



PROJECT

TYPE

NOTES

QUANTITY

DATE



IP65



CRI
≥ 90

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 4-23 mm; recessed depth 60 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 IP65; Class 3; IC rated; UGR ≤ 16; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m²; driver not included; fits into Kaiser ThermoX® 9320-11; light source not replaceable;



GENERAL

Ceiling
Recessed
Black Matt
RAL 9005 ^a
IP65
IC rated
Exterior
CIE flux code: 94 99 100 100 100

LED

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

OPTICAL

Standard
beam angle 31°

ELECTRICAL

excl. driver
17 V
inset 6.0 W
Class 3

PHYSICAL

diameter 80 mm
height 55 mm
0.1 kg
wire springs

CUTOUT

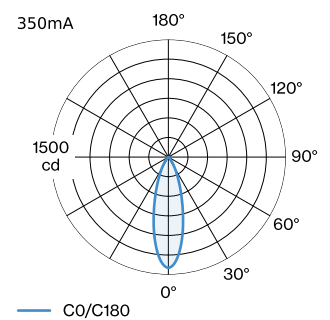
diameter 68-70 mm
min. ceiling thickness 4 mm
max. ceiling thickness 23 mm
recessed depth 60 mm

^a Colour may deviate slightly due to production conditions.

MEASURED DRIVER

350mA
540 lm
6 W

LIGHT DISTRIBUTION





CONE DIAGRAM

standard 30° 350mA

h (m)	E0° (lx)	ø (m)
1	1420	0.54
2	350	1.08
3	160	1.62
4	90	2.17
5	60	2.71

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
17W 350mA 5-49V IP68	5-49V	122·54·26	90213602
7W 350mA 12-21V phase-cut dim	12-21V	69·34·22	90223301
10W 350mA 1-10V dim	14-28V	101.5·51·29.5	90223401
10W 350mA phase-cut dim	12-28V	102·38·21	90223402
10W 350mA 13-26V phase-cut dim	13-26V	115·41·25	90223406