



Project / Type

Notes

Count / Date



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 ≥ 90 ; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. exchangeable additional lenses; precise radiation characteristics with different beam angles; optical filter available as accessory; degree of protection IP20; PC1 220-240V; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation without tools by means of knurled screw; incl. converter, dimmable with integrated potentiometer; 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;



General

Ceiling , Track

tilt max 310°

rotation 360°

white , RAL9016 ¹

IP20

890², 911³, 961⁴, 981⁵, 1010⁶, 1010⁷ lm

LED

3000 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 2 SDCM

R_g: 98 , R_f: 91 , R₍₁₋₁₅₎: 89

MR 0.6

MDER 0.55

Optical

wide flood², medium³, flood⁴, flood⁵, spot⁶, super spot⁷

beam angle 64°², 30°³, 38°⁴, 40°⁵, 19°⁶, 10°⁷

PstLM ≤ 1.0 ⁸

SVM ≤ 0.4 ⁸

Electrical

DIM POT1

14.7 W

PC1 220-240V

61², 62³, 65⁴, 67⁵, 69⁶, 69⁷ lm/W

Physical

diameter 70 mm

height 98 mm

0.92 kg

tool-free fixation

¹ RAL code ² 64 degrees ³ 30 degrees ⁴ 38 degrees

⁵ 40 degrees ⁶ 19 degrees ⁷ 10 degrees

⁸ Value of containing product at full load (undimmed)

Installation instructions



Lighting calculator

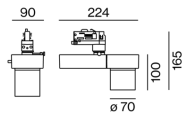




Light distribution



Product drawing



super spot 10°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 23700 | 0.18 |
| 2 | 5900 | 0.36 |
| 3 | 2600 | 0.53 |
| 4 | 1500 | 0.71 |
| 5 | 900 | 0.89 |

spot 19°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 6160 | 0.33 |
| 2 | 1540 | 0.65 |
| 3 | 680 | 0.98 |
| 4 | 390 | 1.31 |
| 5 | 250 | 1.63 |

medium 30°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 2070 | 0.54 |
| 2 | 520 | 1.08 |
| 3 | 230 | 1.63 |
| 4 | 130 | 2.17 |
| 5 | 80 | 2.71 |

flood 38°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 1710 | 0.69 |
| 2 | 430 | 1.37 |
| 3 | 190 | 2.06 |
| 4 | 110 | 2.75 |
| 5 | 70 | 3.43 |

flood 40°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 1750 | 0.72 |
| 2 | 440 | 1.44 |
| 3 | 190 | 2.16 |
| 4 | 110 | 2.88 |
| 5 | 70 | 3.60 |

wide flood 64°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 735 | 1.24 |
| 2 | 184 | 2.48 |
| 3 | 82 | 3.72 |
| 4 | 46 | 4.96 |
| 5 | 29 | 6.19 |



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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 | LMF × RSMF × LLMF × LSF | | RSMF ^a | Room Surface Maintenance Factor | |
| MF | Maintenance Factor | | LLMF | Lamp Lumens Maintenance Factor | |
| LMF ^a | Luminaire 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 | 31 |
| B13 | 40 |
| B16 | 50 |
| B20 | 62 |
| B25 | 78 |
| C10 | 52 |
| C13 | 67 |
| C16 | 85 |
| C20 | 104 |
| C25 | 130 |

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

OVAL FILTER

| TYPE | COLOUR | ARTICLE NUMBER(S) |
|----------|-----------|-------------------|
| 60 x 15° | jet black | 080-5900020 |

