



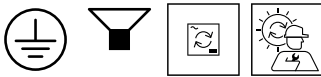
PROJECT

TYPE

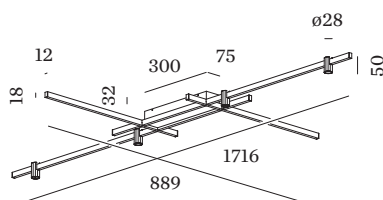
NOTES

QUANTITY

DATE



Ceiling surface luminaire with 4 spotlights; made from die-cast aluminium; with rectangular base; surface Black Matt + Champagne; powder coated; matt texture; RAL 9011; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; direct/indirect light distribution; light colour 2700 K; ≤ 3 SDCM (initial MacAdam); CRI ≥ 90 ; beam angle 30°; 220 - 240 V; 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
Black Matt + Champagne
RAL 9011^a
IP20
Interior
per head 410 / 480 lm
heads 2 / 4
1650 lm / Spot
965 lm / Indirect

LED Module

2700 K
CRI ≥ 90
L80 / 50000h
 $\leq 2 / 3$ SDCM (initial MacAdam)
410 / 480 lm
94 / 100 lm/W^b

Optical

Medium (standard)
beam angle 30°
CIE flux code: 0 0 4 0 100 / 95
99 100 100 100
UGR ≤ 10
 $\geq 65^\circ < 1500 \text{ cd/m}^2$

Electrical

phase-cut dim
220 - 240 V
system 13.3 / 21.5 W
Class I
Standard

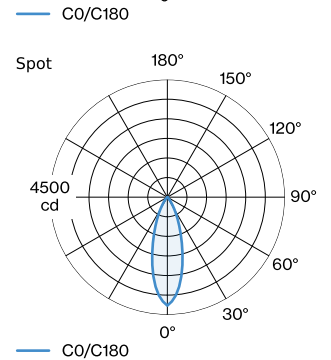
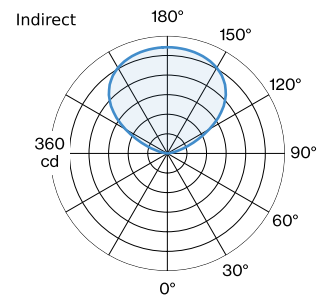
Physical

length 1716 mm
width 889 mm
height 50 mm
1.41 kg

^a Colour may deviate slightly due to production conditions

^b Without electrical and optical losses

LIGHT DISTRIBUTION





Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.98	0.97	0.95	0.93	0.92
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.