



Project / Type

Notes

Count / Date



**General**

Ceiling , Track

tilt max 310°

rotation 360°

white , RAL9016 <sup>1</sup>

IP20

686<sup>2</sup>-1170<sup>3</sup> lm

**LED**

3000 K

CRI ≥ 95

L90 / 50000 h

initial MacAdam ≤ 2 SDCM

R<sub>g</sub>: 99 , R<sub>f</sub>: 94 , R<sub>(1-15)</sub>: 96

MR 0.66

MDER 0.6

**Optical**

focus

beam angle 17°<sup>2</sup>-47°<sup>3</sup>

PstLM ≤ 1.0 <sup>4</sup>

SVM ≤ 0.4 <sup>4</sup>

Track light made of die-cast aluminium; surface white powder coated; 360° rotatable and 310° tiltable; converter installed in aluminium spotlight housing; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 95; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality plano-convex glass lens; precise object focusing through adjustable lens; adjustable beam angle of 17° - 47°; focusing by means of rubberised adjusting ring on the spotlight head; degree of protection IP20; PC1 220-240V; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation by means of set screw; incl. DALI-2 converter; point outlet, either in surface mounted housing or recessed housing, available as an accessory; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

**Electrical**

DALI-2

system 23.0 W

PC1 220-240V

system 30<sup>2</sup>-51<sup>3</sup> lm/W<sup>5</sup>

inset 35<sup>2</sup>-60<sup>3</sup> lm/W<sup>6</sup>

1 DALI Addr.

**Physical**

diameter 70 mm

height 106 mm

0.9 kg

set screw (tool required)

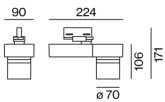
Light distribution



| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 2020     | 0.87  |
| 2     | 510      | 1.74  |
| 3     | 220      | 2.60  |
| 4     | 130      | 3.47  |
| 5     | 80       | 4.34  |

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 4900     | 0.30  |
| 2     | 1220     | 0.60  |
| 3     | 540      | 0.89  |
| 4     | 310      | 1.19  |
| 5     | 200      | 1.49  |

Product drawing



<sup>1</sup> RAL code <sup>2</sup> beam angle min <sup>3</sup> beam angle max  
<sup>4</sup> Value of containing product at full load (undimmed)  
<sup>5</sup> incl. optical losses and the efficiency of the operating device (converter)  
<sup>6</sup> incl. optical losses

Installation instructions

Lighting calculator





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Maintenance Factors

| Operating Time [h] | 10 000                       | 20 000 | 30 000            | 40 000                          | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF               | 0.97                         | 0.95   | 0.93              | 0.91                            | 0.9    |
| LSF                | 1                            | 1      | 1                 | 1                               | 1      |
| MF                 | LMF × RSMF × LLMF × LSF      |        | RSMF <sup>a</sup> | Room Surface Maintenance Factor |        |
| MF                 | Maintenance Factor           |        | LLMF              | Lamp Lumens Maintenance Factor  |        |
| LMF <sup>a</sup>   | Luminaire Maintenance Factor |        | LSF               | 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.

Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10                            | 45                 |
| B16                            | 80                 |

Mounting accessories

RECESSED HOUSING

| TYPE         | COLOUR        | Ø (MM) | ARTICLE NUMBER(S) |
|--------------|---------------|--------|-------------------|
| point outlet | traffic white | 151    | 186-072277        |
| point outlet | jet black     | 151    | 186-072278        |



SURFACE HOUSING

| TYPE         | COLOUR        | Ø (MM) | ARTICLE NUMBER(S) |
|--------------|---------------|--------|-------------------|
| point outlet | traffic white | 120    | 186-072287        |
| point outlet | jet black     | 120    | 186-072288        |



Optical accessories

SNOOT

| COLOUR    | Ø (MM) | ARTICLE NUMBER(S) |
|-----------|--------|-------------------|
| jet black | 62     | 080-5900008       |



HONEYCOMB LOUVER

| COLOUR    | Ø (MM) | ARTICLE NUMBER(S) |
|-----------|--------|-------------------|
| jet black | 61     | 080-5900018       |

