



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

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

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

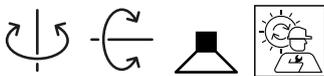
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**QUANTITY** \_\_\_\_\_

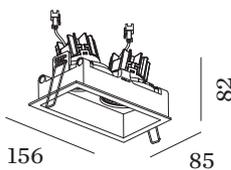
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**DATE** \_\_\_\_\_

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Rectangular ceiling recessed downlight made from die-cast aluminium; adjustable; surface Black Matt; powder coated, matt texture; RAL 9011; installation without tools using wire springs; suitable for ceiling thickness of 2-18 mm; recessed depth 95 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K;  $\leq 2$  SDCM (initial MacAdam); CRI  $\geq 90$ ; beam angle 15°; 355° rotatable and 35° tiltable; degree of protection IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



**LUMINAIRE**

Ceiling \_\_\_\_\_  
 Recessed \_\_\_\_\_  
 tilt max 35° \_\_\_\_\_  
 rotation 355° \_\_\_\_\_  
 Black Matt \_\_\_\_\_  
 RAL 9011<sup>a</sup> \_\_\_\_\_  
 IP20 \_\_\_\_\_  
 Interior \_\_\_\_\_  
 1140 lm / 350mA \_\_\_\_\_  
 1540 lm / 500mA \_\_\_\_\_

**LED Module**

3000 K \_\_\_\_\_  
 CRI  $\geq 90$  \_\_\_\_\_  
 L80 / 55000h \_\_\_\_\_  
 $\leq 2$  SDCM (initial MacAdam) \_\_\_\_\_  
 1580 lm / 350mA \_\_\_\_\_  
 132 lm/W<sup>b</sup> \_\_\_\_\_  
 12 W<sup>b</sup> \_\_\_\_\_

**Optical**

Narrow \_\_\_\_\_  
 beam angle 15° \_\_\_\_\_  
 CIE flux code: 91 97 99 100 100 \_\_\_\_\_

**Electrical**

excl. driver \_\_\_\_\_  
 17 V \_\_\_\_\_  
 Class III \_\_\_\_\_  
 Standard \_\_\_\_\_

**Physical**

length 156 mm \_\_\_\_\_  
 width 85 mm \_\_\_\_\_  
 height 90 mm \_\_\_\_\_  
 0.48 kg \_\_\_\_\_  
 wire springs \_\_\_\_\_

**Cutout**

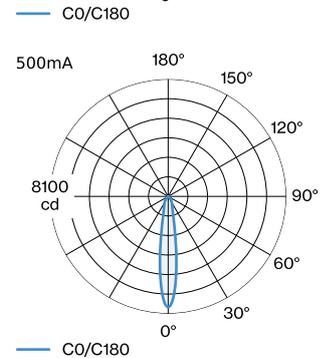
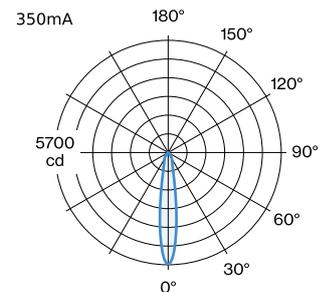
length 74 mm \_\_\_\_\_  
 width 148 mm \_\_\_\_\_  
 min. ceiling thickness 2 mm \_\_\_\_\_  
 max. ceiling thickness 18 mm \_\_\_\_\_  
 recessed depth 95 mm \_\_\_\_\_

**datasheet.quicksum.material**

Aluminium \_\_\_\_\_

<sup>a</sup> Colour may deviate slightly due to production conditions  
<sup>b</sup> Without electrical and optical losses

**LIGHT DISTRIBUTION**





## CONE DIAGRAM

narrow 17° 350mA			narrow 17° 500mA		
h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	5670	0.29	1	7660	0.29
2	1420	0.58	2	1910	0.58
3	630	0.87	3	850	0.87
4	350	1.16	4	480	1.16
5	230	1.45	5	310	1.45

## 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 =  $LMF \times RSMF \times LLMF \times LSF$

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	Colour	Voltage	L·W·H (MM)	Item number
10W   500mA   13-20V			60-39-20	90214406
10W   500mA   12-21V   phase-cut dim			115-41-25	90224403
15W   500mA   10-31V   DALI-2 push dim			166-29-21	90244501

## 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	Bronze		59	900198Q0
MR16   LED   PAR16   max. 12W	Silver		59	900198S0
MR16   LED   PAR16   max. 12W	White		59	900198W0