



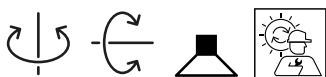
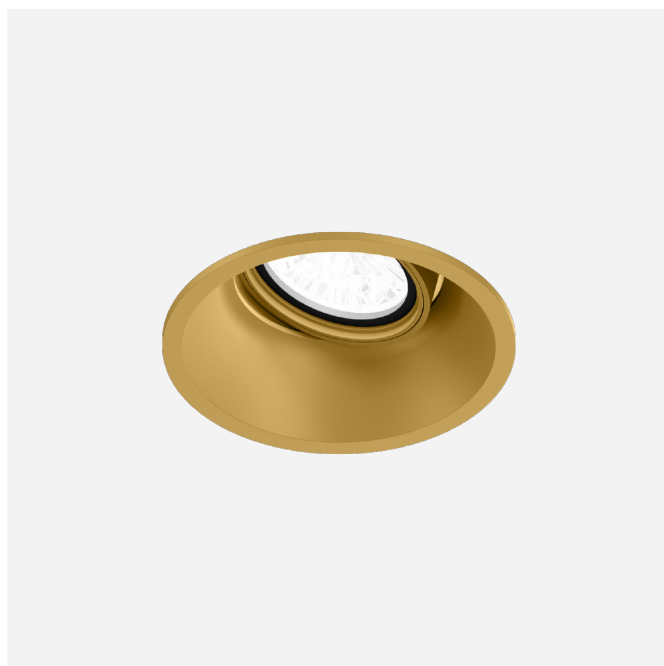
PROJECT

TYPE

NOTES

QUANTITY

DATE



Round ceiling recessed downlight made from die-cast aluminium; adjustable; surface Gold; wet painted, matt smooth; No matching RAL; installation without tools using wire springs; suitable for ceiling thickness of 4-23 mm; recessed depth 90 mm; with COB (Chip on Board) technology for maximum efficiency; light colour 2700 K; ≤ 2 SDCM (initial MacAdam); CRI ≥ 90 ; beam angle 15°; 355° rotatable and 35° tiltable; degree of protection IP20; Class 3; IC rated; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



LUMINAIRE

Ceiling
Recessed
tilt max 35°
rotation 355°
Gold
No matching RAL
IP20
Not IC rated
Interior
830 lm / 500mA
615 lm / 350mA

LED Module

2700 K
CRI ≥ 90
L80 / 55000h
 ≤ 2 SDCM (initial MacAdam)
750 lm / 350mA
126 lm/W^a
5.9 W^a

Optical

Narrow
beam angle 15°
CIE flux code: 88 99 100 100 100

Electrical

excl. driver
17 V
Class III

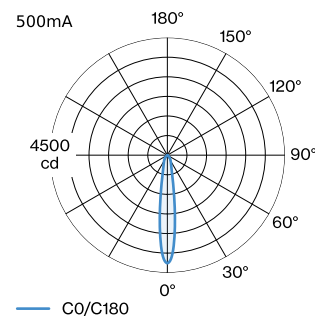
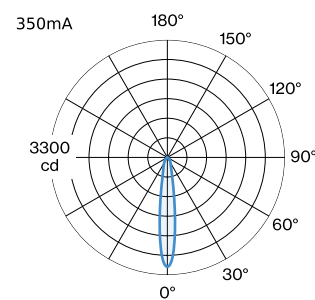
Physical

diameter 94 mm
height 77 mm
0.17 kg
wire springs

Cutout

diameter 86-89 mm
min. ceiling thickness 4 mm
max. ceiling thickness 23 mm
recessed depth 90 mm

LIGHT DISTRIBUTION



^a 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	3070	0.28	1	4140	0.28
2	770	0.55	2	1030	0.55
3	340	0.83	3	460	0.83
4	190	1.11	4	260	1.11
5	120	1.39	5	170	1.39

Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.99	0.98	0.97	0.96	0.95
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	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

OTHER ACCESSORIES

Metal spring clip

Type	Colour	Voltage	Ø (MM)	Item number
LED modules PAR16			59	90019700

Spring clip

Type	Colour	Voltage	Ø (MM)	Item number
LED Modules PAR16 max. 12W	Black		59	900198B0
LED Modules PAR16 max. 12W	Gold		59	900198G0
LED Modules PAR16 max. 12W	Champagne		59	900198M0
LED Modules PAR16 max. 12W	Bronze		59	900198Q0
LED Modules PAR16 max. 12W	Silver		59	900198S0
LED Modules PAR16 max. 12W	White		59	900198W0