



Project / Type _____

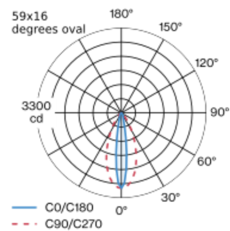
Notes _____

Count / Date _____



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 ≤ 2 SDCM; CRI ≥ 90 ; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; precise radiation characteristic with 16°x59° beam (oval filter); degree of protection IP20; PC1; 220-240 V; 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;

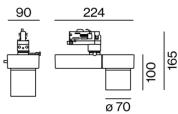
Light distribution



oval 16°

| h (m) | EO° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 2920 | 0.28 |
| 2 | 730 | 0.56 |
| 3 | 320 | 0.84 |
| 4 | 180 | 1.12 |
| 5 | 120 | 1.40 |

Product drawing



General

Ceiling | Track _____

tilt max 310° _____

rotation 360° _____

black | RAL 9005 ¹ _____

IP20 _____

1070 lm _____

LED

4000 K _____

CRI ≥ 90 _____

L85 / 50000 h _____

initial MacAdam ≤ 2 SDCM _____

R_g: 94 | R_f: 87 | R_{t(1-5)}: 90 _____

MR 0.86 | MDER 0.78 _____

Optical

oval | beam angle 16°x59° _____

PstLM $\leq 1.0^2$ ³ | SVM $\leq 0.4^2$ ³ _____

Electrical

DIM POT1 _____

PC1 | 220-240 V _____

system 14.7 W _____

system 73 lm/W ⁴ _____

Physical

diameter 70 mm | height 98 mm _____

0.92 kg _____

tool-free fixation _____

¹ RAL code ² 59x16 degrees oval
³ Value of containing product at full load (undimmed)
⁴ incl. consideration of optical losses, internal control unit losses & operating device efficiency

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 Factor | |

^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 |

Components

OVAL FILTER

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

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 | ARTICLE NUMBER(S) |
|----------|-------------------|
| 60 x 15° | 080-5900020 |

