

VARO 110 S

track

180-6530238M



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 3500 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 25° 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

3190 lm

LED

3500 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 97 | R_f: 90 | R_{t(1-15)}: 93

MR 0.73 | MDER 0.66

Optical

medium | beam angle 25°

Electrical

DALI-2

PC2 | 220-240 V

system 23.4 W

system 136 lm/W ²

Physical

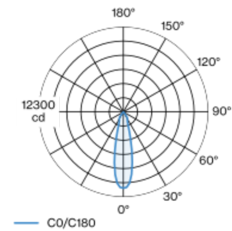
diameter 110 mm | height 110 mm

0.67 kg

¹ RAL code

² incl. consideration of optical losses, internal control unit losses & operating device efficiency

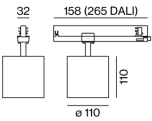
Light distribution



medium 25°

h (m)	E0° (lx)	ø (m)
1	11000	0.45
2	2800	0.90
3	1200	1.35
4	700	1.81
5	400	2.26

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

