



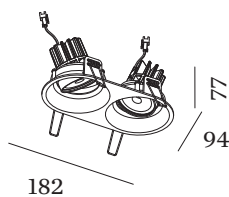
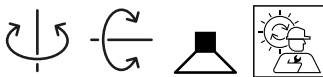
PROJECT

TYPE

NOTES

QUANTITY

DATE



LUMINAIRE

Ceiling
Recessed
tilt max 35 °
rotation 355 °
Black Matt
RAL 9011 ^a
IP20
Interior
1780 lm / 500mA
1320 lm / 350mA

LED Module

2700 K
CRI ≥ 90
L80 / 55000h
≤ 2 SDCM (initial MacAdam)
1496 lm / 350mA
125 lm/W ^b
12 W ^b

Optical

Wide
beam angle 56°
CIE flux code: 89 99 100 100
100

Electrical

excl. driver
17 V
Class III

Physical

length 182 mm
width 94 mm
height 77 mm
0.61 kg
wire springs

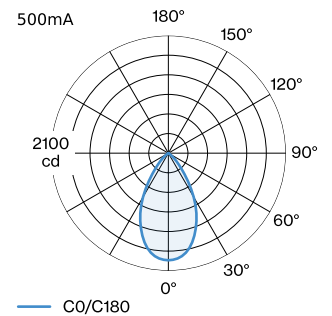
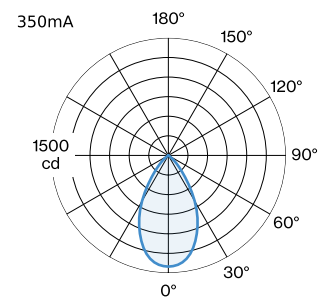
Cutout

min. ceiling thickness 4 mm
max. ceiling thickness 23 mm
recessed depth 90 mm
Cut out: 89 x 172-178

^a Colour may deviate slightly due to production conditions

^b Without electrical and optical losses

LIGHT DISTRIBUTION





CONE DIAGRAM

wide 58° 350mA			wide 58° 500mA		
h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	1420	1.11	1	1910	1.11
2	350	2.23	2	480	2.23
3	160	3.34	3	210	3.34
4	90	4.46	4	120	4.46
5	60	5.57	5	80	5.57

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
17.5 - 20W			102-51-30	90218601
20W 500mA 26-38V phase-cut dim		26-38V	138-44-30	90224602
20W 500mA 3-40V DALI		3-40V	116-40.5-22	90244604
24W 500mA 6-49V DALI-2		6-49V	143-43-30	90244701

OTHER ACCESSORIES

Metal spring clip

Type	Colour	Voltage	Ø (MM)	Item number
MR16 LED PAR16 max. 12W			59	90019700

Spring clip

Type	Colour	Voltage	Ø (MM)	Item number
MR16 LED PAR16 max. 12W	Black		59	900198B0
MR16 LED PAR16 max. 12W	White		59	900198W0