

# SPIO 20 wallwasher/floor

trim

048-16304188W 002-90788



Project / Type

Notes

Count / Date



## General

Ceiling , Recessed

rotation 360°

black , RAL9005 <sup>1</sup>

IP20

399 lm

## LED

2700 K

CRI ≥ 90

L95 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 104 , R<sub>f</sub>: 88 , R<sub>f(1-15)</sub>: 89

MR 0.5

MDER 0.46

## Optical

wallwasher floor

beam angle 52°

PstLM ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

## Electrical

DALI-2

system 7.9 W

inset 5.9 W

5.6 Vf

1050 mA

PC2 220-240V

system 51 lm/W<sup>3</sup>

inset 67 lm/W<sup>4</sup>

1 DALI Addr.

## Physical

trim

diameter 35 mm

height 47 mm

## Cutout

diameter 26 mm

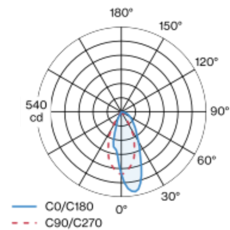
min. ceiling thickness 2 mm

max. ceiling thickness 25 mm

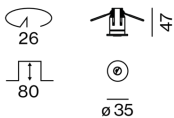
recessed depth 80 mm

Round recessed spotlight in aluminium; surface black powder coated; with trim; suitable for ceiling thickness of 2-25 mm; installation without tools using snap spring closure; passive cooling of the LEDs through improved heat sink geometry; light colour 2700 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 95% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; with specially computed, asymmetrical reflector for homogeneous lighting intensity; high quality reflector with micro-faceted, aluminum-vaporised surface; no multiple shadows; uncluttered ceiling look through recessed lighting level; reduced light-emitting surface (only ø 13 mm); degree of protection IP20; PC2 220-240V; incl. DALI-2 converter; 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> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. optical losses and the efficiency of the operating device (converter)  
<sup>4</sup> incl. optical losses

## Installation instructions



## Lighting calculator



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### Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	1	0.99	0.98	0.97	0.96
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	37
B16	60
C10	37
C16	60

### Components

#### POWER SUPPLY

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
44 W	143-43-30	002-90788



#### Optional electrical accessories

#### DIN RAIL POWER SUPPLY

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
160 W	72-90-63	005-6520210



#### DIN RAIL LED DRIVER

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
DALI-2   200-1050 mA   2 x 42W	36-88-59	005-6121030

