



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

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

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

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

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



**GENERAL**

Ceiling \_\_\_\_\_  
 Surface \_\_\_\_\_  
 Black Matt \_\_\_\_\_  
 RAL 9005 <sup>a</sup> \_\_\_\_\_  
 IP65 \_\_\_\_\_  
 Exterior \_\_\_\_\_  
 470 lm \_\_\_\_\_  
 CIE flux code: 95 100 100 100 \_\_\_\_\_  
 100 \_\_\_\_\_

**LED**

colour warm dimming \_\_\_\_\_  
 2000 K - 3000 K \_\_\_\_\_  
 CRI ≥ 90 \_\_\_\_\_  
 initial MacAdam ≤ 3 SDCM \_\_\_\_\_

**OPTICAL**

Standard \_\_\_\_\_  
 beam angle 21° \_\_\_\_\_

**ELECTRICAL**

phase-cut dim \_\_\_\_\_  
 220 - 240 V \_\_\_\_\_  
 system 8.0 W \_\_\_\_\_  
 Class 1 \_\_\_\_\_

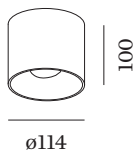
**PHYSICAL**

diameter 114 mm \_\_\_\_\_  
 height 100 mm \_\_\_\_\_  
 0.63 kg \_\_\_\_\_



Cylindrical ceiling surface mounted downlight made from die-cast aluminium; surface Black Matt; powder coated; matt texture; RAL 9005; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 2000 K - 3000 K colour warm dimming; binning initial MacAdam ≤ 3 SDCM; 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;

<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	0.95	0.91	0.86	0.82	0.77
LSF	1	1	1	1	1

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