



PROJECT

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TYPE

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NOTES

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QUANTITY

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DATE

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Cylindrical ceiling surface mounted downlight made from die-cast aluminium; surface Copper; wet painted; brushed; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 1800 K - 2850 K colour warm dimming; binning initial MacAdam  $\leq 4$  SDCM; CRI  $\geq 95$ ; 220 - 240 V; degree of protection IP20; Class 1; UGR  $\leq 13$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 1500 \text{ cd/m}^2$ ; optional single inner cover available;

**GENERAL**

Ceiling \_\_\_\_\_  
 Surface \_\_\_\_\_  
 Copper \_\_\_\_\_  
 IP20 \_\_\_\_\_  
 Interior \_\_\_\_\_  
 380 lm \_\_\_\_\_  
 CIE flux code: 95 99 100 100 \_\_\_\_\_  
 100 \_\_\_\_\_

**LED**

colour warm dimming \_\_\_\_\_  
 1800 K - 2850 K \_\_\_\_\_  
 CRI  $\geq 95$  \_\_\_\_\_  
 L70 / 50000 h \_\_\_\_\_  
 initial MacAdam  $\leq 4$  SDCM \_\_\_\_\_

**OPTICAL**

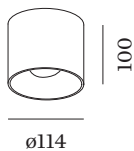
Standard \_\_\_\_\_  
 beam angle  $21^\circ$  \_\_\_\_\_

**ELECTRICAL**

phase-cut dim \_\_\_\_\_  
 220 - 240 V \_\_\_\_\_  
 system 7.9 W \_\_\_\_\_  
 Class 1 \_\_\_\_\_

**PHYSICAL**

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




**Maintenance Factor**

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0	0	0	0	0
LSF	1	1	1	1	1

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

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	Ø·H (MM)	Item number
RAY   max. 10W	Black	67·54	911041B1
RAY   max. 10W	Gold	67·54	911041G1
RAY   max. 10W	Champagne	67·54	911041M1
RAY   max. 10W	White	67·54	911041W1