


**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 2000 K - 3000 K colour warm dimming; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 90$ ; beam angle 38°; degree of protection IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;


**86**
**ø84**
**GENERAL**

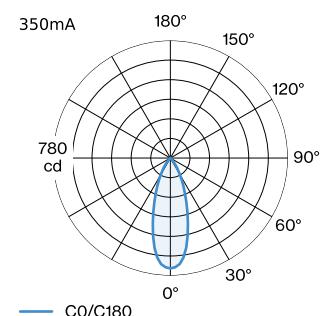
Ceiling	350mA
Recessed	335 lm
Black Matt	8.4 W
RAL 9005 <sup>a</sup>	
IP20	
Interior	
CIE flux code: 98 100 100 100	
100	

**MEASURED DRIVERS**

500mA	350mA
495 lm	335 lm
12.5 W	8.4 W

**LED**

colour warm dimming	350mA
2000 K - 3000 K	335 lm
CRI $\geq 90$	8.4 W
L70 / 50000h	
initial MacAdam $\leq 3$ SDCM	

**LIGHT DISTRIBUTION**

**OPTICAL**

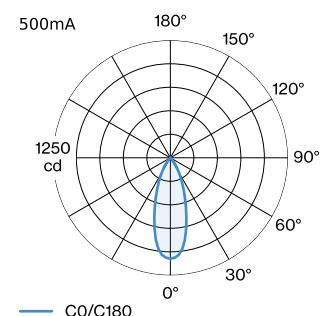
Standard	350mA
beam angle 38°	335 lm

**ELECTRICAL**

excl. driver	350mA
17 V	335 lm
inset 6.1 9.0 W	8.4 W
Class 3	

**PHYSICAL**

diameter 84 mm	350mA
height 86 mm	335 lm
0.17 kg	8.4 W
wire springs	


**CUTOUT**

diameter 76-79 mm	350mA
min. ceiling thickness 4 mm	335 lm
max. ceiling thickness 38 mm	8.4 W
recessed depth 90 mm	

<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	733	0.65	1	1070	0.65
2	183	1.29	2	270	1.29
3	81	1.94	3	120	1.94
4	46	2.58	4	70	2.58
5	29	3.23	5	40	3.23

**Maintenance Factor**

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.94	0.87	0.81	0.76	0.71
LSF	1	1	1	1	1

MF	LMF × RSMF × LLMF × LSF	RSMF <sup>a</sup>	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