



PROJECT

TYPE

NOTES

QUANTITY

DATE



Round ceiling recessed downlight made from die-cast aluminium; surface Black Matt; powder coated; matt texture; RAL 9011; installation without tools using blade springs; recessed depth 85 mm; beam angle 30°; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90 ; UGR ≤ 16 ; degree of protection IP65; Class 3; IC rated; driver not included; light source not replaceable;



GENERAL

Ceiling
Recessed
Black Matt
RAL 9011 ^a
IP65
IC rated
Exterior
CIE flux code: 99 100 100 100 100

LED

3000 K
CRI ≥ 90
L80 / 55000h
initial MacAdam ≤ 2 SDCM

OPTICAL

Standard
beam angle 30°

ELECTRICAL

excl. driver
8 V
inset 4.1 W
Class 3

PHYSICAL

diameter 57 mm
height 55 mm
0.09 kg
blade springs

CUTOUT

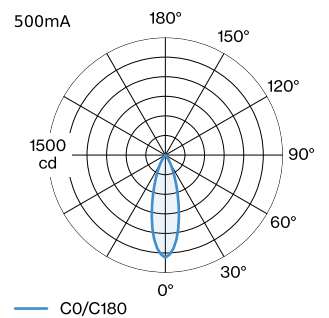
diameter 50-52 mm
min. ceiling thickness 4 mm
recessed depth 85 mm

^a Colour may deviate slightly due to production conditions.

OUTPUT

500mA
450 lm
5.5 W

LIGHT DISTRIBUTION





CONE DIAGRAM

standard 30° 500mA

h (m)	E0° (lx)	ø (m)
1	1310	0.54
2	330	1.07
3	150	1.61
4	80	2.15
5	50	2.68

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	Voltage	L·W·H (MM)	Item number
6W 500mA 3-12V	3-12V	68-35-21	90214201
7W 500mA 5-14.5V IP67	5-14.5V	57-41-24	90214301
6.5W 500mA 7-13V phase-cut dim	7-13V	122-41-23	90224301