

VARO 110 S

track
180-6530117F



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Track _____

tilt max 90° _____

rotation 355° _____

white , RAL 9016 ¹ _____

IP20 _____

3250 lm _____

LED

4000 K _____

CRI ≥ 90 _____

L85 / 50000 h _____

initial MacAdam ≤ 3 SDCM _____

R_g: 100 , R_f: 92 , R_{f(1-5)}: 91 _____

MR 0.78 _____

MDER 0.71 _____

Optical

flood _____

beam angle 40° _____

Electrical

non DIM _____

220-240 V _____

system 23.4 W _____

system 139 lm/W² _____

PC2 _____

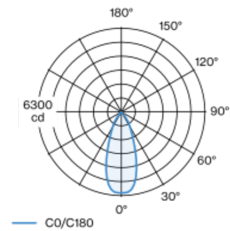
Physical

diameter 110 mm _____

height 110 mm _____

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; 220-240 V; 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;

Light distribution



flood 40°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1 | 6100 | 0.73 |
| 2 | 1520 | 1.46 |
| 3 | 680 | 2.18 |
| 4 | 380 | 2.91 |
| 5 | 240 | 3.64 |

Product drawing



¹ RAL code
² incl. consideration of optical losses, internal control unit losses & operating device efficiency

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 ^a | Room Surface Maintenance Factor |
| MF | Maintenance Factor | LLMF | Lamp Lumens Maintenance Factor |
| LMF ^a | Luminaire 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) | 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 |

