  
Recessed  
tilt max 25 °  
rotation 355 °  
White Matt  
RAL 9010 <sup>a</sup>  
IP20  
IC rated  
Interior  
1160 lm / 350mA

## LED Module

3000 K  
CRI  $\geq 90$   
L70 / 55000h  
 $\leq 2$  SDCM (initial MacAdam)  
670 lm / 350mA  
109 lm/W <sup>b</sup>  
6.1 W <sup>b</sup>

## Optical

Medium (standard)  
beam angle 31°  
UGR  $\leq 16$   
CIE flux code: 97 100 100 100  
100  
 $\geq 65^\circ < 3000 \text{ cd/m}^2$

## Electrical

excl. driver  
17 V  
total insets 12.3 W  
Class III  
Standard

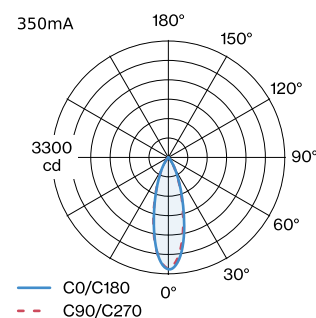
## Physical

length 118 mm  
width 67 mm  
height 52 mm  
0.15 kg  
wire springs

## Cutout

length 54 mm  
width 110 mm  
min. ceiling thickness 2 mm  
max. ceiling thickness 22 mm  
recessed depth 65 mm

## LIGHT DISTRIBUTION



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

<sup>b</sup> Without electrical and optical losses



## Maintenance Factor

| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.92   | 0.87   | 0.83   | 0.79   | 0.75   |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF LMF × RSMF × LLMF × 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                                   | Colour | Voltage | L·W·H (MM) | Item number |
|----------------------------------------|--------|---------|------------|-------------|
| 6W   350mA   8.6-18V                   |        | 8.6-18V | 67-39-22   | 90213303    |
| 10W   350mA   13-26V   phase-cut dim   |        | 13-26V  | 115-41-25  | 90223406    |
| 14W   350mA   10-40V   DALI-2 push dim |        | 10-40V  | 166-29-21  | 90243502    |