



Project / Type

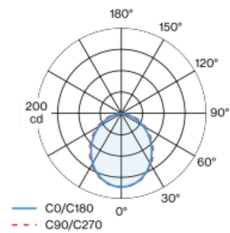
Notes

Count / Date



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 4000 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



General

Showcase , Recessed

black , RAL 9021 ¹

IP20

Interior

436 lm

1170 lm/m

optical inset 79 lm/W²

LED

4000 K

CRI ≥ 97

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 100 , R_f: 96 , R_{f(1-5)}: 98

MR 0.86

MDER 0.78

Optical

Opal

opal (lambertsch)

Electrical

excl. driver

24 V

fixture 7.3 W

optical inset 5.5 W

PC3

20 W/m

24 V

Physical

length 400 mm

width 9 mm

height 9 mm

0.05 kg

¹ RAL code ² incl. consideration of optical losses

Installation instructions





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 |





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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

| COLOUR | ARTICLE NUMBER(S) |
|--------|-------------------|
| black | 011-9100008 |



MOUNTING CLIP 60

| COLOUR | ARTICLE NUMBER(S) |
|--------|-------------------|
| black | 011-9102008 |



MOUNTING CLIP 45

| COLOUR | ARTICLE NUMBER(S) |
|--------|-------------------|
| black | 011-9103008 |



Mounting accessories

MOUNTING TOOL

| ARTICLE NUMBER(S) |
|-------------------|
| 011-9190000 |



Mounting accessories

BLIND INSET

| TYPE | COLOUR | Ø (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|--------|-------------------|
| 200 mm | white aluminium | 9 | 011-9109206 |
| 200 mm | black | 9 | 011-9109208 |
| 400 mm | white aluminium | 9 | 011-9109306 |
| 400 mm | black | 9 | 011-9109308 |
| 600 mm | white aluminium | 9 | 011-9109406 |
| 600 mm | black | 9 | 011-9109408 |
| 800 mm | white aluminium | 9 | 011-9109506 |
| 800 mm | black | 9 | 011-9109508 |
| 1000 mm | white aluminium | 9 | 011-9109606 |
| 1000 mm | black | 9 | 011-9109608 |
| 1200 mm | white aluminium | 9 | 011-9109706 |
| 1200 mm | black | 9 | 011-9109708 |





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Electrical accessories

POWER SUPPLY 24V EU

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|----------------|------------|-------------------|
| 18 W non dim | 130-43-30 | 011-9212110 |
| 35 W non dim | 195-43-30 | 011-9212210 |
| 60 W non dim | 220-43-30 | 011-9212310 |
| 18 W DALI-2 | 130-43-30 | 011-9212130 |
| 35 W DALI-2 | 195-43-30 | 011-9212230 |
| 60 W DALI-2 | 220-43-30 | 011-9212330 |



POWER SUPPLY 24V UL

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|----------------|------------|-------------------|
| 20 W non dim | 153-41-32 | 011-9282110 |
| 40 W non dim | 210-40-30 | 011-9282210 |
| 60 W non dim | 250-40-30 | 011-9282310 |
| 60 W 1-10 V | 176-45-32 | 011-9282320 |
| 60 W DALI-2 | 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 |

