



PROJECT

TYPE

NOTES

QUANTITY

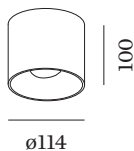
DATE



IP65



Cylindrical ceiling surface mounted downlight made from die-cast aluminium; surface White Matt; powder coated; matt texture; RAL 9010; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 2000 - 3000 K colour warm dimming; ≤ 3 SDCM (initial MacAdam); CRI ≥ 90 ; 220 - 240 V; degree of protection IP65; Class 1; 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
White Matt
RAL 9010 ^a
IP65
Exterior
420 lm

LED Module

colour warm dimming
2000 - 3000 K
CRI ≥ 90
L70 / 50000h
 ≤ 3 SDCM (initial MacAdam)
545 lm
90 lm/W ^b

Optical

Medium (standard)
beam angle 21°
UGR ≤ 13
CIE flux code: 92 99 100 100
100
 $\geq 65^\circ < 1500 \text{ cd/m}^2$

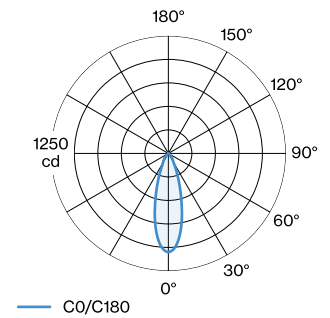
Electrical

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

Physical

diameter 114 mm
height 100 mm
0.63 kg

LIGHT DISTRIBUTION



^a Colour may deviate slightly due to production conditions

^b 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^a Luminaire Maintenance Factor

RSMF^a Room Surface Maintenance Factor

LLMF Lamp Lumens Maintenance Factor

LSF Lamp Survival Factor

^aAccording 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