



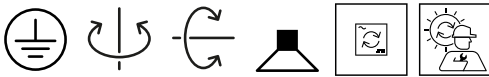
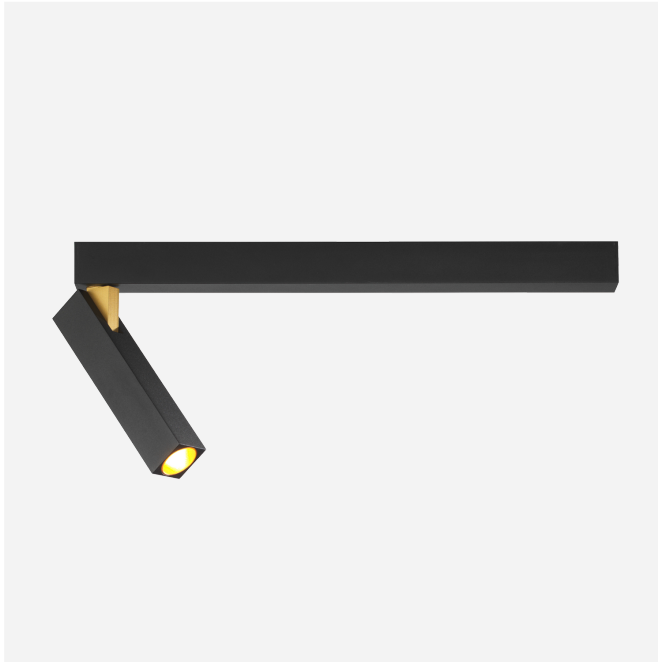
PROJECT

TYPE

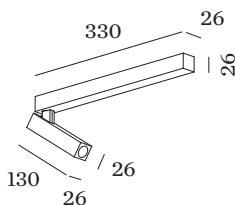
NOTES

QUANTITY

DATE



Ceiling surface spotlight made from die-cast aluminium; with rectangular base; surface Black Matt + Gold; powder coated and wet painted; matt texture; RAL 9005; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 2700 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90 ; beam angle 23°; 220 - 240 V; 350° rotatable and 90° tiltable; degree of protection IP20; Class 1; driver included; light source replaceable by Wever & Ducré or by a professional with explicit authorization; control gear replaceable by end-user;



GENERAL

Ceiling / Wall
 Surface
 tilt max 90 °
 rotation 350 °
 Black Matt + Gold
 RAL 9005 ^a
 IP20
 Interior
 410 lm
 CIE flux code: 90 98 100 100
 100

LED

2700 K
 CRI ≥ 90
 L80 / 50000h
 initial MacAdam ≤ 2 SDCM

OPTICAL

Standard
 beam angle 23°

ELECTRICAL

phase-cut dim
 220 - 240 V
 system 13.8 W
 Class 1

PHYSICAL

length 330 mm
 width 26 mm
 height 130 mm
 0.35 kg

^a Colour may deviate slightly due to production conditions.



Maintenance Factor

| | | | | | |
|--------------------|--------|--------|--------|--------|--------|
| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
| LLMF | 0.96 | 0.92 | 0.89 | 0.85 | 0.82 |
| LSF | 1 | 1 | 1 | 1 | 1 |

| | | | |
|------------------|--|-------------------|---------------------------------|
| MF | $LMF \times RSMF \times LLMF \times LSF$ | RSMF ^a | Room Surface Maintenance Factor |
| MF | Maintenance Factor | LLMF | Lamp Lumens Maintenance Factor |
| LMF ^a | Luminaire Maintenance Factor | LSF | Lamp Survival Factor |

^aAccording to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.