

BO 45 base surface 1 lamp

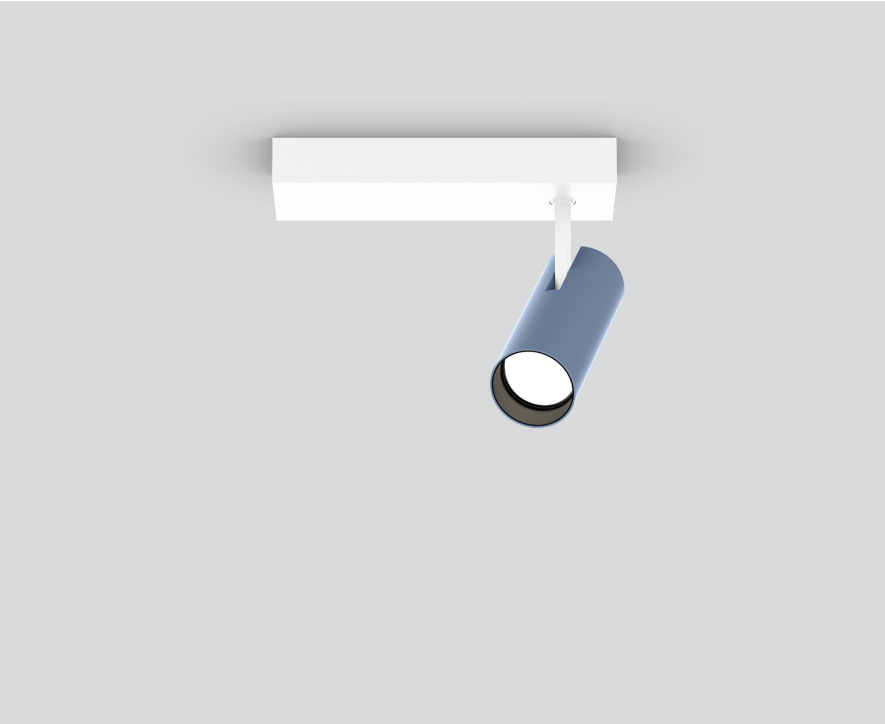
049-633053XM



Project / Type

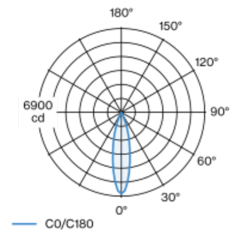
Notes

Count / Date



Surface mounted spotlight made of aluminium; 1 lamp; cylindrical spotlight head; surface special colours powder coated; 350° rotatable and 90° tiltable; surface mounted housing in aluminium incl. converter; mounting plate with pre-assembled converter unit can be pre-mounted; luminaire housing can be attached without tools by interlock; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; high quality, aluminium, vapour deposition coated reflector with faceted lens design; precise radiation characteristic with 24° beam; good glare control through recessed light point level; optical attachment available as accessory; accessories are listed separately; degree of protection IP20; PC1; 220-240 V; incl. DALI-2 converter; flicker-free visual comfort through analogue current control (minimum value 1%); luminaire for through wiring; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

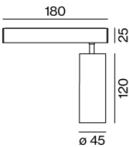
Light distribution



medium 24°

h (m)	EO° (lx)	ø (m)
1	6690	0.43
2	1670	0.86
3	740	1.30
4	420	1.73
5	270	2.16

Product drawing



General

Ceiling | Surface

tilt max 90°

rotation 350°

special colours

IP20

1390 lm

LED

3000 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R_g: 99 | R_f: 90 | R_{t(1-15)}: 87

MR 0.6 | MDER 0.54

Optical

medium | beam angle 24°

PstLM ≤ 1.0^{1 2 3 4} | SVM ≤ 0.4^{1 2 3 4}

Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 15.7 W

system 89 lm/W⁵

Physical

length 180 mm | width 55 mm | height 163 mm

0.5 kg

¹ wallwasher lens BO 45 007-1965780
² oval lens BO 45 007-1965880 ³ soft lens BO 45 007-1965980
⁴ Value of containing product at full load (undimmed)
⁵ incl. consideration of optical losses, internal control unit losses & operating device efficiency

Installation instructions



Lighting calculator



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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.964	0.923	0.884	0.847	0.811
LSF	1	1	1	1	1
MF	LMF × RSMF × LLMF × LSF		RSMF ^a	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF ^a	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

^a According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	31
B13	40
B16	50
B20	62
B25	78
C10	52
C13	67
C16	85
C20	104
C25	130

Optical accessories

HONEYCOMB LOUVER

TYPE	COLOUR	Ø (MM)	ARTICLE NUMBER(S)
for BO 45 JUST 45 MOVE IN 45 TARO 45 TULA micro	jet black	42	007-1965188



Optical accessories

OVAL LENS

TYPE	Ø (MM)	ARTICLE NUMBER(S)
for BO 45 MOVE IN 45 TULA micro	42	007-1965880



SOFT LENS

TYPE	Ø (MM)	ARTICLE NUMBER(S)
for ARY BO 45 MOVE IN 45 TULA micro	42	007-1965980



WALLWASHER LENS

TYPE	Ø (MM)	ARTICLE NUMBER(S)
for ARY BO 45 MOVE IN 45 TULA micro	42	007-1965780



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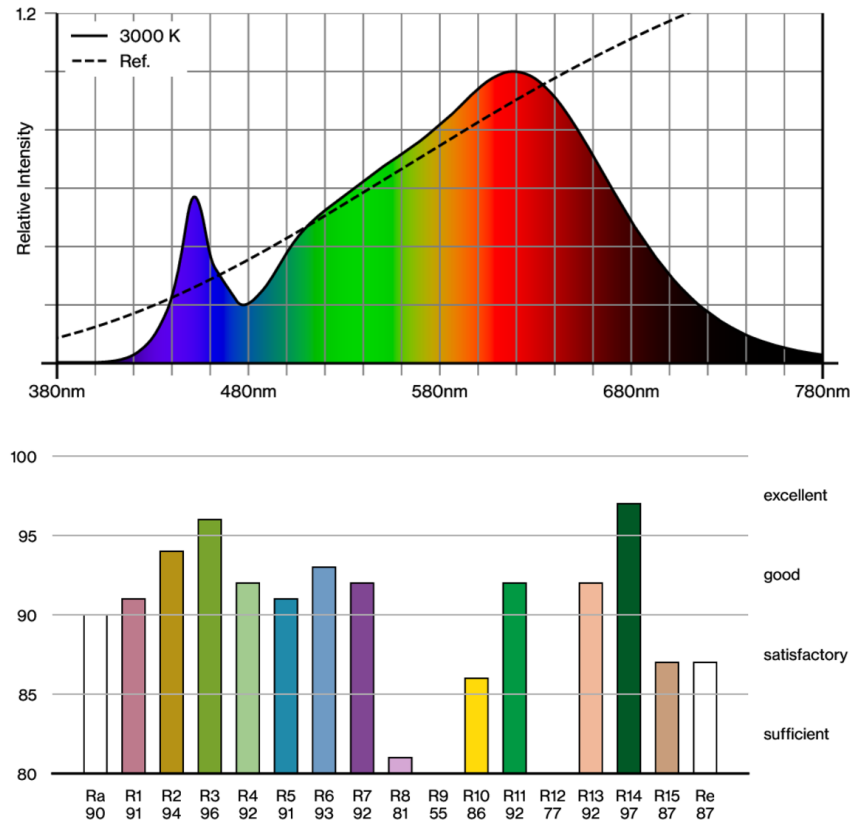


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Colour rendering



TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.