

# VARO 110 S

track

180-6530237M



Project / Type

Notes

Count / Date



Track light made of die-cast aluminium; surface 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 ≤ 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°

white | RAL 9016 <sup>1</sup>

IP20

3190 lm

### LED

3500 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 97 | R<sub>f</sub>: 90 | R<sub>t(1-15)</sub>: 93

MR 0.73 | MDER 0.66

### Optical

medium | beam angle 25°

### Electrical

DALI-2

PC2 | 220-240 V

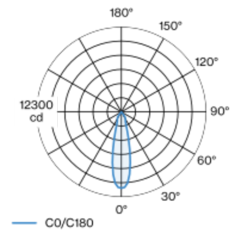
system 23.4 W

system 136 lm/W <sup>2</sup>

### Physical

diameter 110 mm | height 110 mm

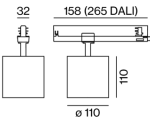
### Light distribution



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		RSMF <sup>a</sup>	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF <sup>a</sup>	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

<sup>a</sup> 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

