



PROJECT

TYPE

NOTES

QUANTITY

DATE



Round ceiling recessed downlight made from die-cast aluminium with opal glass lens; surface Black Matt; powder coated; matt texture; RAL 9011; installation without tools using wire springs; suitable for ceiling thickness of 4-27 mm; recessed depth 80 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K; ≤ 2 SDCM (initial MacAdam); CRI ≥ 90 ; CRI (Colour Rendering Index) ≥ 90 ; degree of protection IP65; Class 3; IC rated; driver not included; light source not replaceable;



LUMINAIRE

Ceiling
Recessed
Black Matt
RAL 9011^a
IP65
IC rated
Exterior
300 lm / 350mA
410 lm / 500mA

LED Module

3000 K
CRI ≥ 90
L80 / 55000h
 ≤ 2 SDCM (initial MacAdam)
300 lm / 350mA
50 lm/W^b
6 W^b

Optical

Extreme wide
beam angle 105°
CIE flux code: 55 87 98 100
100

Electrical

excl. driver
17 V
Class III

Physical

diameter 77 mm
height 55 mm
0.13 kg
wire springs

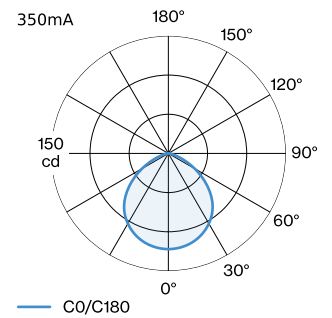
Cutout

diameter 70 mm
min. ceiling thickness 4 mm
max. ceiling thickness 27 mm
recessed depth 80 mm

^a Colour may deviate slightly due to production conditions

^b Without electrical and optical losses

LIGHT DISTRIBUTION





CONE DIAGRAM

extreme wide 103° 350mA

h (m)	E0° (lx)	ø (m)
1	122	2.52
2	31	5.04
3	14	7.57
4	8	10.09
5	5	12.61

extreme wide 103° 500mA

h (m)	E0° (lx)	ø (m)
1	166	2.52
2	42	5.04
3	18	7.57
4	10	10.09
5	7	12.61

Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.96	0.92	0.88	0.85	0.81
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
10W 500mA 11-20V		11-20V	100-43-23	90214405
10W 500mA 13-20V		13-20V	65-39-20	90214406
24W 500mA 5-49V IP68		5-49V	122-54-26	90214702
10W 500mA 3-20V phase-cut dim		3-20V	102-49-29	90224402
10W 500mA 12-21V phase-cut dim		12-21V	115-41-25	90224403