



Project / Type

Notes

Count / Date



General

Showcase , Recessed

black , RAL9021 <sup>1</sup>

1190 lm/m

IP20

Interior

415 lm

LED

3000 K

CRI ≥ 95

L80 / 50000 h

photobio. safety RG 1 - low Risk

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 102 , R<sub>r</sub>: 94 , R<sub>(1-15)</sub>: 95

MR 0.61

MDER 0.55

Optical

asymmetric

Electrical

excl. driver

24 V

system 9.6 W

PC3 24V

inset 65 lm/W<sup>2</sup>

28 W/m

24 V

Physical

length 400 mm

width 9 mm

height 9 mm

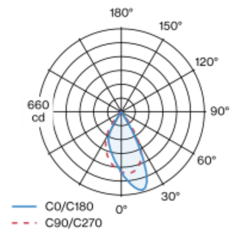
<sup>1</sup> RAL code <sup>2</sup> incl. optical losses

Installation instructions

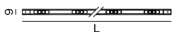


Miniature linear light inset made of aluminium; tubular design; surface lacquered in black; optionally for recessed or surface mounting (available as an accessory); plug and play electrical connector system for toolless mounting; different connectors for mechanical and electrical connection available - for flexible system design (available as an accessory); fitted with LED light points; light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 95; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; asymmetric radiation characteristic; light inset rotatable; degree of protection IP20; PC3 24V; photobiological safety according to IEC 62471 risk group RG 1 - low Risk; accessories are listed separately; light source 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               | 0.954  | 0.915  | 0.879  | 0.844  | 0.81   |
| 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.

## Mounting accessories

### MOUNTING CHANNEL 90

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



### MOUNTING CHANNEL 90 ANTI-GLARE

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





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Mounting accessories

MOUNTING CHANNEL 60

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



Mounting accessories

MOUNTING CHANNEL 45

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



MOUNTING CHANNEL 45 JUT-OUT

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





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Mounting accessories

MOUNTING CLIP 90

| TYPE    | COLOUR          | ARTICLE NUMBER(S) |
|---------|-----------------|-------------------|
| surface | white aluminium | 011-9100006       |
| surface | black           | 011-9100008       |



MOUNTING CLIP 60

| TYPE    | COLOUR          | ARTICLE NUMBER(S) |
|---------|-----------------|-------------------|
| surface | white aluminium | 011-9102006       |
| surface | black           | 011-9102008       |



MOUNTING CLIP 45

| TYPE    | COLOUR          | ARTICLE NUMBER(S) |
|---------|-----------------|-------------------|
| surface | white aluminium | 011-9103006       |
| surface | 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             | ARTICLE NUMBER(S) |
|------------------|-------------------|
| electrical       | 011-9225100       |
| electrical   90° | 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       |