


**PROJECT**
**TYPE**
**NOTES**
**QUANTITY**
**DATE**


Round ceiling recessed downlight made from die-cast aluminium; surface Black Matt; powder coated, matt texture; RAL 9005; installation without tools using wire springs; suitable for ceiling thickness of 4-38 mm; recessed depth 90 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 2700 K; binning initial MacAdam  $\leq 2$  SDCM; CRI  $\geq 90$ ; beam angle 34°; degree of protection IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



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Ø84

**GENERAL**

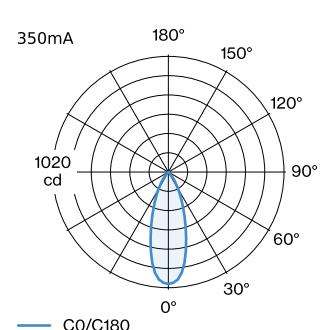
Ceiling	350mA
Recessed	455 lm
Black Matt	8.3 W
RAL 9005 <sup>a</sup>	
IP20	
Interior	
CIE flux code: 98 100 100 100 100	

**MEASURED DRIVERS**

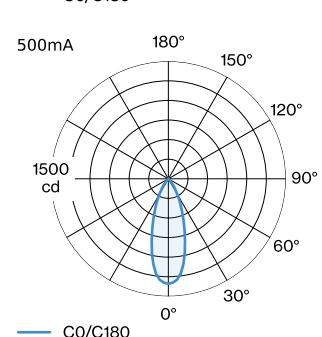
350mA	500mA
455 lm	615 lm
8.3 W	12.2 W

**LED**

2700 K	180°
CRI $\geq 90$	150°
L80 / 55000h	120°
initial MacAdam $\leq 2$ SDCM	90°

**LIGHT DISTRIBUTION**

**ELECTRICAL**

excl. driver	350mA
17 V	500mA
inset 6.0 8.8 W	180°
Class 3	150°


**PHYSICAL**

diameter 84 mm	180°
height 86 mm	150°
0.17 kg	120°
wire springs	90°

**CUTOUT**

diameter 76-79 mm	180°
min. ceiling thickness 4 mm	150°
max. ceiling thickness 38 mm	120°
recessed depth 90 mm	90°

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


**CONE DIAGRAM**

standard 36° 350mA standard 36° 500mA

h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	987	0.65	1	1340	0.65
2	247	1.29	2	330	1.29
3	110	1.94	3	150	1.94
4	62	2.58	4	80	2.58
5	39	3.23	5	50	3.23

**Maintenance Factor**

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.96	0.92	0.89	0.85	0.82
LSF	1	1	1	1	1

MF	LMF × RSMF × LLMF × LSF	RSMFa	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMFa	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	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