



PROJECT

TYPE

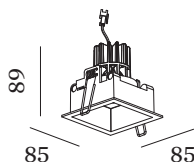
NOTES

QUANTITY

DATE



Squared 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 4-30 mm; recessed depth 90 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90 ; beam angle 34°; 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 ^a
front IP44
back IP20
Interior
CIE flux code: 98 100 100 100 100

LED

3000 K
CRI ≥ 90
L80 / 55000h
initial MacAdam ≤ 2 SDCM

OPTICAL

Standard
beam angle 34°

ELECTRICAL

excl. driver
17 V
inset 5.9 8.7 W
Class 3

PHYSICAL

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

CUTOUT

length 74 mm
width 78 mm
min. ceiling thickness 4 mm
max. ceiling thickness 30 mm
recessed depth 90 mm

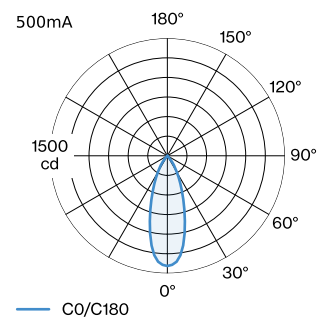
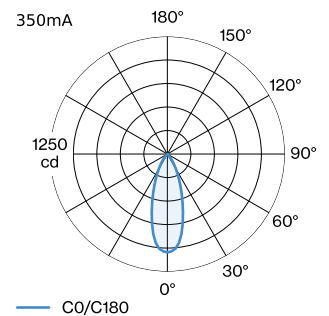
^a Colour may deviate slightly due to production conditions.

MEASURED DRIVERS

500mA
645 lm
12.1 W

350mA
480 lm
8.2 W

LIGHT DISTRIBUTION





CONE DIAGRAM

standard 36° 350mA			standard 36° 500mA		
h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	1050	0.65	1	1410	0.65
2	260	1.29	2	350	1.29
3	120	1.94	3	160	1.94
4	70	2.58	4	90	2.58
5	40	3.23	5	60	3.23

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 × RSMF × LLMF × LSF

MF Maintenance Factor

LMF^a Luminaire Maintenance Factor

RSMF^a Room Surface Maintenance Factor

LLMF Lamp Lumens Maintenance Factor

LSF Lamp Survival Factor

^aAccording 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