



## PROJECT

## TYPE

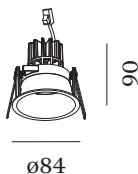
## NOTES

## 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 from below IP44; from above IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



## GENERAL

Ceiling  
Recessed  
Black Matt  
RAL 9005 <sup>a</sup>  
front IP44  
back IP20  
Interior  
CIE flux code: 98 100 100 100 100

## OUTPUT

350mA  
295 lm  
8.4 W  
  
500mA  
435 lm  
12.5 W

## LED

colour warm dimming  
2000 K - 3000 K  
CRI  $\geq 90$   
L70 / 50000h  
initial MacAdam  $\leq 3$  SDCM

## OPTICAL

Standard  
beam angle 38°

## ELECTRICAL

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

## PHYSICAL

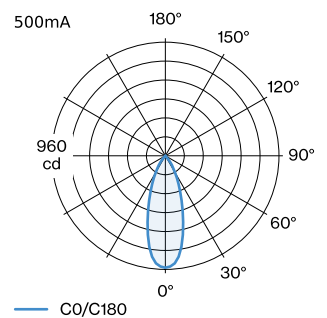
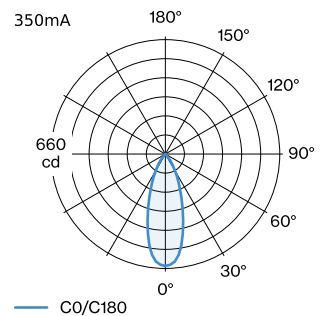
diameter 84 mm  
height 90 mm  
0.17 kg  
wire springs

## CUTOUT

diameter 76-79 mm  
min. ceiling thickness 4 mm  
max. ceiling thickness 38 mm  
recessed depth 90 mm

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

## LIGHT DISTRIBUTION





## CONE DIAGRAM

standard 36°      350mA      standard 36°      500mA

h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	646	0.65	1	946	0.65
2	161	1.29	2	236	1.29
3	72	1.94	3	105	1.94
4	40	2.58	4	59	2.58
5	26	3.23	5	38	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

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
24W   500mA   5-49V   IP68	5-49V	122-54-26	90214702
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