



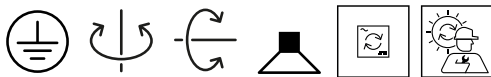
**PROJECT**

**TYPE**

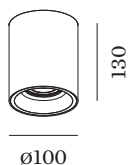
**NOTES**

**QUANTITY**

**DATE**



Cylindrical ceiling surface mounted downlight made from die-cast aluminium; adjustable; surface Bronze + Black Matt; wet painted, matt smooth; RAL 7013; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 3000 K;  $\leq 2$  SDCM (initial MacAdam); CRI  $\geq 90$ ; beam angle 56°; 355° rotatable and 25° tiltable; degree of protection IP20; Class I; driver included; light source replaceable by Wever & Ducré or by a professional with explicit authorization; control gear replaceable by end-user;



**LUMINAIRE**

Ceiling  
Surface  
tilt max 25 °  
rotation 355 °  
Bronze + Black Matt  
RAL 7013 <sup>a</sup>  
IP20  
Interior  
940 lm

**LED Module**

3000 K  
CRI  $\geq 90$   
L80 / 50000h  
 $\leq 2$  SDCM (initial MacAdam)  
1062 lm  
121 lm/W <sup>b</sup>

**Optical**

Wide  
beam angle 56°  
CIE flux code: 89 99 100 100  
100

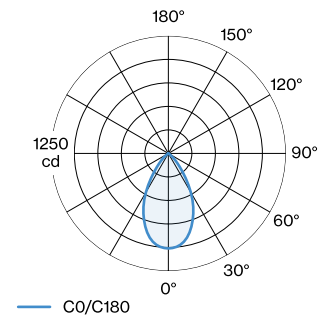
**Electrical**

phase-cut dim  
220 - 240 V  
system 12.2 W  
Class I

**Physical**

diameter 100 mm  
height 130 mm  
0.65 kg

**LIGHT DISTRIBUTION**



<sup>a</sup> Colour may deviate slightly due to production conditions  
<sup>b</sup> Without electrical and optical losses



## CONE DIAGRAM

wide 58°

h (m)	E0° (lx)	ø (m)
1	1010	1.11
2	250	2.23
3	110	3.34
4	60	4.46
5	40	5.57

## Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.96	0.92	0.88	0.85	0.81
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.

## OTHER ACCESSORIES

### Metal spring clip

Type	Colour	Voltage	Ø (MM)	Item number
MR16   LED   PAR16   max. 12W			59	90019700

### Spring clip

Type	Colour	Voltage	Ø (MM)	Item number
MR16   LED   PAR16   max. 12W	Black		59	900198B0
MR16   LED   PAR16   max. 12W	Gold		59	900198G0
MR16   LED   PAR16   max. 12W	Champagne		59	900198M0
MR16   LED   PAR16   max. 12W	Bronze		59	900198Q0
MR16   LED   PAR16   max. 12W	Silver		59	900198S0
MR16   LED   PAR16   max. 12W	White		59	900198W0