



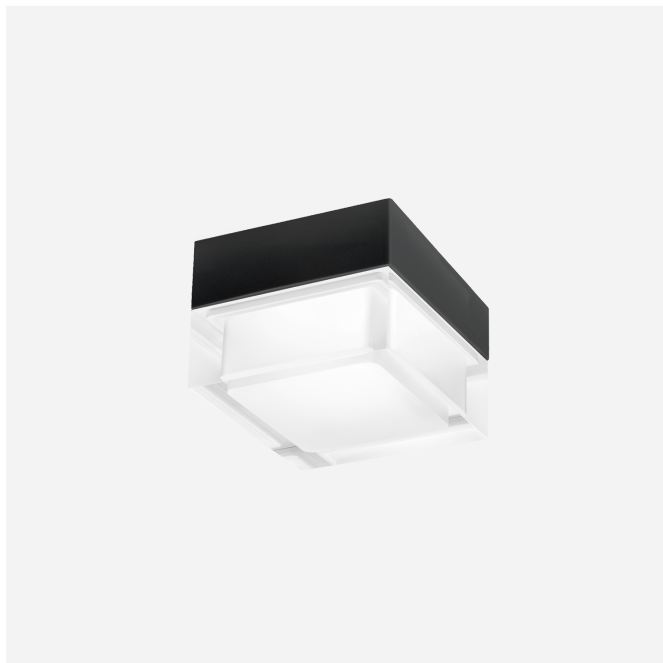
PROJECT

TYPE

NOTES

QUANTITY

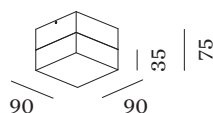
DATE



IP44



Squared ceiling surface mounted downlight made from die-cast aluminium; RAL 9011; PCB 3-step binning; phase-cut dim; light colour 3000 K; ≤ 3 SDCM (initial MacAdam); CRI ≥ 90 ; degree of protection IP44; Class I; light source not replaceable;



LUMINAIRE

Ceiling
Surface
Black Matt + Clear/Opal PMMA
RAL 9011 ^a
IP44
Interior
640 lm

LED Module

3000 K
CRI ≥ 90
L80 / 60000h
 ≤ 3 SDCM (initial MacAdam)

Optical

Opal
CIE flux code: 39 69 89 84 100

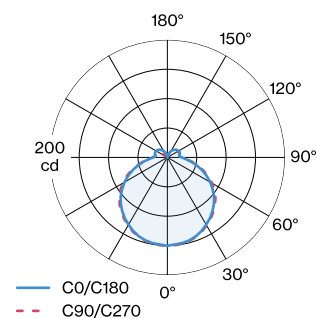
Electrical

phase-cut dim
220 - 240 V
system 7.2 W
Class I
Standard

Physical

length 90 mm
width 90 mm
height 75 mm
0.5 kg

LIGHT DISTRIBUTION



^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	0.98	0.95	0.92	0.89	0.86
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.