



Project / Type

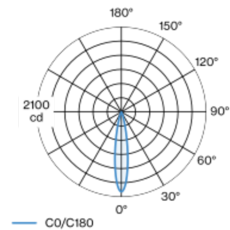
Notes

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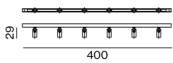
Miniature linear light inset made of aluminium; tubular design; surface lacquered in white aluminium; optionally for recessed or surface mounting (available as an accessory); plug and play electrical connector system for toolless mounting; different connectors for mechanical and electrical connection available - for flexible system design (available as an accessory); equipped with miniature spotlight heads; spotlight heads 360° rotatable and 90° tiltable; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 95; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 18° beam; light inset rotatable; degree of protection IP20; PC3; 24 V; accessories are listed separately; light source replaceable by an authorized professional;

Light distribution



| spot 18° |          |       |
|----------|----------|-------|
| h (m)    | E0° (lx) | ø (m) |
| 1        | 329      | 0.32  |
| 2        | 82       | 0.64  |
| 3        | 37       | 0.96  |
| 4        | 21       | 1.28  |
| 5        | 13       | 1.59  |

Product drawing



General

Showcase | Recessed

tilt max 90°

rotation 360°

white aluminium | RAL 9006 <sup>1</sup>

IP20

Interior

270 lm

optical inset 13 lm/W <sup>2</sup>

LED

4000 K

CRI ≥ 95

L80 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 100 | R<sub>f</sub>: 94 | R<sub>f(1-15)</sub>: 96

MR 0.87 | MDER 0.78

Optical

spot | beam angle 18°

Electrical

excl. driver

PC3 | 24 V

fixture 5.2 W

optical inset 3.5 W

24 V

Physical

length 400 mm | width 11 mm | height 29 mm

0.2 kg

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

Installation instructions





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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

MF

Maintenance Factor

LMF<sup>a</sup>

Luminaire Maintenance Factor

RSMF<sup>a</sup>

Room Surface Maintenance Factor

LLMF

Lamp Lumens Maintenance Factor

LSF

Lamp Survival Factor

<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

| 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 surface

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



MOUNTING CLIP 60 surface

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



MOUNTING CLIP 45 surface

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





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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       |

