



Project / Type

Notes

Count / Date



### General

Ceiling , Track

black , RAL 9005 <sup>1</sup>

black

IP20

308 lm

optical inset 107 lm/W<sup>2</sup>

### LED

4000 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 102 , R<sub>f</sub>: 93 , R<sub>f(-15)</sub>: 92

MR 0.81

MDER 0.74

### Optical

medium square

beam angle 33°

UGR < 10 , ≥65° <1500 cd/m<sup>2</sup>P<sub>stLM</sub> ≤ 1.0 <sup>3</sup>SVM ≤ 0.4 <sup>3</sup>

### Electrical

DALI-2

48 V

fixture 3.4 W

fixture 91 lm/W<sup>4</sup>

optical inset 2.9 W

PC3

1 DALI Addr.

### Physical

length 43 mm

width 43 mm

height 48 mm

0.1 kg

<sup>1</sup> RAL code<sup>2</sup> OPTICAL INSET: incl. consideration of optical losses<sup>3</sup> Value of containing product at full load (undimmed)<sup>4</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.

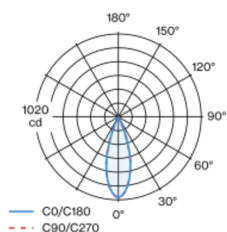
### Installation instructions



### Lighting calculator



### Light distribution



### Product drawing





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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.94	0.91	0.89	0.87	0.84
LSF	1	1	1	1	1

MF

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

Lamp Survival Faktor

<sup>a</sup> 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.