



Project / Type _____

Notes _____

Count / Date _____



General

Showcase | Recessed
 black | RAL 9021¹
 IP20
 Interior
 1200 lm
 1020 lm/m
 optical inset 73 lm/W²

LED

3000 K
 CRI ≥ 97
 L85 / 50000 h
 initial MacAdam ≤ 3 SDCM
 R_g: 99 | R_r: 96 | R_{t(1-15)}: 97
 MR 0.68 | MDER 0.61

Optical

Opal | opal (lambertsch)

Electrical

excl. driver
 PC3 | 24 V
 fixture 21.8 W
 optical inset 16.5 W
 19 W/m
 24 V

Physical

length 1200 mm | width 9 mm | height 9 mm
 0.1 kg

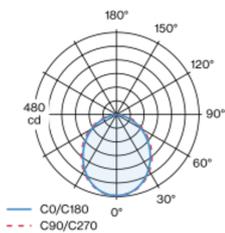
¹ RAL code ² incl. consideration of optical losses

Installation instructions



Miniature linear light inset made of aluminium; tubular design; surface lacquered in black; optionally for recessed or surface mounting (available as an accessory); plug and play electrical connector system for toolless mounting; different connectors for mechanical and electrical connection available - for flexible system design (available as an accessory); completely homogeneously illuminated, satinised PMMA cover; light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 97; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; light inset rotatable; degree of protection IP20; PC3; 24 V; accessories are listed separately; light source replaceable by an authorized professional;

Light distribution



Product drawing





Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF | 0.979 | 0.955 | 0.931 | 0.908 | 0.885 |
| LSF | 1 | 1 | 1 | 1 | 1 |

| | | | |
|------------------|------------------------------|-------------------|---------------------------------|
| MF | LMF × RSMF × LLMF × LSF | RSMF ^a | Room Surface Maintenance Factor |
| MF | Maintenance Factor | LLMF | Lamp Lumens Maintenance Factor |
| LMF ^a | Luminaire Maintenance Factor | LSF | Lamp Survival Factor |

^a 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.

Mounting accessories

MOUNTING CHANNEL 90

| COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|-----------------|------------|-------------------|
| white aluminium | 230-17-11 | 011-9100206 |
| black | 230-17-11 | 011-9100208 |
| white aluminium | 430-17-11 | 011-9100306 |
| black | 430-17-11 | 011-9100308 |
| white aluminium | 630-17-11 | 011-9100406 |
| black | 630-17-11 | 011-9100408 |
| white aluminium | 830-17-11 | 011-9100506 |
| black | 830-17-11 | 011-9100508 |
| white aluminium | 1030-17-11 | 011-9100606 |
| black | 1030-17-11 | 011-9100608 |
| white aluminium | 1230-17-11 | 011-9100706 |
| black | 1230-17-11 | 011-9100708 |



MOUNTING CHANNEL 90 ANTI-GLARE

| COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|-----------------|------------|-------------------|
| white aluminium | 230-17-15 | 011-9101206 |
| black | 230-17-15 | 011-9101208 |
| white aluminium | 430-17-15 | 011-9101306 |
| black | 430-17-15 | 011-9101308 |
| white aluminium | 630-17-15 | 011-9101406 |
| black | 630-17-15 | 011-9101408 |
| white aluminium | 830-17-15 | 011-9101506 |
| black | 830-17-15 | 011-9101508 |
| white aluminium | 1030-17-15 | 011-9101606 |
| black | 1030-17-15 | 011-9101608 |
| white aluminium | 1230-17-15 | 011-9101706 |
| black | 1230-17-15 | 011-9101708 |





Mounting accessories

MOUNTING CHANNEL 60

| COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|-----------------|------------|-------------------|
| white aluminium | 230-40-11 | 011-9102206 |
| black | 230-40-11 | 011-9102208 |
| white aluminium | 430-40-11 | 011-9102306 |
| black | 430-40-11 | 011-9102308 |
| white aluminium | 630-40-11 | 011-9102406 |
| black | 630-40-11 | 011-9102408 |
| white aluminium | 830-40-11 | 011-9102506 |
| black | 830-40-11 | 011-9102508 |
| white aluminium | 1030-40-11 | 011-9102606 |
| black | 1030-40-11 | 011-9102608 |
| white aluminium | 1230-40-11 | 011-9102706 |
| black | 1230-40-11 | 011-9102708 |



Mounting accessories

MOUNTING CHANNEL 45

| COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|-----------------|------------|-------------------|
| white aluminium | 230-17-11 | 011-9103206 |
| black | 230-17-11 | 011-9103208 |
| white aluminium | 430-17-11 | 011-9103306 |
| black | 430-17-11 | 011-9103308 |
| white aluminium | 630-17-11 | 011-9103406 |
| black | 630-17-11 | 011-9103408 |
| white aluminium | 830-17-11 | 011-9103506 |
| black | 830-17-11 | 011-9103508 |
| white aluminium | 1030-17-11 | 011-9103606 |
| black | 1030-17-11 | 011-9103608 |
| white aluminium | 1230-17-11 | 011-9103706 |
| black | 1230-17-11 | 011-9103708 |



MOUNTING CHANNEL 45 JUT-OUT

| COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|-----------------|------------|-------------------|
| white aluminium | 230-17-18 | 011-9104206 |
| black | 230-17-18 | 011-9104208 |
| white aluminium | 430-17-18 | 011-9104306 |
| black | 430-17-18 | 011-9104308 |
| white aluminium | 630-17-18 | 011-9104406 |
| black | 630-17-18 | 011-9104408 |
| white aluminium | 830-17-18 | 011-9104506 |
| black | 830-17-18 | 011-9104508 |
| white aluminium | 1030-17-18 | 011-9104606 |
| black | 1030-17-18 | 011-9104608 |
| white aluminium | 1230-17-18 | 011-9104706 |
| black | 1230-17-18 | 011-9104708 |





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Mounting accessories

MOUNTING CLIP 90 surface

COLOUR
black

ARTICLE NUMBER(S)
011-9100008



MOUNTING CLIP 60 surface

COLOUR
black

ARTICLE NUMBER(S)
011-9102008



MOUNTING CLIP 45 surface

COLOUR
black

ARTICLE NUMBER(S)
011-9103008



Mounting accessories

MOUNTING TOOL

ARTICLE NUMBER(S)
011-9190000



Mounting accessories

BLIND INSET

| COLOUR | Ø (MM) | ARTICLE NUMBER(S) |
|-----------------|--------|-------------------|
| white aluminium | 9 | 011-9109206 |
| black | 9 | 011-9109208 |
| white aluminium | 9 | 011-9109306 |
| black | 9 | 011-9109308 |
| white aluminium | 9 | 011-9109406 |
| black | 9 | 011-9109408 |
| white aluminium | 9 | 011-9109506 |
| black | 9 | 011-9109508 |
| white aluminium | 9 | 011-9109606 |
| black | 9 | 011-9109608 |
| white aluminium | 9 | 011-9109706 |
| black | 9 | 011-9109708 |





Electrical accessories

POWER SUPPLY 24V EU

| L-W-H (MM) | ARTICLE NUMBER(S) |
|------------|-------------------|
| 130-43-30 | 011-9212110 |
| 195-43-30 | 011-9212210 |
| 220-43-30 | 011-9212310 |
| 130-43-30 | 011-9212130 |
| 195-43-30 | 011-9212230 |
| 220-43-30 | 011-9212330 |



POWER SUPPLY 24V UL

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|------|------------|-------------------|
| | 153-41-32 | 011-9282110 |
| | 210-40-30 | 011-9282210 |
| 60 W | 250-40-30 | 011-9282310 |
| | 176-45-32 | 011-9282320 |
| | 176-45-32 | 011-9282330 |



Electrical accessories

FLEX CONNECTOR

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|------------------|------------|-------------------|
| electrical | | 011-9225100 |
| electrical 90° | 39-39-9 | 011-9225200 |



LINEAR CONNECTOR

| TYPE | ARTICLE NUMBER(S) |
|------------|-------------------|
| electrical | 011-9225300 |



Electrical accessories

EXTENSION CABLE

| TYPE | ARTICLE NUMBER(S) |
|---------------------------|-------------------|
| 1 × socket / 1 × plug | 011-9222120 |
| 1 × socket / 1 × plug | 011-9222140 |
| 1 × socket / 1 × plug | 011-9222180 |
| 1 × socket / 1 × plug 90° | 011-9222220 |
| 1 × socket / 1 × plug 90° | 011-9222240 |
| 1 × socket / 1 × plug 90° | 011-9222280 |

