



Project / Type _____

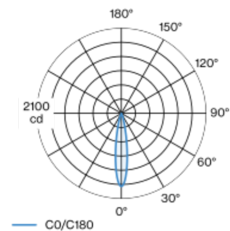
Notes _____

Count / Date _____



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 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 95 ; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 18° beam; light inset rotatable; degree of protection IP20; PC3; 24 V; accessories are listed separately; light source replaceable by an authorized professional;

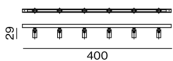
Light distribution



spot 18°

h (m)	EO° (lx)	ø (m)
1	300	0.32
2	75	0.64
3	33	0.96
4	19	1.28
5	12	1.59

Product drawing



General

Showcase , Standing _____

rotation 360° _____

black , RAL 9021 ¹ _____

IP20 _____

Interior _____

246 lm _____

optical inset 12 lm/W² _____

LED

3000 K _____

CRI ≥ 95 _____

L80 / 50000 h _____

initial MacAdam ≤ 3 SDCM _____

R_g: 102 , R_r: 94 , R₍₁₋₁₅₎: 95 _____

MR 0.61 _____

MDER 0.55 _____

Optical

spot _____

beam angle 18° _____

Electrical

excl. driver _____

24 V _____

fixture 4.4 W _____

optical inset 3.3 W _____

PC3 _____

Physical

length 400 mm _____

width 11 mm _____

height 29 mm _____

¹ RAL code ² incl. consideration of optical losses

Installation instructions





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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.954	0.915	0.879	0.844	0.81
LSF	1	1	1	1	1

MF

MF

LMF^a

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF^a

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

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.