



**PROJECT**

**TYPE**

**NOTES**

**QUANTITY**

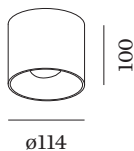
**DATE**



IP65



Cylindrical ceiling surface mounted downlight made from die-cast aluminium; surface Black Matt; powder coated; matt texture; RAL 9011; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 2000 - 3000 K colour warm dimming;  $\leq 3$  SDCM (initial MacAdam); CRI  $\geq 90$ ; 220 - 240 V; degree of protection IP65; Class I; optional single inner cover available; light source replaceable by Wever & Ducré or by a professional with explicit authorization; control gear replaceable by end-user;



**LUMINAIRE**

Ceiling  
Surface  
Black Matt  
RAL 9011<sup>a</sup>  
IP65  
Exterior  
405 lm

**LED Module**

colour warm dimming  
2000 - 3000 K  
CRI  $\geq 90$   
L70 / 50000h  
 $\leq 3$  SDCM (initial MacAdam)  
545 lm  
90 lm/W<sup>b</sup>

**Optical**

Medium (standard)  
beam angle 21°  
CIE flux code: 92 99 100 100 100

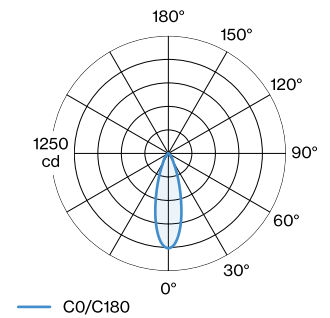
**Electrical**

phase-cut dim  
220 - 240 V  
system 8.1 W  
Class I

**Physical**

diameter 114 mm  
height 100 mm  
0.63 kg

**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               | 0.95   | 0.91   | 0.86   | 0.82   | 0.77   |
| 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.

## OPTICAL ACCESSORIES

### Single Inner Cover

| Type           | Colour            | Voltage | Ø-H (MM) | Item number |
|----------------|-------------------|---------|----------|-------------|
| RAY   max. 10W | Anthracite Grey   |         | 67-54    | 911041A1    |
| RAY   max. 10W | Black             |         | 67-54    | 911041B1    |
| RAY   max. 10W | Dark Grey Texture |         | 67-54    | 911041D1    |
| RAY   max. 10W | White             |         | 67-54    | 911041W1    |