



PROJECT _____

TYPE _____

NOTES _____

QUANTITY _____

DATE _____



UGR
≤13

CRI
≥80

Cylindrical ceiling surface mounted downlight made from die-cast aluminium; surface White Matt; powder coated; matt texture; RAL 9003; with COB (Chip on Board) technology for maximum efficiency; phase-cut dim; light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; 220 - 240 V; degree of protection IP20; Class 1; UGR ≤ 13; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 1500 cd/m²; optional single inner cover available;

GENERAL

Ceiling _____
 Surface _____
 White Matt _____
 RAL 9003 ^a _____
 IP20 _____
 Interior _____
 CIE flux code: 95 99 100 100 _____
 100 _____

LED

3000 K _____
 CRI ≥ 80 _____
 L70 / 50000 h _____
 initial MacAdam ≤ 3 SDCM _____

OPTICAL

Standard _____
 beam angle 21° _____

ELECTRICAL

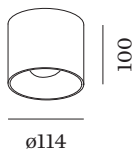
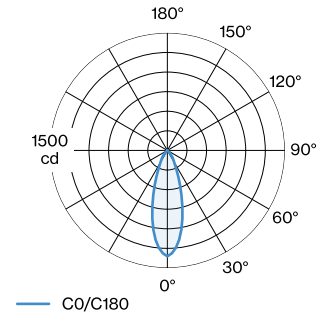
phase-cut dim _____
 220 - 240 V _____
 7.9 W _____
 Class 1 _____

PHYSICAL

diameter 114 mm _____
 height 100 mm _____
 0.7 kg _____

^a Colour may deviate slightly due to production conditions.

LIGHT DISTRIBUTION





CONE DIAGRAM

standard 32°

h (m)	E0° (lx)	ø (m)
1	1350	0.58
2	340	1.16
3	150	1.74
4	80	2.32
5	50	2.90

Maintenance Factor

Operating Time [h]	10.000	20.000	30.000	40.000	50.000
LLMF	0.95	0.9	0.85	0.8	0.76
LSF	1	1	1	1	1

MF	$LMF \times RSMF \times LLMF \times LSF$	RSMF ^a	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF ^a	Luminaire 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.

OPTICAL ACCESSORIES

Single Inner Cover

Type	Colour	Ø·H (MM)	Item number
RAY max. 10W	Black	67·54	911041B1
RAY max. 10W	Gold	67·54	911041G1
RAY max. 10W	Champagne	67·54	911041M1
RAY max. 10W	White	67·54	911041W1