

VARO 80 S

track

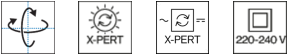
180-6422217F



| |
|----------------|
| Project / Type |
| Notes |
| Count / Date |



Track light made of die-cast aluminium; surface traffic white powder coated; 355° rotatable and 90° tiltable; integrated converter in the plastic adapter; 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 3500 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90 ; min. 80% 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 39° beam; installed and exchanged without tools; optical attachments available as accessories; optical attachments can be combined; accessories are listed separately; degree of protection IP20; PC2; 220-240 V; incl. converter, non dimmable; adapter for toolless insertion or movement on a variety of 3-phase power tracks; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;



General

| |
|--------------------------|
| Ceiling Track |
| tilt max 90° |
| rotation 355° |
| traffic white RAL 9016 |
| IP20 |
| 2790 lm |

LED

| |
|---|
| 3500 K |
| CRI ≥ 90 |
| L80 / 50000 h |
| initial MacAdam ≤ 2 SDCM |
| R _g : 99 R _f : 92 R _{t(1-15)} : 93 |
| MR 0.61 MDER 0.55 |

Optical

| |
|---|
| flood beam angle 39° |
| PstLM ≤ 1.0 ¹ SVM ≤ 0.4 ¹ |

Electrical

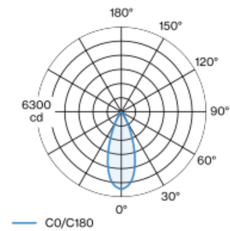
| |
|------------------------------|
| non DIM |
| PC2 220-240 V |
| system 21.1 W |
| system 132 lm/W ² |

Physical

| |
|-------------------------------|
| diameter 87 mm height 80 mm |
| 0.5 kg |

¹ Value of containing product at full load (undimmed)
² incl. consideration of optical losses, internal control unit losses & operating device efficiency

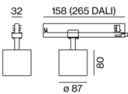
Light distribution



flood 39°

| h (m) | EO° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 5730 | 0.70 |
| 2 | 1430 | 1.40 |
| 3 | 640 | 2.10 |
| 4 | 360 | 2.80 |
| 5 | 230 | 3.50 |

Product drawing



Installation instructions



Lighting calculator



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Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF | 0.977 | 0.94 | 0.905 | 0.871 | 0.838 |
| 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 |
|--------------------------------|--------------------|
| B13 | 42 |
| B16 | 53 |
| B20 | 66 |
| C13 | 71 |
| C16 | 90 |
| C20 | 110 |

Optical accessories

HONEYCOMB LOUVER

Ø (MM)
75

ARTICLE NUMBER(S)
080-6401118



Optical accessories

LINEAR PRISMATIC LENS

Ø (MM)
75

ARTICLE NUMBER(S)
080-6402110P



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Optical accessories

SNOOT short

Ø (MM)
66

ARTICLE NUMBER(S)
080-6403118



SNOOT medium

Ø (MM)
66

ARTICLE NUMBER(S)
080-6403218



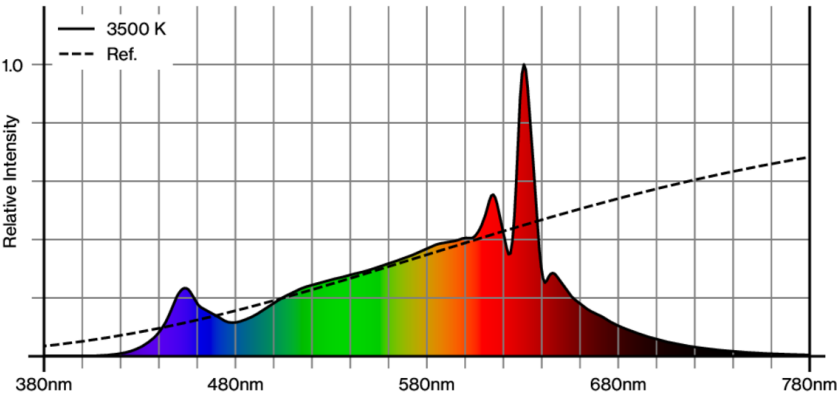
SNOOT angle

Ø (MM)
66

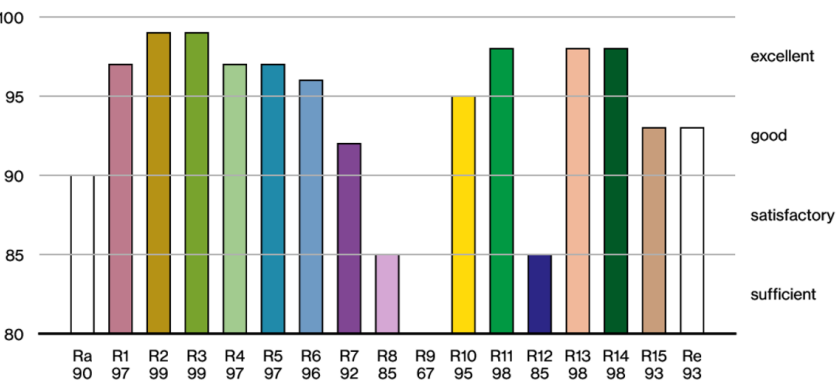
ARTICLE NUMBER(S)
080-6403318



Colour rendering



CRI/R_a ≥ 95 R_e ≥ 93 (3500 K)



[180-6422217F] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.

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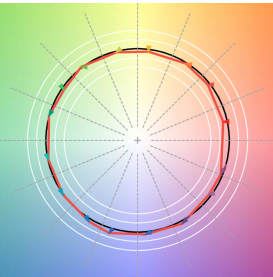


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TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

