



PROJECT

TYPE

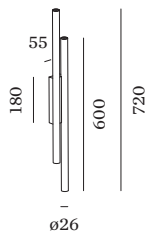
NOTES

QUANTITY

DATE



Tubular wall surface luminaire made from aluminium; surface Black Matt; powder coated, matt texture; RAL 9011; up and down light emission; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 3000 K; ≤ 2 SDCM (initial MacAdam); CRI ≥ 90 ; beam angle 23° ; 220 - 240 V; degree of protection IP20; Class I; UGR ≤ 10 ; driver included; light source replaceable by Wever & Ducré or by a professional with explicit authorization; control gear replaceable by end-user;



LUMINAIRE

Wall
Surface
Black Matt
RAL 9011^a
IP20
Interior
indirect 840 lm
direct 840 lm
total 1680 lm

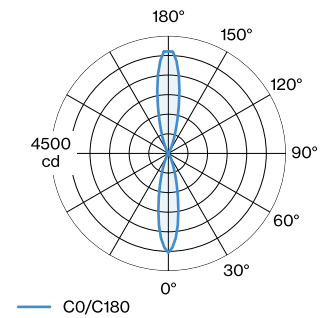
LED MODULE

3000 K
CRI ≥ 90
L80 / 50000h
 ≤ 2 SDCM (initial MacAdam)

OPTICAL

Medium (standard)
beam angle 23°
CIE flux code: 99 100 100 48 100

LIGHT DISTRIBUTION



ELECTRICAL

phase-cut dim
220 - 240 V
system 22.8 W
Class I

PHYSICAL

diameter 69 mm
height 720 mm
0.76 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	0.99	0.98	0.98	0.97	0.96
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.