

# SQUADRO double-sided wallwasher

trim

049-2020238B



Project / Type

Notes

Count / Date



## General

Ceiling , Recessed

tilt min -10°

tilt max 20°

black , RAL 9005 <sup>1</sup>

IP20

4880<sup>2</sup>, 4880<sup>3</sup>, 9770<sup>4</sup> lm

## LED

3500 K

CRI ≥ 90

L80 / 50000 h

initial MacAdam ≤ 2 SDCM

R<sub>g</sub>: 99 , R<sub>f</sub>: 92 , R<sub>(1-15)</sub>: 93

MR 0.61

MDER 0.55

## Optical

shelf / wall floor washer

PstLM ≤ 1.0<sup>2 4 3 5</sup>

SVM ≤ 0.4<sup>2 4 3 5</sup>

## Electrical

DALI-2

220-240 V

system 36<sup>2</sup>, 36<sup>3</sup>, 71<sup>4</sup> W

system 136<sup>2</sup>, 136<sup>3</sup>, 138<sup>4</sup> lm/W<sup>6</sup>

PC2

1 DALI Addr.

## 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 wall floor <sup>3</sup> single sided shelf floor

<sup>4</sup> double-sided

<sup>5</sup> Value of containing product at full load (undimmed)

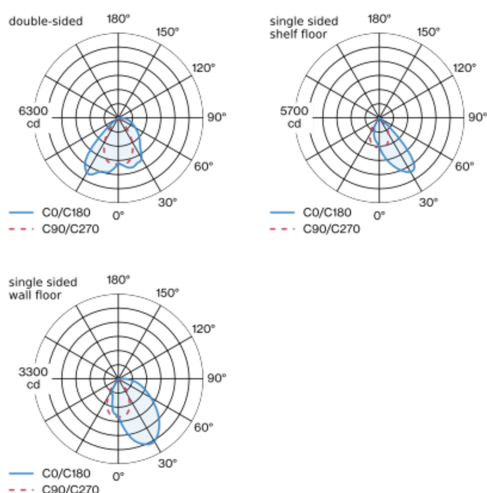
<sup>6</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

## Installation instructions

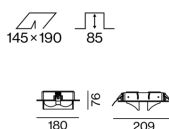


Recessed ceiling spotlight in die cast aluminium with 2x2-lamp design; surface black powder coated; with wrap around edge; suitable for ceiling thickness of 2-25 mm; installation without tools using snap spring closure; heat sink integrated into luminaire geometry for optimum thermal management and passive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

## Light distribution



## Product drawing



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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	6
B13	8
B16	10
B20	12
C10	10
C13	13
C16	16
C20	20

## Optical accessories

### IP40 PROTECTION GLASS

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

