



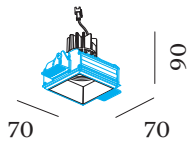
**PROJECT** \_\_\_\_\_

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

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

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

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



**GENERAL**

Ceiling \_\_\_\_\_  
 Recessed \_\_\_\_\_  
 tilt max 35 ° \_\_\_\_\_  
 rotation 355 ° \_\_\_\_\_  
 Black Matt \_\_\_\_\_  
 RAL 9011 <sup>a</sup> \_\_\_\_\_  
 IP20 \_\_\_\_\_  
 Interior \_\_\_\_\_  
 CIE flux code: 92 97 99 100  
 100 \_\_\_\_\_

**OUTPUT**

350mA \_\_\_\_\_  
 430 lm \_\_\_\_\_  
 8.4 W \_\_\_\_\_  
 500mA \_\_\_\_\_  
 635 lm \_\_\_\_\_  
 12.5 W \_\_\_\_\_

**LED**

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

**OPTICAL**

Standard \_\_\_\_\_  
 beam angle 38° \_\_\_\_\_  
 UGR ≤ 16 / 19 \_\_\_\_\_

**ELECTRICAL**

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

**PHYSICAL**

length 70 mm \_\_\_\_\_  
 width 70 mm \_\_\_\_\_  
 height 90 mm \_\_\_\_\_  
 0.43 kg \_\_\_\_\_  
 alu plasterkit \_\_\_\_\_

**CUTOUT**

length 86 mm \_\_\_\_\_  
 width 86 mm \_\_\_\_\_  
 min. ceiling thickness 7 mm \_\_\_\_\_  
 max. ceiling thickness 32 mm \_\_\_\_\_  
 recessed depth 95 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	0.95	0.91	0.86	0.82	0.77
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	Champagne	59	900198M0
MR16   LED   PAR16   max. 12W	White	59	900198W0

**MOUNTING ACCESSORIES**
**Plasterkit**

Type	L·W·H (MM)	Item number
STRANGE 1.0   SNEAK TRIMLESS 1.0	81-81-42	90017120