

SQUADRO double-sided wallwasher

track
149-2220217B



Project / Type

Notes

Count / Date



General

Ceiling , Track

tilt min -10°

tilt max 20°

rotation 350°

white , RAL 9016 ¹

IP20

4970², 4980³, 9950⁴ lm

LED

3500 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R_g: 99 , R_r: 92 , R_{t(1-5)}: 93

MR 0.61

MDER 0.55

Optical

shelf / wall floor washer

PstLM ≤ 1.0^{3 2 4 5}

SVM ≤ 0.4^{3 2 4 5}

Electrical

non DIM

220-240 V

system 72²-36³ W

system 138 lm/W⁶

PC2

Physical

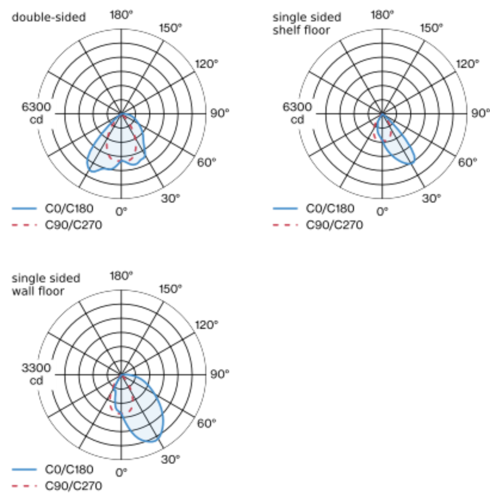
length 140 mm

width 150 mm

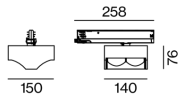
height 76 mm

Tracked spotlight in die cast aluminium with 2x2-lamp design; surface white powder coated; converter integrated into spotlight head; heat sink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; with COB (Chip on Board) technology for maximum efficiency; light colour 3500 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; Aisle spotlight 1x shelf / 1x wall floor washer with special, multi-free-form, facet effect surface reflectors for high precision light control; precise shelf and aisle zone lighting, optimum longitudinal glare control for high viewing comfort in the aisle zone; adjustable light modules (tiltable +20° to -10°); 350° rotatable; degree of protection IP20; IP 40 protection glass available as an accessory; accessories are listed separately; PC2; 220-240 V; incl. converter, non dimmable; adapter for toolless insertion or movement on a variety of 3-phase power tracks; including attachment for linear alignment of the spotlights; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



¹ RAL code ² single sided shelf floor ³ single sided wall floor
⁴ double-sided
⁵ Value of containing product at full load (undimmed)
⁶ FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.

Installation instructions



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

Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10 | 33 |
| B13 | 43 |
| B16 | 53 |
| B20 | 67 |
| C10 | 53 |
| C13 | 69 |
| C16 | 85 |
| C20 | 107 |

Optical accessories

IP40 PROTECTION GLASS

| | |
|----------------------------|-------------------|
| TYPE | ARTICLE NUMBER(S) |
| 2 x 2 lamps / double-sided | 049-2920010 |

