



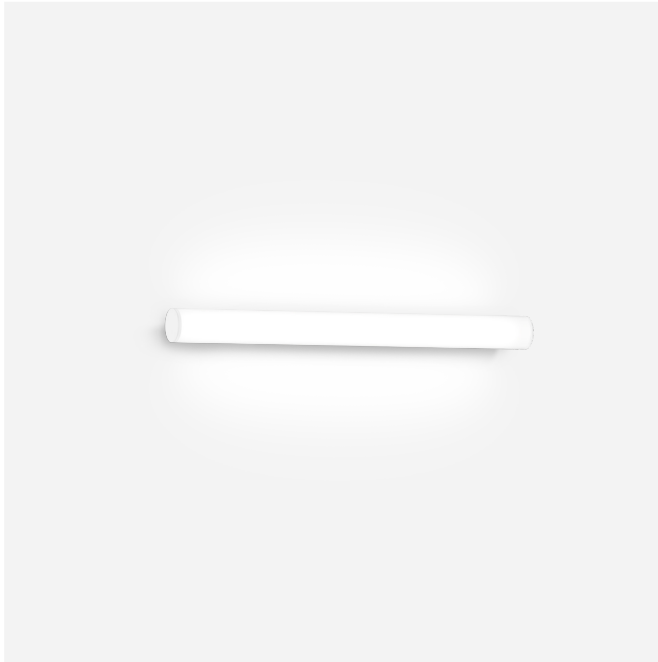
**PROJECT**

**TYPE**

**NOTES**

**QUANTITY**

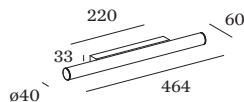
**DATE**



IP44



Tubular wall surface luminaire made from aluminium; surface White Matt; powder coated; matt texture; opal PMMA; RAL 9010; PCB 3-step binning; light colour 2700 K;  $\leq 3$  SDCM (initial MacAdam); CRI  $\geq 90$ ; inclusive output selector (choose between low and high luminosity); degree of protection IP44; Class I; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



**LUMINAIRE**

Wall  
Surface  
White Matt + Opal PMMA  
RAL 9010 <sup>a</sup>  
IP44  
Interior  
375 lm / Low Output  
645 lm / High Output

**LED Module**

2700 K  
CRI  $\geq 90$   
L80 / 50000h  
 $\leq 3$  SDCM (initial MacAdam)  
375 / 645 lm  
97 / 109 lm/W <sup>b</sup>

**Optical**

Opal  
CIE flux code: 28 54 78 50 100

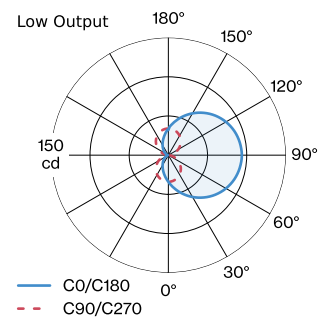
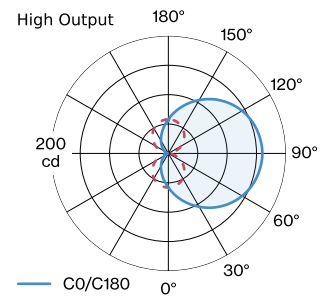
**Electrical**

incl. output selector | phase-cut dim  
220 - 240 V  
system 3.9 / 5.9 W  
Class I  
Standard

**Physical**

length 464 mm  
width 60 mm  
height 40 mm  
0.49 kg

**LIGHT DISTRIBUTION**



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



## Maintenance Factor

| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.97   | 0.94   | 0.91   | 0.89   | 0.86   |
| 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.