

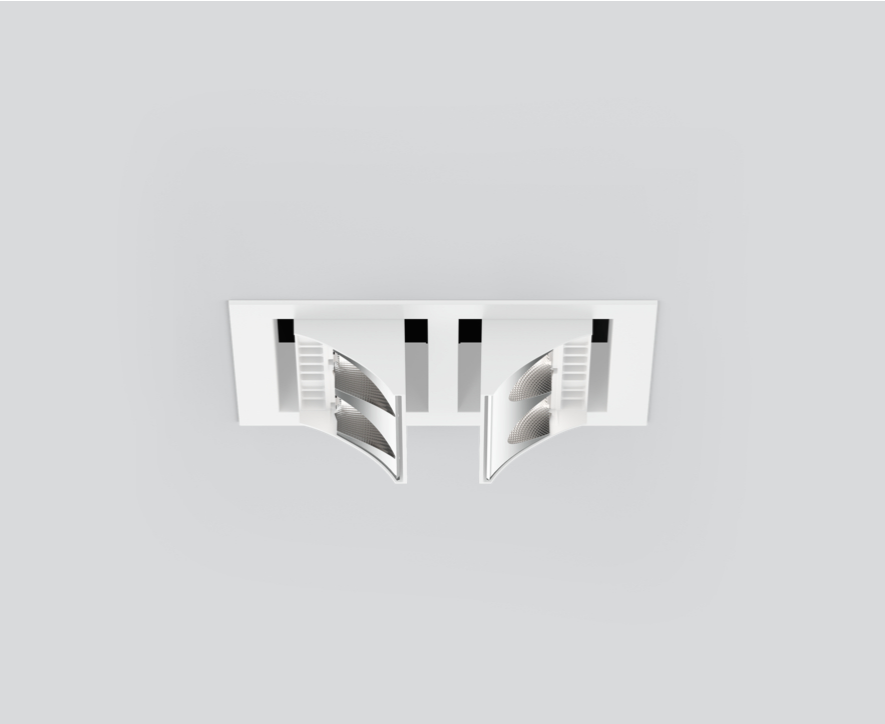
# SQUADRO double-sided wallwasher

trim

049-2020017B

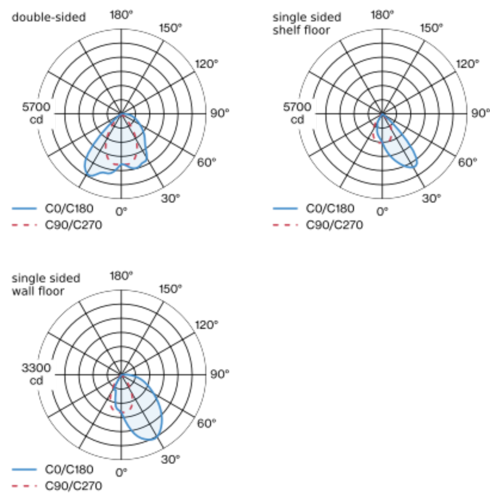


|                |  |
|----------------|--|
| Project / Type |  |
| Notes          |  |
| Count / Date   |  |

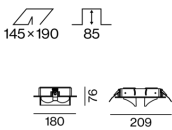


Recessed ceiling spotlight in die cast aluminium with 2x2-lamp design; surface white powder coated; with wrap around edge; suitable for ceiling thickness of 2-25 mm; installation without tools using snap spring closure; heat sink integrated into luminaire geometry for optimum thermal management and passive cooling of LEDs; with COB (Chip on Board) technology for maximum efficiency; light colour 3000 K; binning initial MacAdam  $\leq 2$  SDCM; CRI  $\geq 90$ ; 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°); degree of protection IP20; IP 40 protection glass available as an accessory; accessories are listed separately; PC2 220-240V; incl. converter, non dimmable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



## General

|  |
|--|
| Ceiling , Recessed   |
| tilt min -10°  |
| tilt max 20°   |
| white , RAL9016 <sup>1</sup>                                 |
| IP20   |
| 4820 <sup>2</sup> , 4830 <sup>3</sup> , 9650 <sup>4</sup> lm |

## LED

|  |
|--|
| 3000 K   |
| CRI $\geq 90$  |
| L80 / 50000 h  |
| initial MacAdam $\leq 2$ SDCM  |
| R <sub>g</sub> : 98 , R <sub>f</sub> : 91 , R <sub>(1-15)</sub> : 93 |
| MR 0.54  |
| MDER 0.49  |

## Optical

|                               |
|-------------------------------|
| shelf / wall floor washer     |
| PstLM $\leq 1.0$ <sup>5</sup> |
| SVM $\leq 0.4$ <sup>5</sup>   |

## Electrical

|   |
|---|
| non DIM   |
| system 36 <sup>2</sup> , 36 <sup>3</sup> , 71 <sup>4</sup> W                    |
| PC2 220-240V  |
| system 134 <sup>2</sup> , 134 <sup>3</sup> , 136 <sup>4</sup> lm/W <sup>6</sup> |

## Physical

|               |
|---------------|
| length 180 mm |
| width 209 mm  |
| height 76 mm  |

## Cutout

|                              |
|------------------------------|
| length 145 mm                |
| width 190 mm                 |
| min. ceiling thickness 2 mm  |
| max. ceiling thickness 25 mm |
| recessed depth 85 mm         |

<sup>1</sup> RAL code <sup>2</sup> single sided shelf floor <sup>3</sup> single sided wall floor  
<sup>4</sup> double-sided  
<sup>5</sup> Value of containing product at full load (undimmed)  
<sup>6</sup> incl. optical losses and the efficiency of the operating device (converter)

## Installation instructions



# SQUADRO double-sided wallwasher

trim  
049-2020017B



Project / Type

Notes

Count / Date

## 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 |
|--------------------------------|--------------------|
| B10                            | 8                  |
| B13                            | 10                 |
| B16                            | 13                 |
| B20                            | 16                 |
| C10                            | 13                 |
| C13                            | 17                 |
| C16                            | 22                 |
| C20                            | 28                 |

## Optical accessories

### IP40 PROTECTION GLASS

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

