

VARO 110 S

180-6530138M



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 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 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 220-240V; 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 , RAL9005 ¹ _____

IP20 _____

3200 lm _____

LED

4000 K _____

CRI ≥ 90 _____

initial MacAdam ≤ 3 SDCM _____

R_g: 100 , R_f: 92 , R₍₁₋₁₅₎: 91 _____

MR 0.78 _____

MDER 0.71 _____

Optical

medium _____

beam angle 25° _____

Electrical

DALI-2 _____

23.4 W _____

PC2 220-240V _____

137 lm/W _____

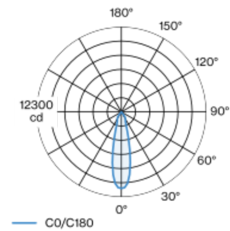
Physical

diameter 110 mm _____

height 110 mm _____

¹ RAL code

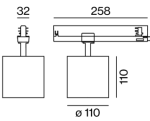
Light distribution



medium 25°

h (m)	E0° (lx)	ø (m)
1	11100	0.45
2	2800	0.90
3	1200	1.35
4	700	1.81
5	400	2.26

Product drawing



Installation instructions



Lighting calculator



[180-6530138M] 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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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 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.

Optical accessories

HONEYCOMB LOUVER

Ø (MM)	ARTICLE NUMBER(S)
106	080-6501118

WIDE FLOOD LENS

Ø (MM)	ARTICLE NUMBER(S)
106	080-6502110W

OVAL LENS

Ø (MM)	ARTICLE NUMBER(S)
106	080-6502210

SNOOT

TYPE	Ø (MM)	ARTICLE NUMBER(S)
short	97	080-6503118
medium	97	080-6503218
angle	97	080-6503318

