



Project / Type _____

Notes _____

Count / Date _____



General

Showcase , Standing
 rotation 360°
 black , RAL9021 ¹
 IP20
 Interior
 358 lm

LED

4000 K
 CRI ≥ 95
 L85 / 50000 h
 initial MacAdam ≤ 3 SDCM
 R_g: 100 , R_f: 94 , R_(f1-15): 96
 MR 0.87
 MDER 0.78

Optical

medium
 beam angle 30°

Electrical

excl. driver
 24 V
 4.5 W
 PC3 24V
 80 lm/W

Physical

length 400 mm
 width 11 mm
 height 29 mm

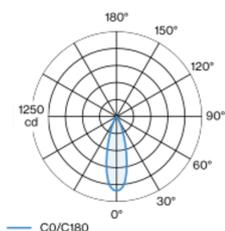
¹ RAL code

Installation instructions



Miniature rectangular lamp made of aluminium; angular design; surface lacquered in black; plug and play electrical connector system for toolless mounting; different mechanical and electrical poles available - for flexible system design (available as an accessory); equipped with miniature spotlight heads; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 95; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 30° beam; light inset rotatable; degree of protection IP20; PC3 24V; accessories are listed separately;

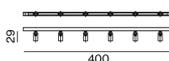
Light distribution



medium 30°

h (m)	E _{0°} (lx)	ø (m)
1	1090	0.54
2	270	1.07
3	120	1.61
4	70	2.15
5	40	2.68

Product drawing





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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.983	0.957	0.931	0.906	0.881
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 Faktor

^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.