



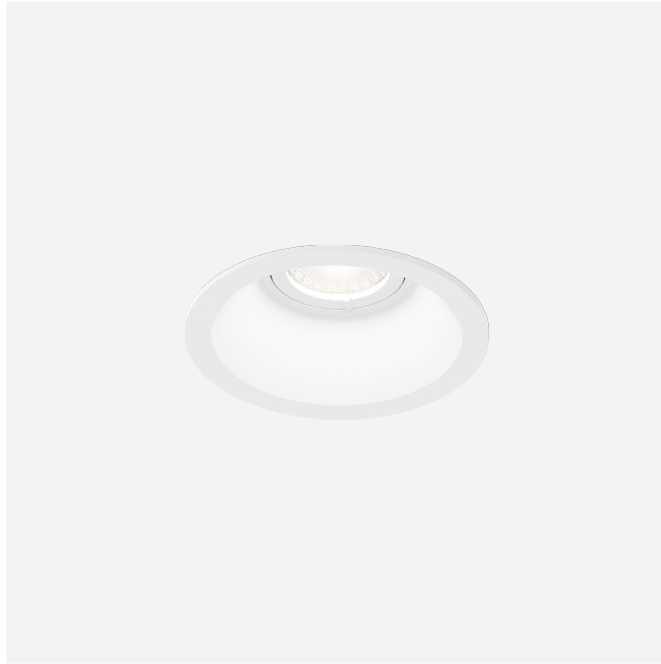
PROJECT

TYPE

NOTES

QUANTITY

DATE



Round ceiling recessed downlight made from die-cast aluminium; surface White Matt; powder coated, matt texture; RAL 9010; installation without tools using wire springs; suitable for ceiling thickness of 4-23 mm; recessed depth 50 mm; beam angle 31°; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90 ; degree of protection IP20; Class 3; IC rated; UGR ≤ 16 ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above $65^\circ \leq 1500 \text{ cd/m}^2$; driver not included; fits into Kaiser ThermoX® 9320-11; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



GENERAL

Ceiling
Recessed
White Matt
RAL 9010 ^a
IP20
IC rated
Interior
CIE flux code: 98 100 100 100 100

LED

3000 K
CRI ≥ 90
L80 / 50000 h
initial MacAdam ≤ 2 SDCM

OPTICAL

Standard
beam angle 31°

ELECTRICAL

excl. driver
17 V
inset 5.9 W
Class 3

PHYSICAL

diameter 80 mm
height 45 mm
0.04 kg
wire springs

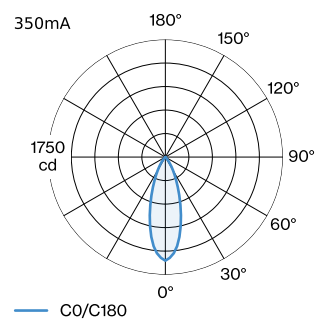
CUTOUT

diameter 68-70 mm
min. ceiling thickness 4 mm
max. ceiling thickness 23 mm
recessed depth 50 mm

OUTPUT

350mA
650 lm
7.9 W

LIGHT DISTRIBUTION



^a Colour may deviate slightly due to production conditions.



CONE DIAGRAM

standard 34° 350mA

h (m)	E0° (lx)	ø (m)
1	1540	0.61
2	390	1.23
3	170	1.84
4	100	2.46
5	60	3.07

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
6W 350mA 8.6-18V	8.6-18V	67·39·22	90213303
10W 350mA 1-10V dim	14-28V	101.5·51·29.5	90223401
10W 350mA phase-cut dim	12-28V	102·38·21	90223402
14W 350mA 2.5-42V DALI-2	2.5-42V	145·33·21	90243501
17W 350mA 10-49V DALI	10-49V	108·52·22	90243601