



Project / Type

Notes

Count / Date



220-240V

360° rotation

X-PERT

X-PERT

General

Ceiling , Track

tilt max 310°

rotation 360°

black , RAL9005 ¹

IP20

576 lm

LED

4000 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 94 , R_f: 87 , R_(f-15): 90

MR 0.86

MDER 0.78

Optical

super spot

beam angle 6°

PstLM ≤ 1.0 ²

SVM ≤ 0.4 ²

Track light made of die-cast aluminium; surface black 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 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; including high quality aluminium reflector with spherical reflector; high gloss anodised; neutral colour reflection through absolute freedom from interference colour; for brilliant object staging; precise radiation characteristic with 6° beam; installed and exchanged without tools; optical attachments available as accessories; 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 dimmable 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

10.9 W

PC1 220-240V

53 lm/W

1 DALI Addr.

Physical

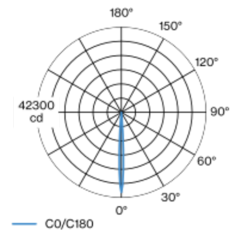
diameter 70 mm

height 98 mm

0.9 kg

set screw (tool required)

Light distribution



super spot 6°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 39600 | 0.10 |
| 2 | 9900 | 0.21 |
| 3 | 4400 | 0.31 |
| 4 | 2500 | 0.41 |
| 5 | 1600 | 0.51 |

Product drawing



¹ RAL code ² Value of containing product at full load (undimmed)

Installation instructions

Lighting calculator



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Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF | 0.98 | 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 | 100 |
| B13 | 129 |
| B16 | 160 |
| B20 | 200 |
| C10 | 166 |
| C13 | 216 |
| C16 | 272 |
| C20 | 332 |

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 |

