

VARO 110 S

track
180-6530038F



Project / Type

Notes

Count / Date



Track light made of die-cast aluminium; surface black 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 3000 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 40° 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. DALI-2 converter; 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°

black | RAL 9005 ¹

IP20

3200 lm

LED

3000 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 99 | R_f: 92 | R₍₁₋₁₅₎: 93

MR 0.61 | MDER 0.55

Optical

flood | beam angle 40°

Electrical

DALI-2

PC2 | 220-240 V

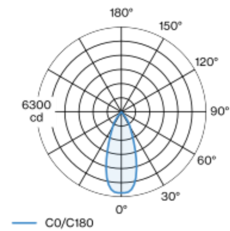
system 23.4 W

system 137 lm/W ²

Physical

diameter 110 mm | height 110 mm

Light distribution



| flood 40° | | | |
|-----------|----------|-------|--|
| h (m) | EO° (lx) | ø (m) | |
| 1 | 6010 | 0.73 | |
| 2 | 1500 | 1.46 | |
| 3 | 670 | 2.18 | |
| 4 | 380 | 2.91 | |
| 5 | 240 | 3.64 | |

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 | 0.975 | 0.944 | 0.913 | 0.883 | 0.854 |
| LSF | 1 | 1 | 1 | 1 | 1 |

MF

LMF × RSMF × LLMF × LSF

MF

Maintenance Factor

LMF^a

Luminaire Maintenance Factor

RSMF^a

Room Surface Maintenance Factor

LLMF

Lamp Lumens 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.

Optical accessories

HONEYCOMB LOUVER

Ø (MM)

106

ARTICLE NUMBER(S)

080-6501118



WIDE FLOOD LENS

Ø (MM)

106

ARTICLE NUMBER(S)

080-6502110W



OVAL LENS

Ø (MM)

106

ARTICLE NUMBER(S)

080-6502210



SNOOT short

Ø (MM)

97

ARTICLE NUMBER(S)

080-6503118



SNOOT medium

Ø (MM)

97

ARTICLE NUMBER(S)

080-6503218



SNOOT angle

Ø (MM)

97

ARTICLE NUMBER(S)

080-6503318

