



Project / Type

Notes

Count / Date



General

rotation 360°

jet black , RAL9005 ¹

IP20

1090 lm

LED

2700 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

$R_q: 99$, $R_f: 91$, $R_{\{1-15\}}: 89$

MR 0.54

MDER 0.49

Optical

Medium

beam angle 23°

Electrical

DALI-2

18.2 W

PC3

60 lm/W

1 DALI Addr.

Physical

length 217 mm

width 19 mm

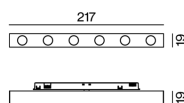
height 19 mm

¹ RAL code

Product drawing

medium 23°

h (m)	E0° (lx)	ø (m)
1	4310	0.40
2	1080	0.80
3	480	1.20
4	270	1.61
5	170	2.01



Installation instructions





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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.95	0.92	0.89	0.86
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 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.