



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

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

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

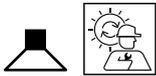
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**QUANTITY** \_\_\_\_\_

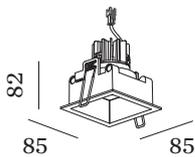
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**DATE** \_\_\_\_\_

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Squared ceiling recessed downlight made from die-cast aluminium; surface Black Matt; powder coated, matt texture; RAL 9011; installation without tools using wire springs; suitable for ceiling thickness of 4-30 mm; recessed depth 90 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 2700 K;  $\leq 2$  SDCM (initial MacAdam); CRI  $\geq 90$ ; beam angle 15°; degree of protection from below IP44; from above IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



**LUMINAIRE**

Ceiling
Recessed
Black Matt
RAL 9011 <sup>a</sup>
front IP44
back IP20
Interior
695 lm / 500mA
520 lm / 350mA

**LED Module**

2700 K
CRI $\geq 90$
L80 / 55000h
$\leq 2$ SDCM (initial MacAdam)
750 lm / 350mA
125 lm/W <sup>b</sup>
6 W <sup>b</sup>

**Optical**

Narrow
beam angle 15°
CIE flux code: 95 100 100 100
100

**Electrical**

excl. driver
17 V
Class III
Standard

**Physical**

length 85 mm
width 85 mm
height 89 mm
0.21 kg
wire springs

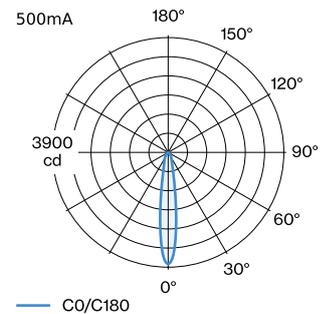
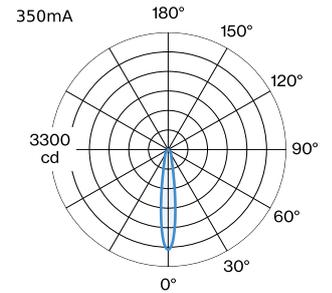
**Cutout**

length 76 mm
width 78 mm
min. ceiling thickness 4 mm
max. ceiling thickness 30 mm
recessed depth 90 mm

**datasheet.quicksum.material**

Aluminium
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**LIGHT DISTRIBUTION**



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



**CONE DIAGRAM**

narrow 16° 350mA			narrow 16° 500mA		
h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	2820	0.28	1	3790	0.28
2	700	0.56	2	950	0.56
3	310	0.84	3	420	0.84
4	180	1.12	4	240	1.12
5	110	1.41	5	150	1.41

**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	$LMF \times RSMF \times LLMF \times LSF$	RSMF <sup>a</sup>	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF <sup>a</sup>	Luminaire 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		13-20V	60-39-20	90214406
10W   500mA   12-21V   phase-cut dim		12-21V	115-41-25	90224403
15W   500mA   10-31V   DALI-2 push dim		10-31V	166-29-21	90244501