



**PROJECT**

**TYPE**

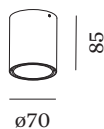
**NOTES**

**QUANTITY**

**DATE**



Cylindrical ceiling surface mounted downlight made from die-cast aluminium; surface Bronze; wet painted; brushed; 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 30°; 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  
Bronze  
RAL 7013 <sup>a</sup>  
IP20  
Interior  
415 lm

**LED Module**

3000 K  
CRI  $\geq 90$   
L80 / 55000h  
 $\leq 2$  SDCM (initial MacAdam)  
555 lm  
107 lm/W <sup>b</sup>

**Optical**

Medium (standard)  
beam angle 30°  
CIE flux code: 91 96 99 100  
100

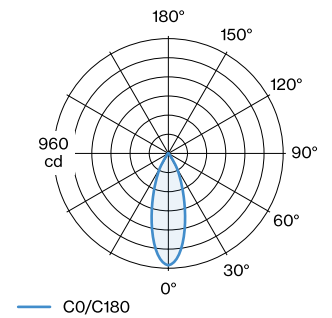
**Electrical**

phase-cut dim  
220 - 240 V  
system 6.8 W  
Class I  
Standard

**Physical**

diameter 70 mm  
height 85 mm  
0.19 kg

**LIGHT DISTRIBUTION**



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

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



## CONE DIAGRAM

medium (standard) 34°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 936      | 0.61  |
| 2     | 234      | 1.22  |
| 3     | 104      | 1.84  |
| 4     | 58       | 2.45  |
| 5     | 37       | 3.06  |

## Maintenance Factor

| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.99   | 0.98   | 0.98   | 0.97   | 0.96   |
| 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.