

# SQUADRO double-sided wallwasher

track  
149-2220218S



Project / Type

Notes

Count / Date



|                               |
|-------------------------------|
| General                       |
| Ceiling   Track               |
| tilt min -10°                 |
| tilt max 20°                  |
| rotation 350°                 |
| black   RAL 9005 <sup>1</sup> |
| IP20                          |
| 9940 lm                       |

|   |
|---|
| LED   |
| 3500 K  |
| CRI ≥ 90  |
| L80 / 50000 h   |
| initial MacAdam ≤ 2 SDCM  |
| R <sub>g</sub> : 99   R <sub>r</sub> : 92   R <sub>t(1-15)</sub> : 93 |
| MR 0.61   MDER 0.55   |

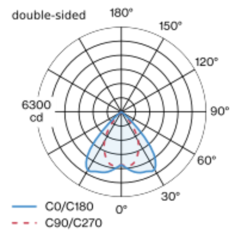
|   |
|---|
| Optical   |
| shelf floor washer  |
| PstLM ≤ 1.0 <sup>2</sup> <sup>3</sup> 4   SVM ≤ 0.4 <sup>2</sup> <sup>3</sup> 4 |

|                              |
|------------------------------|
| Electrical                   |
| non DIM                      |
| PC2   220-240 V              |
| system 72 W                  |
| system 138 lm/W <sup>5</sup> |

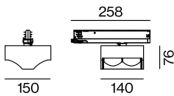
|   |
|---|
| Physical                                    |
| length 140 mm   width 150 mm   height 76 mm |

Tracked spotlight in die cast aluminium with 2x2-lamp design; surface black 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 shelf 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



<sup>1</sup> RAL code <sup>2</sup> double-sided <sup>3</sup> single-sided  
<sup>4</sup> Value of containing product at full load (undimmed)  
<sup>5</sup> 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               | 0.977                        | 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 Factor            |        |

<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 |
|--------------------------------|--------------------|
| 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       |

