



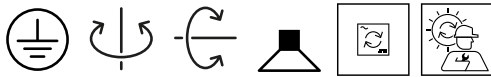
PROJECT

TYPE

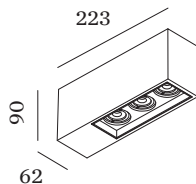
NOTES

QUANTITY

DATE



Rectangular ceiling surface mounted downlight with 3 spots made from die-cast aluminium; surface Black Matt; powder coated, matt texture; RAL 9011; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 2700 K; ≤ 2 SDCM (initial MacAdam); CRI ≥ 90 ; beam angle 15°; 355° rotatable and 25° tiltable; 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
tilt max 25 °
rotation 355 °
Black Matt
RAL 9011 ^a
IP20
Interior
1610 lm

LED Module

2700 K
CRI ≥ 90
L70 / 55000h
 ≤ 2 SDCM (initial MacAdam)
1953 lm
109 lm/W ^b

Optical

Narrow
beam angle 15°
UGR ≤ 10
CIE flux code: 98 100 100 100
100
 $\geq 65^\circ < 1500 \text{ cd/m}^2$

Electrical

phase-cut dim
220 - 240 V
system 21.9 W
Class I

Physical

length 223 mm
width 62 mm
height 90 mm
0.85 kg

^a Colour may deviate slightly due to production conditions

^b Without electrical and optical losses



Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.98	0.95	0.93	0.9	0.88
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.