



PROJECT _____

TYPE _____

NOTES _____

QUANTITY _____

DATE _____



GENERAL

Ceiling _____
 Recessed _____
 tilt max 35 ° _____
 rotation 355 ° _____
 Black Matt _____
 RAL 9011 ^a _____
 IP20 _____
 Interior _____
 CIE flux code: 80 100 100 100
 100 _____

OUTPUT

350mA _____
 405 lm _____
 8.4 W _____

500mA _____
 595 lm _____
 12.5 W _____

LED

colour warm dimming _____
 2000 K - 3000 K _____
 CRI ≥ 90 _____
 L70 / 50000h _____
 initial MacAdam ≤ 3 SDCM _____

OPTICAL

Asymmetric _____
 beam angle 38° _____

ELECTRICAL

excl. driver _____
 17 V _____
 inset 6.1 / 9.0 W _____
 Class 3 _____

PHYSICAL

diameter 94 mm _____
 height 95 mm _____
 0.25 kg _____
 wire springs _____

CUTOUT

diameter 87-88 mm _____
 min. ceiling thickness 4 mm _____
 max. ceiling thickness 25 mm _____
 recessed depth 100 mm _____

^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	0.95	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	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
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
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	Ø (MM)	Item number
MR16 LED PAR16 max. 12W	59	90019700

Spring clip

Type	Colour	Ø (MM)	Item number
MR16 LED PAR16 max. 12W	Black	59	900198B0
MR16 LED PAR16 max. 12W	Gold	59	900198G0
MR16 LED PAR16 max. 12W	Silver	59	900198S0
MR16 LED PAR16 max. 12W	White	59	900198W0