

058-5214038C



Project / Type

Notes

Count / Date



General

Ceiling , Suspended

black , RAL9005 ¹

2490 lm/m

IP20

2930 lm

LED

3000 K

CRI ≥ 90

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

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

MR 0.61

MDER 0.55

Optical

Clear Cover

opal (lambertsch)

$$\text{PstLM} \leq 1.0 \quad 2$$
$$\text{SVM} \leq 0.4^2$$

Electrical

DALI-2

220-240 V

system 27.9 W

PC1

system 105 lm/W³

24 W/m

Physical

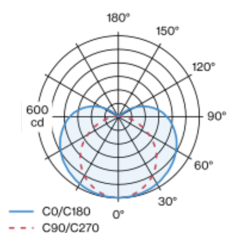
length 1210 mm

width 60 mm

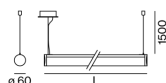
height 60 mm

¹ RAL code ² Value of containing product at full load (undimmed)³ incl. optical losses and the efficiency of the operating device (converter)

Light distribution



Product drawing



TUBIN 60 suspended

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Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF | 0.98 | 0.96 | 0.94 | 0.92 | 0.9 |
| LSF | 1 | 1 | 1 | 1 | 1 |

MF

LMF × RSMF × LLMF × LSF

MF

Maintenance Factor

LMF^a

Luminaire Maintenance Factor

RSMF^a

Room Surface Maintenance Factor

LLMF

Lamp Lumens 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.

Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10 | 15 |
| B13 | 19 |
| B16 | 24 |
| B20 | 30 |
| C10 | 24 |
| C13 | 32 |
| C16 | 40 |
| C20 | 49 |

