



PROJECT

TYPE

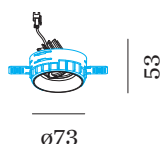
NOTES

QUANTITY

DATE



Round ceiling recessed downlight made from die-cast aluminium; adjustable; surface Black Matt; powder coated, matt texture; RAL 9011; with COB (Chip on Board) technology for maximum efficiency; light colour 2000 - 3000 K colour warm dimming; ≤ 3 SDCM (initial MacAdam); CRI ≥ 90 ; beam angle 39°; 360° rotatable and 35° tiltable; degree of protection IP20; Class 3; IC rated; driver not included; to be combined with the plasterkit suitable for ceiling thickness; light source replaceable by an authorized professional;



LUMINAIRE

Ceiling
Recessed
tilt max 35°
rotation 360°
Black Matt
RAL 9011^a
IP20
IC rated
Interior
450 lm / 350mA

LED Module

colour warm dimming
2000 - 3000 K
CRI ≥ 90
L70 / 50000h
 ≤ 3 SDCM (initial MacAdam)
545 lm / 350mA
90 lm/W^b
6.1 W^b

Optical

Medium (standard)
beam angle 39°
CIE flux code: 90 98 100 100 100

Electrical

excl. driver
16 V
Class III
Standard

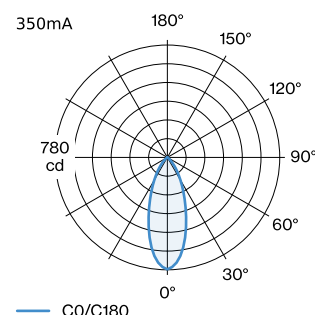
Physical

diameter 73 mm
height 53 mm
0.07 kg
alu plasterkit

Cutout

diameter 78-80 mm
recessed depth 65 mm
12.5, 15, 20, 25

LIGHT DISTRIBUTION



^a Colour may deviate slightly due to production conditions
^b Without electrical and optical losses



CONE DIAGRAM

medium (standard) 390mA

h (m)	E0° (lx)	ø (m)
1	777	0.70
2	194	1.40
3	86	2.10
4	49	2.80
5	31	3.49

Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.95	0.91	0.86	0.82	0.77
LSF	1	1	1	1	1

MF LMF × RSMF × LLMF × LSF

MF Maintenance Factor

LMF^a Luminaire Maintenance Factor

RSMF^a Room Surface Maintenance Factor

LLMF Lamp Lumens 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.

ELECTRICAL ACCESSORIES

Driver

Type	Colour	Voltage	L·W·H (MM)	Item number
6W 350mA 8.6-18V		8.6-18V	67·39·22	90213303
10W 350mA 13-26V phase-cut dim		13-26V	115·41·25	90223406
14W 350mA 10-40V DALI-2 push dim		10-40V	166·29·21	90243502

MOUNTING ACCESSORIES

Plasterkit

Type	Colour	Voltage	Ø·H (MM)	Item number
			73·29	90017210