

VARO 110 S

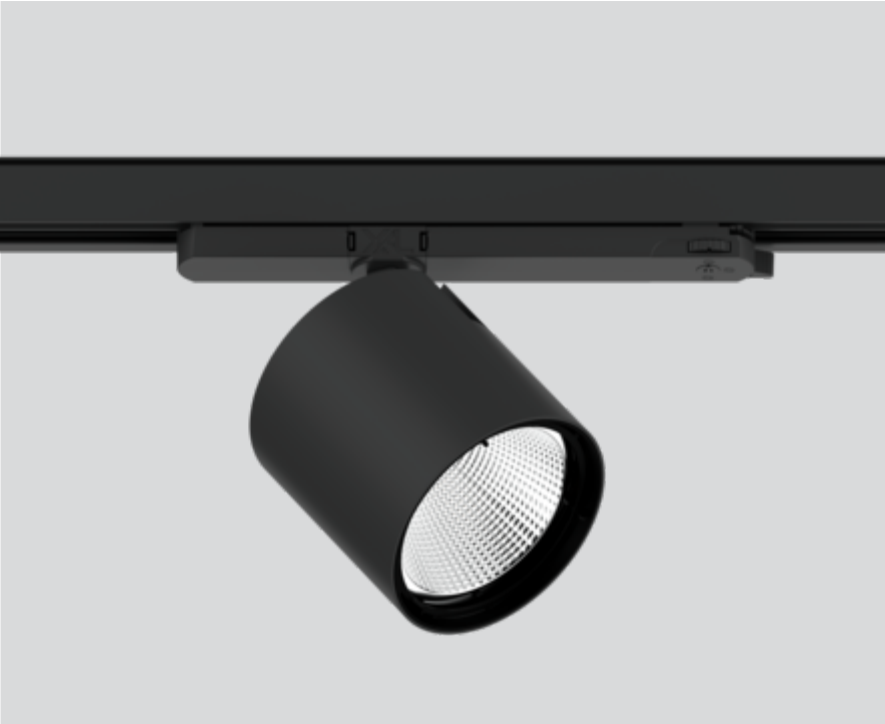
180-6531018F



Project / Type

Notes

Count / Date



General

Ceiling , Track

tilt max 90°

rotation 355°

black , RAL9005 ¹

IP20

4480 lm

LED

3000 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 99 , R_f: 92 , R₍₁₋₁₅₎: 93

MR 0.61

MDER 0.55

Optical

flood

beam angle 40°

Electrical

non DIM

36 W

PC2 220-240V

124 lm/W

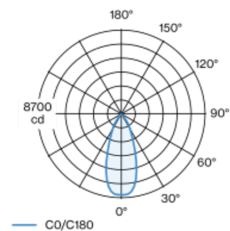
Physical

diameter 110 mm

height 110 mm

¹ RAL code

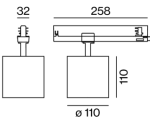
Light distribution



flood 40°

| h (m) | EO ⁹ (lx) | ø (m) |
|-------|----------------------|-------|
| 1 | 8410 | 0.73 |
| 2 | 2100 | 1.46 |
| 3 | 930 | 2.18 |
| 4 | 530 | 2.91 |
| 5 | 340 | 3.64 |

Product drawing



Installation instructions



Lighting calculator



[180-6531018F] 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

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 |

