

# SQUADRO double-sided wallwasher

track  
149-2220118B



Project / Type

Notes

Count / Date



General
Ceiling , Track
tilt min -10°
tilt max 20°
rotation 350°
black , RAL 9005 <sup>1</sup>
IP20
4980 <sup>2</sup> , 4990 <sup>3</sup> , 9970 <sup>4</sup> lm

LED
4000 K
CRI ≥ 90
L80 / 50000 h
initial MacAdam ≤ 2 SDCM
R <sub>g</sub> : 100 , R <sub>f</sub> : 92 , R <sub>f(1-15)</sub> : 91
MR 0.78
MDER 0.71

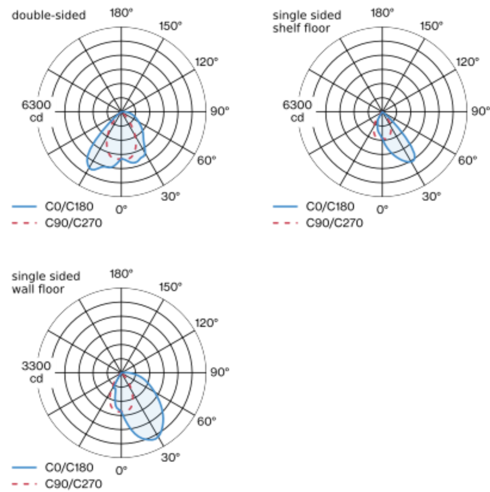
Optical
shelf / wall floor washer
PstLM ≤ 1.0 <sup>2 3 4 5</sup>
SVM ≤ 0.4 <sup>2 3 4 5</sup>

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 4000 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;

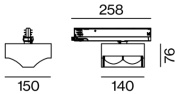
Electrical
non DIM
220-240 V
system 36 <sup>2</sup> -72 <sup>3</sup> W
system 138 <sup>2</sup> , 139 <sup>3</sup> , 138 <sup>4</sup> lm/W <sup>6</sup>
PC2

Physical
length 140 mm
width 150 mm
height 76 mm

## Light distribution



## Product drawing



<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. 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 <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	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

