



**PROJECT** \_\_\_\_\_

**TYPE** \_\_\_\_\_

**NOTES** \_\_\_\_\_

**QUANTITY** \_\_\_\_\_

**DATE** \_\_\_\_\_



**GENERAL**

Ceiling \_\_\_\_\_  
 Recessed \_\_\_\_\_  
 tilt max 35 ° \_\_\_\_\_  
 rotation 355 ° \_\_\_\_\_  
 Black Matt \_\_\_\_\_  
 RAL 9011 <sup>a</sup> \_\_\_\_\_  
 IP20 \_\_\_\_\_  
 Interior \_\_\_\_\_  
 CIE flux code: 80 100 100 100 100 \_\_\_\_\_

**OUTPUT**

350mA \_\_\_\_\_  
 545 lm \_\_\_\_\_  
 8.3 W \_\_\_\_\_

500mA \_\_\_\_\_  
 735 lm \_\_\_\_\_  
 12.2 W \_\_\_\_\_

**LED**

2700 K \_\_\_\_\_  
 CRI ≥ 90 \_\_\_\_\_  
 L80 / 55000h \_\_\_\_\_  
 initial MacAdam ≤ 2 SDCM \_\_\_\_\_

**OPTICAL**

Asymmetric \_\_\_\_\_  
 beam angle 34° \_\_\_\_\_

**ELECTRICAL**

excl. driver \_\_\_\_\_  
 17 V \_\_\_\_\_  
 inset 6.0 / 8.8 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 \_\_\_\_\_

<sup>a</sup> Colour may deviate slightly due to production conditions.



## Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.96	0.92	0.88	0.85	0.81
LSF	1	1	1	1	1

MF LMF × RSMF × LLMF × LSF

MF Maintenance Factor

LMF<sup>a</sup> Luminaire Maintenance Factor

RSMF<sup>a</sup> Room Surface Maintenance Factor

LLMF Lamp Lumens Maintenance Factor

LSF Lamp Survival Factor

<sup>a</sup>According 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