

# VARO 80 S

track  
180-6423017M



Project / Type

Notes

Count / Date



**General**

Ceiling , Track

tilt max 90°

rotation 355°

white , RAL9016 <sup>1</sup>

IP20

3150 lm

**LED**

3000 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R<sub>g</sub>: 98 , R<sub>f</sub>: 91 , R<sub>(1-15)</sub>: 93

MR 0.54

MDER 0.49

**Optical**

medium

beam angle 27°

PstLM ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

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 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% 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 27° 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. converter, non dimmable; 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;

**Electrical**

non DIM

system 25.3 W

PC2 220-240V

system 125 lm/W<sup>3</sup>

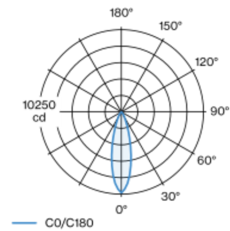
**Physical**

diameter 87 mm

height 80 mm

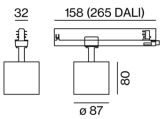
0.6 kg

## Light distribution



| medium 27° |          |       |
|------------|----------|-------|
| h (m)      | E0° (lx) | ø (m) |
| 1          | 10100    | 0.49  |
| 2          | 2500     | 0.97  |
| 3          | 1100     | 1.46  |
| 4          | 600      | 1.95  |
| 5          | 400      | 2.43  |

## Product drawing



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. optical losses and the efficiency of the operating device (converter)

## Installation instructions



## Lighting calculator



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## Maintenance Factors

| Operating Time [h] | 10 000                       | 20 000 | 30 000            | 40 000                          | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF               | 0.977                        | 0.94   | 0.905             | 0.871                           | 0.838  |
| 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 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.

## Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B16                            | 27                 |
| C16                            | 44                 |

## Optical accessories

### HONEYCOMB LOUVER

Ø (MM)  
75

ARTICLE NUMBER(S)  
080-640118



## Optical accessories

### LINEAR PRISMATIC LENS

Ø (MM)  
75

ARTICLE NUMBER(S)  
080-6402110P



## Optical accessories

### SNOOT

| TYPE   | Ø (MM) | ARTICLE NUMBER(S) |
|--------|--------|-------------------|
| short  | 66     | 080-6403118       |
| medium | 66     | 080-6403218       |
| angle  | 66     | 080-6403318       |

