

# VARO 110 S

180-6531137F



Project / Type \_\_\_\_\_

Notes \_\_\_\_\_

Count / Date \_\_\_\_\_



220-240V

355°

X-PERT

X-PERT

## General

Ceiling , Track

tilt max 90°

rotation 355°

white , RAL9016 <sup>1</sup>

IP20

4550 lm

## LED

4000 K

CRI ≥ 90

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 100 , R<sub>f</sub>: 92 , R<sub>(1-15)</sub>: 91

MR 0.78

MDER 0.71

## Optical

flood

beam angle 40°

## Electrical

DALI-2

36 W

PC2 220-240V

126 lm/W

## Physical

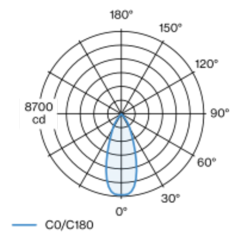
diameter 110 mm

height 110 mm

<sup>1</sup> RAL code

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 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 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 220-240V; 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;

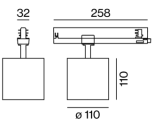
## Light distribution



flood 40°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 8540     | 0.73  |
| 2     | 2130     | 1.46  |
| 3     | 950      | 2.18  |
| 4     | 530      | 2.91  |
| 5     | 340      | 3.64  |

## Product drawing



## Installation instructions



## Lighting calculator



[180-6531137F] 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               | 0.977  | 0.95   | 0.923  | 0.897  | 0.872  |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

Lamp Survival Faktor

<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) | 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       |

