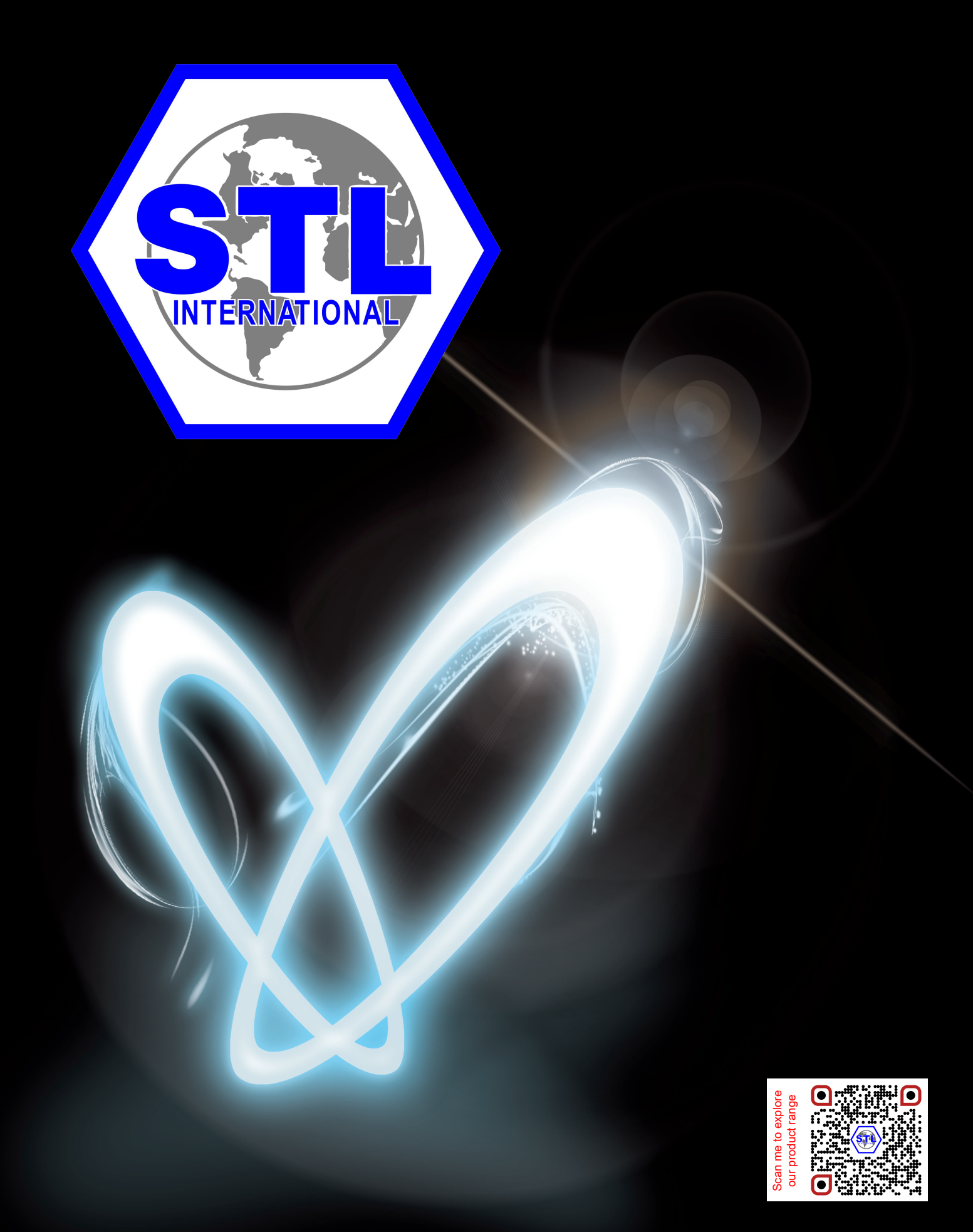
STL INTERNATIONAL



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# Industrial LED

May 2022




**POINTER-LED**

*Bulkhead-PC*




**EXTRA-LED**

*Linear_PC*




**HOUND/3-MAG-LED**

*Recessed_Metal/Glass*




**HOUND-MAG-LED**

*Surface_Metal/Glass*




**PITBUL-LED-NV**

*Linear_Metal/304SS/Glass*




**SALUKA-LED**

*Linear_Metal/304SS/Glass*




**STAFORD-LED**

*Recessed_Metal/304SS/Glass*




**BOXER-LED(-FC)**

*Bulkhead_Metal/304SS/PC*

*FC: Anti-Ligature*




**CLUMBER-LED**

*Bulkhead_Metal/304SS/Glass*




**AQUA-70-LED-FL**

**(IP67/68/69)**

*Tubular_PC*




**RAMBO-LED**

**(Impact Resistance 60J)**

*Linear_Metal/304SS/PC*




**GALGO-LED(-FF)**

**(Impact Resistance 120J)**

*Linear_Metal/304SS/PC*

*FF: Anti-Ligature*




**BH24-LED**

*Bulkhead_Alu/Glass*




**BISON-LED**

*Highbay_Metal/Glass*




**RUSSELL-LED**

*Highbay_Metal/Glass/PC*




**XOLO-LED**

*Streetlight_Alu/Glass*




**GREY-LED**

*Floodlight_Alu/Glass*

# POINTER-LED

IP 66



ta -20°C min. | EVG | EVG DIMM | 220-240V 50-60 Hz | 220-240V 0 Hz | EMERGENCY | LED | 5 years Warranty | nano TECHNOLOGY | 850°C PC | HACCP | IK 07

**Application:** Dustproof lighting fixture POINTER-LED with splash water resistance is designed for lighting of corridors, workshops, cellars and garages.

**Ballast:** EP – electronic 220-240 V/50-60 Hz AC, 220-240 V DC

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** Plastic material PC (polycarbonate), grey colour RAL 7035

**Diffuser:** PC (polycarbonate) opal

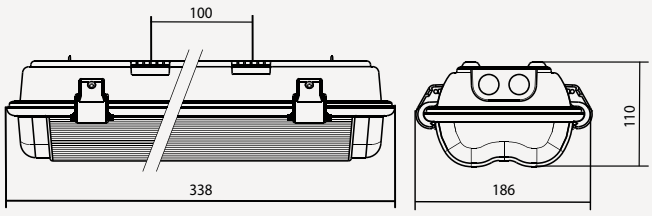
**Fastening:** Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) , suspension by means of wire or cable suspenders.

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 $mm^2$.

**Standard equipment:** Cable gland Pg13.5 for diameter of cable 7-12 mm and fastening brackets for direct fastening of lighting fixtures to a mounting surface.

**Calculated lifetime – LED modules:**

L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h





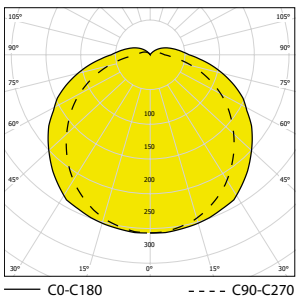


**MULTIPOINTER**
1h or 3h maintained emergency

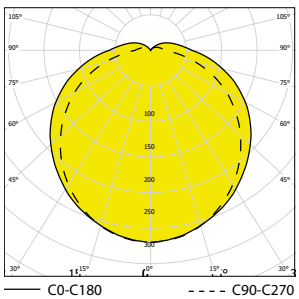
| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture | Mounting spacing (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 052981 | POINTER-I-LED-1R-1300-4K | 1160 | 9 | 129 | 50 | 338 x 186 x 110 | 100 | 0,8 |
| 052983 | POINTER-I-LED-1R-1500-4K | 1312 | 10 | 131 | 50 | 339 x 186 x 110 | 100 | 0,8 |
| 052985 | POINTER-I-LED-1R-1800-4K | 1604 | 13 | 123 | 50 | 340 x 186 x 110 | 100 | 0,8 |
| 052987 | POINTER-I-LED-2R-2250-4K | 1941 | 15 | 129 | 40 | 341 x 186 x 110 | 100 | 0,8 |
| 052988 | POINTER-I-LED-2R-2600-4K | 2243 | 18 | 125 | 40 | 342 x 186 x 110 | 100 | 0,9 |
| 052989 | POINTER-I-LED-2R-2950-4K | 2537 | 20 | 127 | 40 | 343 x 186 x 110 | 100 | 1,2 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

POINTER-LED-2R




POINTER-LED-1R

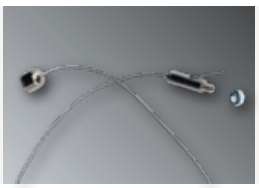


## Accessories on request



**Suspended mounting**

| | |
|---|---|
| 051106 | Suspension bracket with accessories |



**Suspended mounting**

| | |
|---|---|
| 051131 | Cable suspension VIPET (2pcs) |

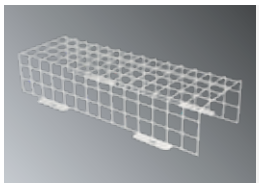


| | |
|---|---|
| 003571 | Stainless steel clip - POINTER, VIPET |



**Direct mounting**

| | |
|---|---|
| 001718 | Stainless steel fastening bracket - POINTER 2x |



| | |
|---|---|
| 001744 LAK | Protective cage POINTER 2x11W |



| | |
|---|---|
| 061066 | POINTER wall bracket |

## Lighting fixture detail



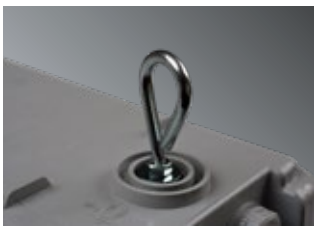










## On request

**EM-1/3** - non-maintained emergency lighting
**DIM** – dimmable electronic ballast (DALI,DSI, 1-10V)
**GESIS** – possibility to equip lighting fixtures with connectors
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**ADELS** - possibility to equip lighting fixtures with a connector terminal block

**MULTI-1/3** - maintained emergency lighting
**2.7K-6.5K** - colour temperature
**RN - outdoor application for uncovered areas** zones
**II** - insulation class
**NSPP** - stainless steel clip and fastening bracket
**NSP** - stainless steel clip
**NUP** - stainless steel fastening bracket

| Stadard order number | MULTI-1H | MULTI-3H | DALI | 1F | 3F | RN | NSP | MULTI-1H-NSP | MULTI-3H-NSP | DALI-NSP |
|---|---|---|---|---|---|---|---|---|---|---|
| 052981 | 051980 | 051983 | 052981 DALI | X | X | 051973 | 052981 NSP | 051980 NSP | 051983 NSP | 052981 DALI NSP |
| 052983 | 051981 | 051979 | 052983 DALI | X | X | 051974 | 052983 NSP | 051981 NSP | 051979 NSP | 052983 DALI NSP |
| 052985 | 051982 | 051978 | 052985 DALI | X | X | 051975 | 052985 NSP | 051982 NSP | 051978 NSP | 052985 DALI NSP |
| 052987 | X | X | 052987 DALI | X | X | 051976 | 052987 NSP | X | X | 052987 DALI NSP |
| 052988 | X | X | 052988 DALI | X | X | 051977 | 052988 NSP | X | X | 052988 DALI NSP |
| 052989 | X | X | 052989 DALI | X | X | 051985 | 052989 NSP | X | X | 052989 DALI NSP |

| EM |
|---|
| 051972 |
| 051984 |

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# EXTRA-LED

IP 66

**5 year warranty**



LED | CE | EMC | EAC | EVG | EVG DIMM | UV STABIL | 220-240V 50-60 Hz | 220-240V 0Hz | ta -25°C min. | IK 10 | CNBOP | HACCP | 5 years Warranty | nano TECHNOLOGY | 850°C PC | EMERGENCY

**Application:** Dustproof lighting fixture of new generation EXTRA-LED with splash water resistance is designed for workshops, warehouses,manufacturing areas, and garages.

**Ballast:** EP – electronic 220-240 V/50-60 Hz AC, 220-240 V DC

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** Plastic material **PC** (polycarbonate), **ABS** (acrylonitrile-butadiene-styrene), grey colour RAL 7035

**Diffuser: PC** (polycarbonate) opal, **SAN** (styrene-acrylonitrile) opal

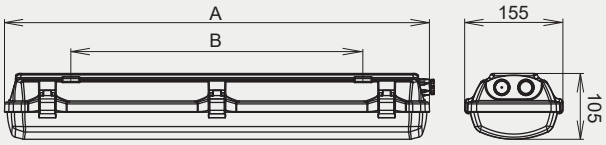
**Fastening:** Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) or set of wall brackets - angle 45°, pole mounting via set of pole brackets, suspension by means of wire or cable suspenders.

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 $mm^2$.

**Standard equipment:** Cable gland Pg13.5 for diameter of cable 7-12 mm and fastening brackets for direct fastening of lighting fixture to a mounting surface

**Calculated lifetime – LED modules:**

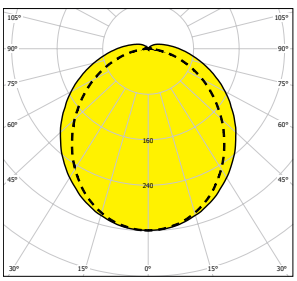
L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A (mm) | Mounting spacing B (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| **4000K** | | | | | | | | |
| 055186 | EXTRA-LED-1250-218-4K | 1088 | 8 | 136 | 40 | 670 | 460 | 1,4 |
| 055187 | EXTRA-LED-2500-218-4K | 2175 | 16 | 136 | 40 | 670 | 460 | 1,4 |
| 055188 | EXTRA-LED-5000-218-4K | 4305 | 33 | 130 | 40 | 670 | 460 | 1,5 |
| 055183 | EXTRA-LED-2500-236-4K | 2224 | 17 | 131 | 45* | 1280 | 880 | 2,3 |
| 055182 | EXTRA-LED-5000-236-4K | 4449 | 33 | 135 | 40* | 1280 | 880 | 2,5 |
| 055184 | EXTRA-LED-10000-236-4K | 8611 | 66 | 130 | 40 | 1280 | 880 | 2,7 |
| 055181 | EXTRA-LED-3750-258-4K | 3337 | 25 | 133 | 45* | 1580 | 1000 | 2,9 |
| 055180 | EXTRA-LED-7500-258-4K | 6674 | 50 | 133 | 45* | 1580 | 1000 | 2,8 |
| 055185 | EXTRA-LED-12550-258-4K | 10777 | 80 | 135 | 40 | 1580 | 1000 | 3,2 |
| 055228 NSP | EXTRA-LED-16700-258-4K | 13730 | 94 | 146 | 40 | 1580 | 1000 | 3,2 |
| 055240 NSP | EXTRA-LED-20000-258-4K | 16311 | 115 | 142 | 40 | 1580 | 1000 | 3,2 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%
* NSP - in version with stainless steel clips its declared for ambient temperature ta 50°C

EXTRA-LED




C0-C180 - - - - C90-C270

## Accessories on request



**Suspended mounting**

| | |
|---|---|
| 051131 | Cable suspension-EXTRA-2x (3m) |



| | |
|---|---|
| 064643 | Set of wall brackets - angle 45° EXTRA (2 pcs) |

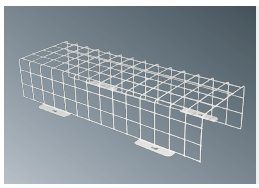


**Suspended mounting**

| | |
|---|---|
| 001696 | Wire suspension EXTRA |



| | |
|---|---|
| 051157 | Pole bracket EXTRA (for Ø 50 mm) |



| | |
|---|---|
| 001748 LAK | Protective cage EXTRA 18W |
| 001749 LAK | Protective cage EXTRA 36W |
| 001750 LAK | Protective cage EXTRA 58W |



| | |
|---|---|
| 008029 | Cable gland PG 13.5 with nut HEAVY DUTY RAL 7004 |
| 008501 | Sealing plug M20 |

## Lighting fixture detail







## On request

**DIM** – dimmable electronic ballast (DALI,DSI, 1-10V)
**GESIS** – possibility to equip lighting fixtures with connectors
**NANO** – lighting fixtures can be protected by a special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**1/3 F** - single-phase or three phase through wiring connection, maximum diameter of wires 2.5 $mm^2$
**2.7K-6.5K** - colour temperature
**II** - Insulation class II

**EM-1/3** - non-maintained emergency lighting
**MULTI-1/3** - maintained emergency lighting
**NSP** - stainless steel clip
**ADELS** - possibility to equip lighting fixtures with a connector terminal block
**NUP** - stainless steel fastening bracket
**NSPP** - stainless steel clip and fastening bracket
**RN** - outdoor application for uncovered areas

| Stadard order number PC | MULTI-1H | MULTI-3H | DALI | 1F | 3F | RN | NSP | MULTI-1H-NSP | MULTI-3H-NSP | DALI-NSP |
|---|---|---|---|---|---|---|---|---|---|---|
| 055186 | 055223 | 055224 | 055217 | 055186 1F | 055186 3F | 055206 | 055186 NSP | 055223 NSP | 055224 NSP | 055217 NSP |
| 055187 | 055190 | 055193 | 055218 | 055187 1F | 055187 3F | 055205 | 055187 NSP | 055190 NSP | 055193 NSP | 055218 NSP |
| 055188 | X | X | 055219 | 055188 1F | 055188 3F | 055204 | 055188 NSP | X | X | 055219 NSP |
| 055183 | 055220 | 055225 | 055201 | 055183 1F | 055183 3F | 055211 | 055183 NSP | 055220 NSP | 055225 NSP | 055201 NSP |
| 055182 | 055191 | 055194 | 055199 | 055182 1F | 055182 3F | 055209 | 055182 NSP | 055191 NSP | 055194 NSP | 055199 NSP |
| 055184 | 055221 | 055203 | 055216 | 055184 1F | 055184 3F | 055210 | 055184 NSP | 055221 NSP | 055203 NSP | 055216 NSP |
| 055181 | 055197 | 055196 | 055215 | 055181 1F | 055181 3F | 055212 | 055181 NSP | 055197 NSP | 055196 NSP | 055215 NSP |
| 055180 | 055192 | 055195 | 055189 | 055180 1F | 055180 3F | 055207 | 055180 NSP | 055192 NSP | 055195 NSP | 055189 NSP |
| 055185 | 055222* | 055202* | 055200 | 055185 1F | 055185 3F | 055208 | 055185 NSP | 055222 NSP* | 055202 NSP* | 055200 NSP |
| 055228 | X | X | X | X | X | X | 055228 NSP | X | X | 055244 NSP |
| 055240 | X | X | X | X | X | X | 055240 NSP | X | X | 055243 NSP |

* declared for reduced ambient temperature ta 30°C

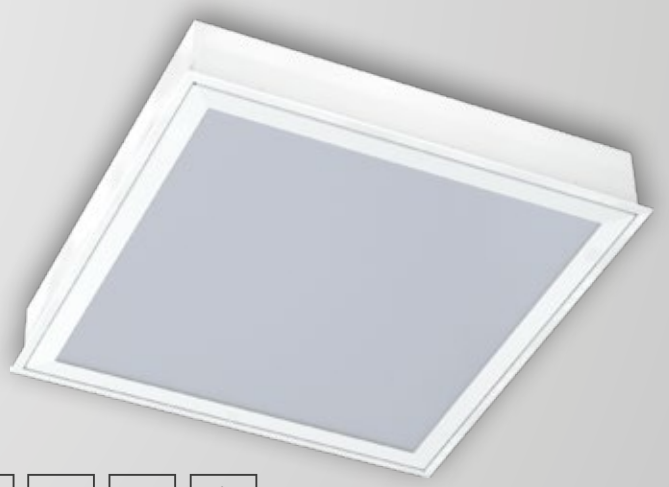
| Stadard order number SAN | MULTI-1H | MULTI-3H | DALI | 1F | 3F | EM |
|---|---|---|---|---|---|---|
| 055086 | 055096 | 054956 | 055149 | 055086 1F | 055086 3F | 055230 |
| 055087 | 055097 | 054957 | 055147 | 055087 1F | 055087 3F | 055231 |
| 055088 | 055098 | 054958 | 055148 | 055088 1F | 055088 3F | 055232 |
| 055083 | 055093 | 054953 | 055143 | 055083 1F | 055083 3F | 055233 |
| 055082 | 055092 | 054952 | 055142 | 055082 1F | 055082 3F | 055234 |
| 055084 | 055094 | 054954 | 055144 | 055084 1F | 055084 3F | 055235 |
| 055081 | 055091 | 054951 | 055141 | 055081 1F | 055081 3F | |
| 055080 | 055090 | 054950 | 055140 | 055080 1F | 055080 3F | |
| 055085 | 055095* | 054955* | 055145 | 055085 1F | 055085 3F | |

* declared for reduced ambient temperature ta 30°C

# HOUND/3-MAG-LED

IP 65

5 year warranty



**Application:** Recessed lighting fixture HOUND/3-MAG-LED is primarily designed for clean rooms. Thanks to frameless structure of the diffuser without screws and with clean design for easy maintenance, it is designed for clean rooms with required higher IP degree of protection, such as hospitals, laboratories.

**Ballast:** EP – electronic 220-240 V/ 50-60 Hz AC, 220-240 V DC 0Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** GLM – matt hardened safety glass

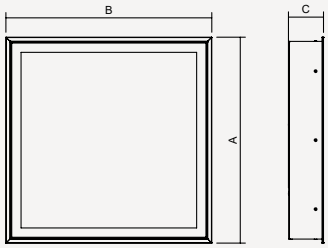
**Fastening:** Mounting to ceiling modules 600 and to plasterboard by means of special set of brackets for plasterboard (not a part of the lighting fixture). Minimum height of false ceiling void is 200 mm.

**Connection:** Screwless terminal block for easy mounting, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

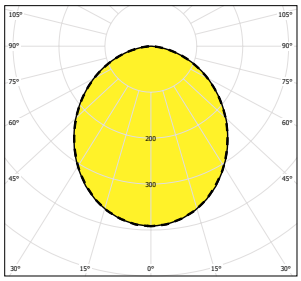
**Standard equipment:** Rubber plug M20 for diameter of cable 7-12 mm

**Calculated lifetime – LED modules:**

L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h)

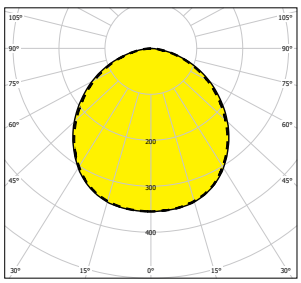



HOUND/3-MAG-LED-GLM



C0-C180 - - - - C90-C270

HOUND/3-MAG-LED-SQ-GLM



C0-C180 - - - - C90-C270

| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting hole (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| **4000K** | | | | | | | | |
| 059767 | HOUND/3-MAG-LED-SQ-OP-5100-4K | 4481 | 31 | 145 | 30 | 596x596x100 | 586x586 | 9 |
| 059768 | HOUND/3-MAG-LED-SQ-OP-6100-4K | 4929 | 35 | 141 | 30 | 596x596x100 | 586x586 | 9 |
| 059769 | HOUND/3-MAG-LED-SQ-OP-7100-4K | 7012 | 47 | 149 | 30 | 596x596x100 | 586x586 | 9 |
| **3000K** | | | | | | | | |
| 059797 | HOUND/3-MAG-LED-SQ-OP-5100-3K | 4320 | 31 | 139 | 30 | 596x596x100 | 586x586 | 9 |
| 059798 | HOUND/3-MAG-LED-SQ-OP-6100-3K | 5190 | 37 | 140 | 30 | 596x596x100 | 586x586 | 9 |
| 059799 | HOUND/3-MAG-LED-SQ-OP-7100-3K | 6496 | 47 | 138 | 30 | 596x596x100 | 586x586 | 9 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

## Accessories on request



051143 Set of brackets for plasterboard HOOVER3/HOUND3-LED



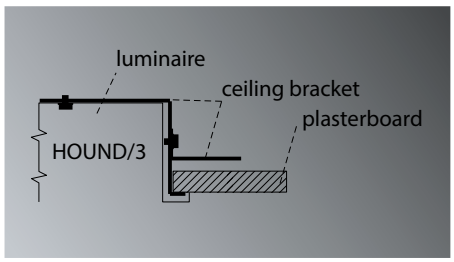
051199 Set of brackets for plasterboard HOOVER3/HOUND3-LED-SQ



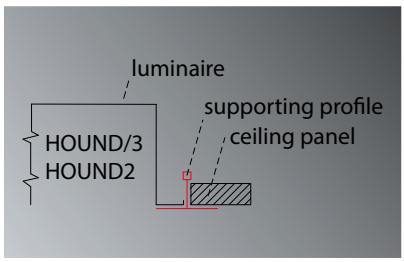
002021 Suction cup for glass opening HOUND4-MAG

## Lighting fixture detail

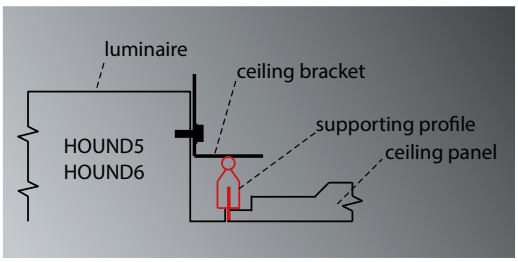
HOUND/3




HOUND/3, HOUND2




HOUND5, HOUND6




## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**MULTI** – maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**RAL** – other colour scale
**2.7K-6.5K** – various colour temperatures
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

**GESIS** – possibility to equip lighting fixtures with connectors
**HOUND2 -** version for false ceiling M625
**HOUND5 -** version for false ceiling M598
**HOUND6 -** version for metal ceiling M623
**ATYP FALSE-CEILING** - in case of other false-ceiling, please, contact the technical support
**CRI** - colour rendering index > 90

| Stadard order number | EM-1H | EM-3H | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| **4000K** | | | | | | | |
| 059767 | X | X | 059767 1H | 059767 3H | 059767 DALI | X | X |
| 059768 | X | X | 059768 1H | 059768 3H | 059768 DALI | X | X |
| 059769 | X | X | 059769 1H | 059769 3H | 059769 DALI | X | X |
| **3000K** | | | | | | | |
| 059797 | X | X | 059797 1H | 059797 3H | 059797 DALI | X | X |
| 059798 | X | X | 059798 1H | 059798 3H | 059798 DALI | X | X |
| 059799 | X | X | 059799 1H | 059799 3H | 059799 DALI | X | X |

**STL International Ltd**
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# HOUND4-MAG-LED

IP 65

5 year warranty



**Application:** Surface mounted lighting fixture HOUND4-MAG-LED is primarily designed for clean rooms. Thanks to frameless structure of the diffuser without screws and with clean design for easy maintenance, it is designed for clean rooms with required higher IP degree of protection, such as hospitals, laboratories.

**Ballast:** EP – electronic 220-240 V/50-60 Hz AC, 220-240 V DC 0Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

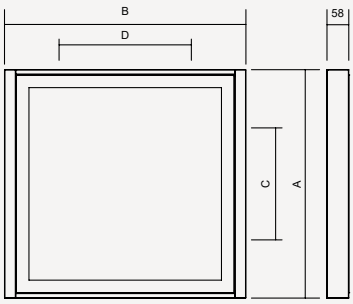
**Diffuser:** GLM – matt hardened safety glass

**Fastening:** Surface mounted on the ceiling

**Connection:** Screwless terminal block for easy mounting, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

**Standard equipment:** Rubber plug M20 for diameter of cable 7-12 mm

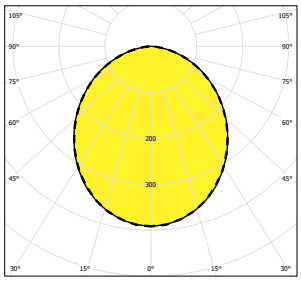
**Calculated lifetime – LED modules:** L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B (mm) | Mounting spacing C x D (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| **4000K** | | | | | | | | |
| 059861 | HOUND4-MAG-LED-SQ-3800-4K | 3787 | 24 | 158 | 30 | 595x627x58 | 400x400 | 8,8 |
| 059863 | HOUND4-MAG-LED-SQ-5300-4K | 4742 | 31 | 153 | 30 | 595x627x58 | 400x400 | 8,8 |
| 059865 | HOUND4-MAG-LED-SQ-7300-4K | 6172 | 39 | 158 | 30 | 595x627x58 | 400x400 | 8,8 |
| 059911 | HOUND4-MAG-LED-2700-4K | 2509 | 18 | 139 | 30 | 595x330x58 | 480x200 | 5,3 |
| 059913 | HOUND4-MAG-LED-3600-4K | 3275 | 25 | 131 | 30 | 595x330x58 | 480x200 | 5,3 |
| 059915 | HOUND4-MAG-LED-6400-4K | 5769 | 42 | 137 | 30 | 1189x330x58 | 1100x200 | 8,8 |
| 059917 | HOUND4-MAG-LED-8000-4K | 7315 | 56 | 131 | 30 | 1189x330x58 | 1100x200 | 8,8 |
| **3000K** | | | | | | | | |
| 059860 | HOUND4-MAG-LED-SQ-3800-3K | 3650 | 24 | 152 | 30 | 595x627x58 | 400x400 | 8,8 |
| 059862 | HOUND4-MAG-LED-SQ-5300-3K | 4572 | 31 | 147 | 30 | 595x627x58 | 400x400 | 8,8 |
| 059864 | HOUND4-MAG-LED-SQ-7300-3K | 5950 | 39 | 153 | 30 | 595x627x58 | 400x400 | 8,8 |
| 059910 | HOUND4-MAG-LED-2700-3K | 2396 | 18 | 133 | 30 | 595x330x58 | 480x200 | 5,3 |
| 059912 | HOUND4-MAG-LED-3600-3K | 3135 | 25 | 125 | 30 | 595x330x58 | 480x200 | 5,3 |
| 059914 | HOUND4-MAG-LED-6400-3K | 5513 | 42 | 131 | 30 | 1189x330x58 | 1100x200 | 8,8 |
| 059916 | HOUND4-MAG-LED-8000-3K | 6987 | 56 | 125 | 30 | 1189x330x58 | 1100x200 | 8,8 |

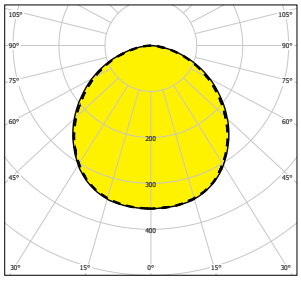
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

HOUND4-MAG-LED-GLM




C0-C180 - - - - C90-C270

HOUND4-MAG-LED-SQ-GLM




C0-C180 - - - - C90-C270

## Accessories on request



002021 Suction cup for glass opening HOUND4-MAG

## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**MULTI** – maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**RAL** – other colour scale

**2.7K-6.5K** – various colour temperatures
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**CRI** - colour rendering index > 90

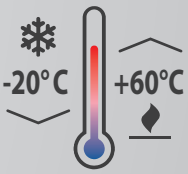
| Stadard order number | EM-1H | EM-3H | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| **4000K** | | | | | | | |
| 059861 | X | X | 059861 1H | 059861 3H | 059861 DALI | X | X |
| 059863 | X | X | 059863 1H | 059863 3H | 059863 DALI | X | X |
| 059865 | X | X | 059865 1H | 059865 3H | 059865 DALI | X | X |
| 059911 | X | X | X | X | 059911 DALI | X | X |
| 059913 | X | X | X | X | 059913 DALI | X | X |
| 059915 | X | X | 059915 1H | 059915 3H | 059915 DALI | | |
| 059917 | X | X | 059917 1H | 059917 3H | 059917 DALI | | |
| **3000K** | | | | | | | |
| 059860 | X | X | 059860 1H | 059860 3H | 059860 DALI | X | X |
| 059862 | X | X | 059862 1H | 059862 3H | 059862 DALI | X | X |
| 059864 | X | X | 059864 1H | 059864 3H | 059864 DALI | X | X |
| 059910 | X | X | X | X | 059910 DALI | X | X |
| 059912 | X | X | X | X | 059912 DALI | X | X |
| 059914 | X | X | 059914 1H | 059914 3H | 059914 DALI | | |
| 059916 | X | X | 059916 1H | 059916 3H | 059916 DALI | | |

# PITBUL-LED-PLUS

IP 66

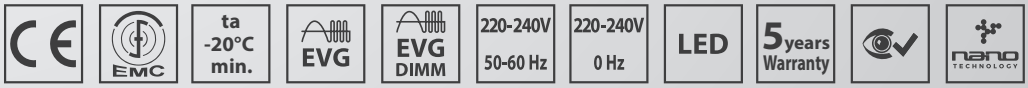
5 year warranty












**Application:** Robust metal lighting fixture PITBUL-LED with high degree of protection is designed for areas, such as heavy industry, areas with occurrence of aggressive substances (e.g. oils, greases) and other manufacturing areas.

**Ballast:** EP – electronic 220-240 V/50-60 Hz AC, 220-240 V DC

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** CG – clear hardened safety glass
OPG – matt hardened safety glass

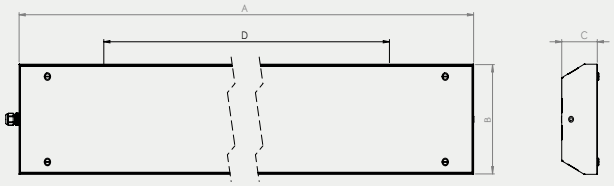
**Reflector:** White painted steel sheet RAL 9003

**Fastening:** Direct surface munting by means of M8 screws, suspension via suspending brackets.

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 $mm^2$

**Standard equipment:** Cable gland Pg13.5 for diameter of cable 7-12 mm and sealing plug.

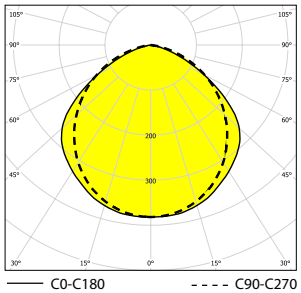
**Calculated lifetime – LED modules:** L80B10 ta35 – 70 000h, L70B10 ta35 – 100 000h



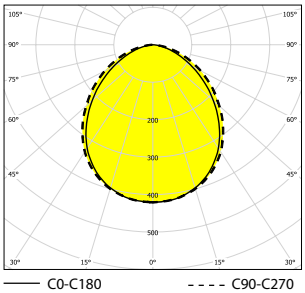

| Order number | Name | Lighting fixture luminous lux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting spacing D (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 051895 | PITBUL-LED-PLUS-CG-4400-4K, IP66 | 4034 | 26 | 155 | 60 | 1250x245x100 | 800 | 11,5 |
| 051896 | PITBUL-LED-PLUS-OPG-4400-4K, IP66 | 4090 | 26 | 157 | 60 | 1250x245x100 | 800 | 11,5 |
| 051897 | PITBUL-LED-PLUS-CG-10000-4K, IP66 | 9414 | 65 | 145 | 60 | 1250x245x100 | 800 | 11,5 |
| 051898 | PITBUL-LED-PLUS-OPG-10000-4K, IP66 | 9545 | 65 | 147 | 60 | 1250x245x100 | 800 | 11,5 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

PITBUL-LED-PLUS-CG




PITBUL-LED-PLUS-OP



## Accessories on request



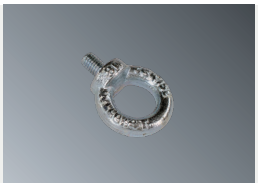
**Direct mounting**

| | |
|---|---|
| 054935 | Set of stainless steel ceiling brackets PITBUL (2 pcs) |



**Suspended mounting**

| | |
|---|---|
| 051146 | Pole bracket PITBUL (for Ø 50 mm) |



**Suspended mounting**

| | |
|---|---|
| 004642 | Suspension bracket DIN 580 M8 PITBUL - 1 pc |

## Lighting fixture detail



**PITBUL-LED-PLUS-OPG**



**PITBUL-LED-PLUS-CG**

# SALUKA-LED

IP 66

**5 year warranty**



**Application:** Metal dustproof lighting fixture SALUKA-LED with splash water resistance designed for workshops, garages, industrial and production areas.

**Ballast:** EP – electronic 220-240 V/50-60 Hz AC, 220-240 V DC

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** Clear hardened safety glass
OP - matt hardened safety glass

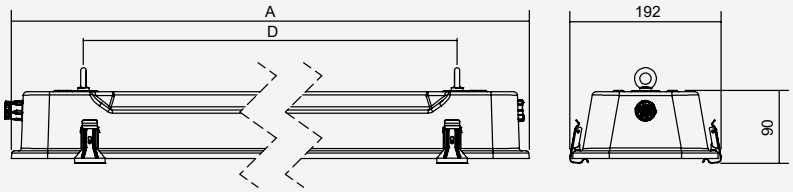
**Reflector:** White painted steel sheet RAL 9003

**Fastening:** Direct surface wall or ceiling mounting, ceiling mounting by means of ceiling brackets or adjustable brackets, wall mounting by means of wall arm brackets, pole mounting by means of pole brackets, suspension via set of suspension hooks (standard equipment)

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 $mm^2$.

**Standard equipment:** 1 pc M20 cable gland for diameter of cable 7-12 mm, 1 pc M20 sealing plug, 2 pcs suspending hook, 2 pcs rubber gasket

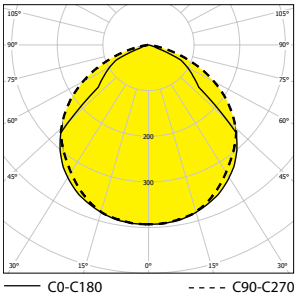
**Calculated lifetime – LED modules:**
L80B10 ta40 – 75 000h
L70B10 ta40 – 110 000h



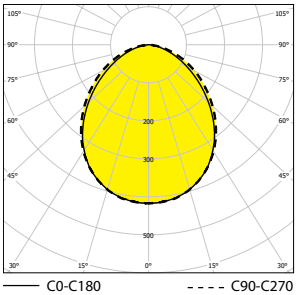

| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A (mm) | Mounting spacing D (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| **– transparent glass** | | | | | | | | |
| 053030 | SALUKA-LED-2500-218-4K | 2120 | 16 | 133 | 45 | 705 | 510 | 3,8 |
| 053031 | SALUKA-LED-5000-218-4K | 4166 | 33 | 126 | 45 | 705 | 510 | 3,9 |
| 053032 | SALUKA-LED-5000-236-4K | 4336 | 33 | 131 | 60 | 1305 | 1110 | 7,1 |
| 053033 | SALUKA-LED-10000-236-4K | 8333 | 66 | 126 | 45 | 1305 | 1110 | 7 |
| 053034 | SALUKA-LED-7500-258-4K | 6504 | 50 | 130 | 45 | 1605 | 1410 | 8,1 |
| 053035 | SALUKA-LED-12550-258-4K | 10429 | 80 | 130 | 40 | 1605 | 1410 | 8,3 |
| **- opal glass** | | | | | | | | |
| 053036 | SALUKA-LED-OP-2500-218-4K | 2079 | 16 | 130 | 45 | 705 | 510 | 3,8 |
| 053037 | SALUKA-LED-OP-5000-218-4K | 4362 | 33 | 132 | 45 | 705 | 510 | 3,9 |
| 053038 | SALUKA-LED-OP-5000-236-4K | 4254 | 33 | 129 | 60 | 1305 | 1110 | 7,1 |
| 053039 | SALUKA-LED-OP-10000-236-4K | 8724 | 66 | 132 | 45 | 1305 | 1110 | 7 |
| 053040 | SALUKA-LED-OP-7500-258-4K | 6381 | 50 | 128 | 45 | 1605 | 1410 | 8,1 |
| 053041 | SALUKA-LED-OP-12550-258-4K | 10918 | 80 | 136 | 40 | 1605 | 1410 | 8,3 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

SALUKA-LED-4K




SALUKA-LED-OP-4K



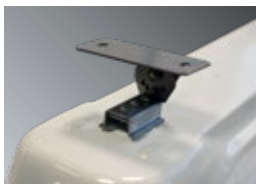
## Accessories on request



| | |
|---|---|
| 051139 | Set of ceiling brackets SALUKA (2 pcs) |



| | |
|---|---|
| 051145 | Pole bracket SALUKA stainless steel (for Ø 50 mm) |
| 064018 | Pole bracket SALUKA stainless steel (for Ø 40 mm) |



| | |
|---|---|
| 063754 | Set of adjustable brackets SALUKA (2 pcs) |



| | |
|---|---|
| 051147 | Stainless steel wall arm bracket SALUKA 60° (1 pc) |

## Lighting fixture detail







## On request

**DIM** – dimmable electronic ballast (DALI,DSI, 1-10V)
**GESIS** – possibility to equip lighting fixtures with connectors
**MULTI-1/3** - maintained emergency lighting
**EM-1/3** - non-maintained emergency lighting
**NANO** - lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**FOOD** – the lighting fixture is provided with PC diffuser that is suitable for food industry (IP64)

**2.7K-6.5K** - colour temperature
**1/3 F** - single-phase or three phase through wiring connection, maximum diameter of wires 2.5 $mm^2$
**NEREZ** –housing is made from stainless steel AISI 304 or AISI 316 (in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)
**ADELS** - possibility to equip lighting fixtures with connector terminal block

| Stadard order number | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|
| 053030 | 053072 | 053082 | 053005 | 053030 1F | 053030 3F |
| 053031 | 053073 | 053083 | 053006 | 053031 1F | 053031 3F |
| 053032 | 053070 | 053084 | 053007 | 053032 1F | 053032 3F |
| 053033 | 053074 | 053085 | 053008 | 053033 1F | 053033 3F |
| 053034 | 053071 | 053086 | 053009 | 053034 1F | 053034 3F |
| 053035 | 053075 | 053087 | 053010 | 053035 1F | 053035 3F |
| 053036 | 053076 | 053088 | 053011 | 053036 1F | 053036 3F |
| 053037 | 053077 | 053089 | 053012 | 053037 1F | 053037 3F |
| 053038 | 053078 | 053068 | 053013 | 053038 1F | 053038 3F |
| 053039 | 053079 | 053090 | 053014 | 053039 1F | 053039 3F |
| 053040 | 053080 | 053069 | 053015 | 053040 1F | 053040 3F |
| 053041 | 053081 | 053091 | 053016 | 053041 1F | 053041 3F |

| EM | | | | | |
|---|---|---|---|---|---|
| 053092 | X | X | X | 053092 1F | 053092 3F |
| 053093 | X | X | X | 053093 1F | 053093 3F |
| 053094 | X | X | X | 053094 1F | 053094 3F |
| 053095 | X | X | X | 053095 1F | 053095 3F |
| 053096 | X | X | X | 053096 1F | 053096 3F |
| 053097 | X | X | X | 053097 1F | 053097 3F |

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# STAFORD-LED

IP 65

**5 year warranty**



IK10

**Application:** Recessed antivandal lighting fixture STAFORD-LED with resistance against dust and with splash water resistance is designed for areas with high risk of damage, such as prison cells, psychiatric hospitals, underpasses, tunnels, underground stations and railway station platforms.

**Ballast:** EP – electronic 220-240 V / 50-60 Hz AC , 220-240V DC 0Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** Combination of painted sheet RAL 9003 and opal polycarbonate diffuser

**Reflector:** White painted steel sheet RAL 9003

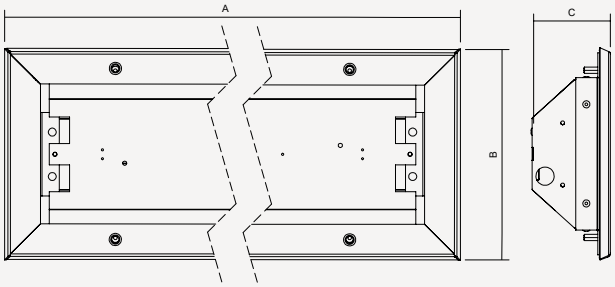
**Fastening:** Recessed ceiling mounting

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 $mm^2$

**Standard equipment:** 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

**Calculated lifetime – LED modules:**

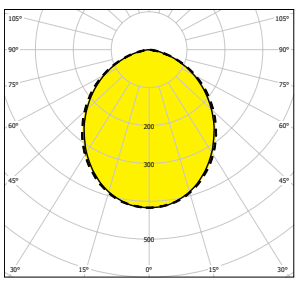
L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B xC (mm) | Mounting hole (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 057690 | STAFORD-LED-OP-3500-4K | 2562 | 21 | 122 | 30 | 653x255x95 | 605x200 | 6 |
| 057691 | STAFORD-LED-OP-4650-4K | 3368 | 29 | 116 | 30 | 653x255x95 | 605x200 | 6 |
| 057692 | STAFORD-LED-OP-5350-4K | 3890 | 34 | 114 | 30 | 653x255x95 | 605x200 | 6 |
| 057693 | STAFORD-LED-OP-7000-4K | 5052 | 43 | 117 | 30 | 953x255x95 | 905x200 | 10 |
| 057694 | STAFORD-LED-OP-8000-4K | 5838 | 51 | 114 | 30 | 953x255x95 | 905x200 | 10 |
| 057695 | STAFORD-LED-OP-9300-4K | 6736 | 58 | 116 | 30 | 1253x255x95 | 1205x200 | 14 |
| 057696 | STAFORD-LED-OP-10650-4K | 7781 | 68 | 114 | 30 | 1253x255x95 | 1205x200 | 14 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

STAFORD-LED




C0-C180 - - - - C90-C270

## Accessories on request

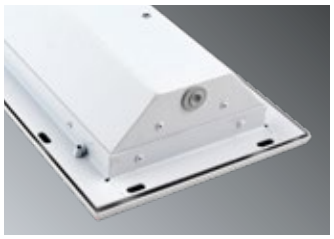


| | |
|---|---|
| 002022 | STAFORD installation box L=1 253 mm |
| 002025 | STAFORD installation box L= 953 mm |
| 002026 | STAFORD installation box L= 653 mm |

note: only in case of concrete base / concrete niche

## Lighting fixture detail





## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**2.7K-6.5K** – colour temperature
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**GLASS** – hardened safety glass
**MW SENSOR** - microwave sensor (in case of requirement for a sensor, contact the technical support)
**MULTI** – maintained emergency lighting (1h, 3h)
**RAL** – other colour scale
**1/3 F** – single-phase or three phase through wiring connection, maximum diameter of wires 2.5 $mm^2$
**NEREZ** - housing produced from stainless steel AISI 304 or AISI 316
(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)
**NIGHT LIGHT -** equipped with 4-8W LED source for night-time lighting 3K or 4K
**II** - insulation class II

| Stadard order number | EM-1H | EM-3H | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| 057690 | X | X | X | X | 057690 DALI | X | X |
| 057691 | X | X | X | X | 057691 DALI | X | X |
| 057692 | X | X | X | X | 057692 DALI | X | X |
| 057693 | X | X | 057693 1H | 057693 3H | 057693 DALI | X | X |
| 057694 | X | X | 057694 1H | 057694 3H | 057694 DALI | X | X |
| 057695 | X | X | 057695 1H | 057695 3H | 057695 DALI | X | X |
| 057696 | X | X | 057696 1H | 057696 3H | 057696 DALI | X | X |

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# BOXER-LED

IP 65

5 year warranty

ANTI-LIGATURE

IK10 + 40J

IK10 + 50J(FC)



CE | EMC | EAC | EVG | EVG DIMM | 220-240V 0 Hz | 220-240V 50-60 Hz | ta -20°C min. | LED | 5 years Warranty | nano TECHNOLOGY | UV STABIL | ENEC

**Application:** Antivandal lighting fixture BOXER-LED with dust and splash water resistance is designed for areas with high risk of damage, i.e prison cells, psychiatric hospitals, gyms and pedestrian subways.

**Ballast:** EP – electronic 220-240 V/50-60 Hz AC, 220-240 V

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** Polycarbonate in combination with painted steel frame RAL9003

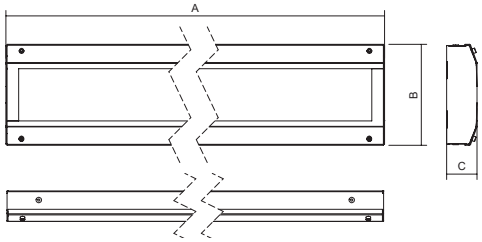
**Reflector:** Highly polished aluminium sheet

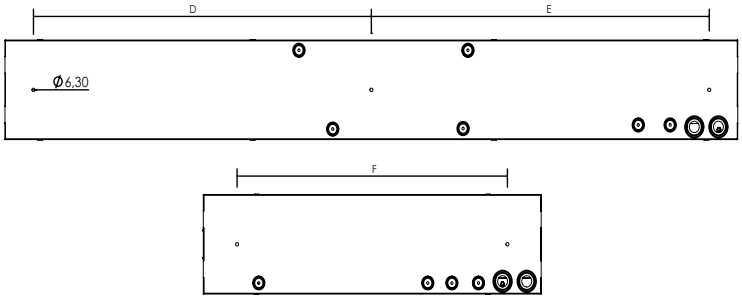
**Fastening:** Surface wall or ceiling mounting, recessed via frame for recessed installation or cornerr mounted via set for corner installation

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 $mm^2$. The lighting fixture is prepared for loop-in (possibility of connection of two cables)

**Standard equipment:** 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

**Calculated lifetime – LED modules:** L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h

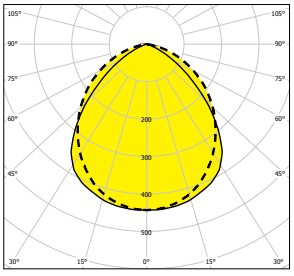



| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B xC (mm) | Mounting spacing DxE/F (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 053495 | BOXER-LED-1450-4K | 1123 | 8 | 140 | 55 | 421x184x56 | 320 | 2,8 |
| 053489 | BOXER-LED-1650-4K | 1413 | 11 | 128 | 55 | 421x184x56 | 320 | 2,8 |
| 053494 | BOXER-LED-2900-4K | 2393 | 18 | 133 | 60 | 701x184x56 | 540 | 4,7 |
| 053491 | BOXER-LED-3300-4K | 2826 | 22 | 128 | 60 | 701x184x56 | 540 | 4,7 |
| 053497 | BOXER-LED-5800-4K | 4786 | 36 | 133 | 55 | 1257x184x56 | 550x550 | 7 |
| 053487 | BOXER-LED-6600-4K | 5368 | 41 | 131 | 55 | 1257x184x56 | 550x550 | 7 |
| 053499 | BOXER-LED-7200-4K | 6350 | 48 | 132 | 45 | 1519x184x56 | 680x680 | 9 |
| 053485 | BOXER-LED-8200-4K | 6710 | 51 | 132 | 45 | 1519x184x56 | 680x680 | 9 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

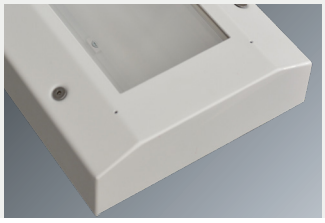
BOXER-LED



C0-C180 - - - - C90-C270

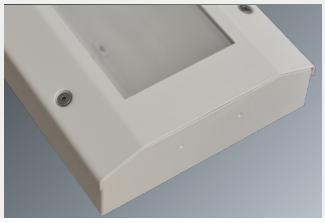
| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B xC (mm) | Mounting spacing DxE/F (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 053495 FC | BOXER-LED-FC-1450-4K | 1123 | 8 | 140 | 55 | 426x186x56 | 320 | 3 |
| 053489 FC | BOXER-LED-FC-1650-4K | 1413 | 11 | 128 | 55 | 426x186x56 | 320 | 3 |
| 053494 FC | BOXER-LED-FC-2900-4K | 2393 | 18 | 133 | 60 | 706x186x56 | 540 | 5 |
| 053491 FC | BOXER-LED-FC-3300-4K | 2826 | 22 | 128 | 60 | 706x186x56 | 540 | 5 |
| 053497 FC | BOXER-LED-FC-5800-4K | 4786 | 36 | 133 | 55 | 1262x186x56 | 550x550 | 7,3 |
| 053487 FC | BOXER-LED-FC-6600-4K | 5368 | 41 | 131 | 55 | 1262x186x56 | 550x550 | 7,3 |
| 053499 FC | BOXER-LED-FC-7200-4K | 6350 | 48 | 132 | 45 | 1524x186x56 | 680x680 | 9,5 |
| 053485 FC | BOXER-LED-FC-8200-4K | 6710 | 51 | 132 | 45 | 1524x186x56 | 680x680 | 9,5 |

**FC (full cover)**
VYRTYCH antivandal luminaires with FC marking comply with ANTI LIGATURE or SUICIDE RESISTANT requirements for areas with high risk of damage like prison or a secure healthcare facility.
There are generally no moving or protruding parts or rounded, bevelled corners also prevent points, where something can be attached. This means there are no ligature points or attachment areas that could enable a luminaire to be used for self-harming.



BOXER-LED-FC

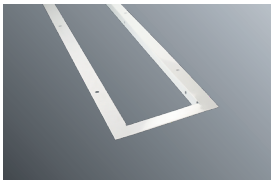
The luminaire of this type is equipped with a frame that completely covers the luminaire body. The impact resistance of this solution is 50J.



BOXER-LED

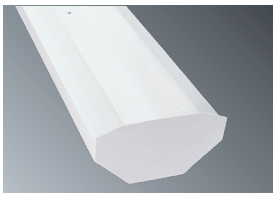
The luminaire of this type is equipped with a frame that covers the luminaire body by 10 mm. The impact resistance of this solution is 40J.

## Accessories on request



| | |
|---|---|
| 053412 | Recessed frame BOXER-LED 421 |
| 053413 | Recessed frame BOXER-LED 701 |
| 053414 | Recessed frame BOXER-LED 1257 |
| 053415 | Recessed frame BOXER-LED 1519 |

The requirement to equip the luminaire with a soffit frame must be specified when ordering, or contact technical support.
BOXER-LED-FC version cannot be equipped with a recessed frame.



| | |
|---|---|
| 053416 | Set for corner installation BOXER-LED 421 |
| 053417 | Set for corner installation BOXER-LED 701 |
| 053418 | Set for corner installation BOXER-LED 1257 |
| 053419 | Set for corner installation BOXER-LED 1519 |

BOXER-LED-FC version cannot be equipped with a corner mounting kit.

## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**2.7K-6.5K** – colour temperature
**NEREZ** - housing produced from stainless steel AISI 304 or AISI 316 (in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)
**MW SENSOR** - microwave sensor (in case of requirement for sensor, contact the technical support
**MULTI** – maintained emergency lighting (1h, 3h)
**RAL** – other colour scale
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**NIGHT LIGHT -** equipped with 4-8W LED source for night-time lighting
**SKLO**– hardened safety glass

| Standard order number | MULTI-1,5H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|
| 053495 | 053495 1H | 053495 3H | 053495 DALI | X | X |
| 053489 | 053489 1H | 053489 3H | 053489 DALI | X | X |
| 053494 | 053494 1H | 053494 3H | 053494 DALI | X | X |
| 053491 | 053491 1H | 053491 3H | 053491 DALI | X | X |
| 053497 | 053497 1H | 053497 3H | 053497 DALI | X | X |
| 053487 | 053487 1H | 053487 3H | 053487 DALI | X | X |
| 053499 | 053499 1H | 053499 3H | 053499 DALI | X | X |
| 053485 | 053485 1H | 053485 3H | 053485 DALI | X | X |

| Standard order number | MULTI-1,5H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|
| 053495 FC | 053495 FC 1H | 053495 FC 3H | 053495 FC DALI | X | X |
| 053489 FC | 053489 FC 1H | 053489 FC 3H | 053489 FC DALI | X | X |
| 053494 FC | 053494 FC 1H | 053494 FC 3H | 053494 FC DALI | X | X |
| 053491 FC | 053491 FC 1H | 053491 FC 3H | 053491 FC DALI | X | X |
| 053497 FC | 053497 FC 1H | 053497 FC 3H | 053497 FC DALI | X | X |
| 053487 FC | 053487 FC 1H | 053487 FC 3H | 053487 FC DALI | X | X |
| 053499 FC | 053499 FC 1H | 053499 FC 3H | 053499 FC DALI | X | X |
| 053485 FC | 053485 FC 1H | 053485 FC 3H | 053485 FC DALI | X | X |

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# CLUMBER–LED

IP 64

5 year warranty

IK10 (5kg@40cm)



**Application:** Antivandal lighting fixture CLUMBER-LED with dust and splash water resistance is designed for areas with high risk of damage, i.e prison cells, psychiatric hospitals, gyms and pedestrian subways.

**Ballast:** EP – electronic 220-240 V / 50-60 Hz AC, 220-240 V DC 0Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** Combination of painted sheet RAL 9003 and opal polycarbonate diffuser

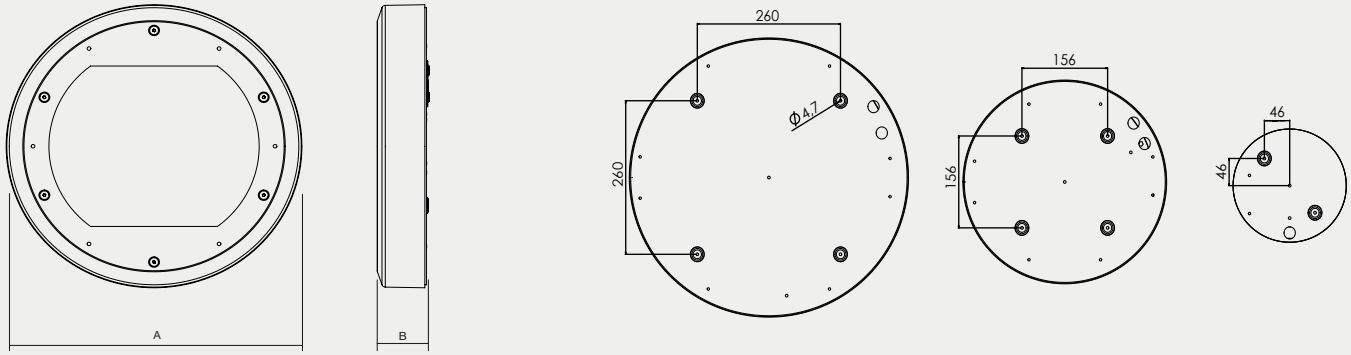
**Reflector:** Highly polished aluminium sheet

**Fastening:** Surface wall or ceiling mounting

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

**Standard equipment:** 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

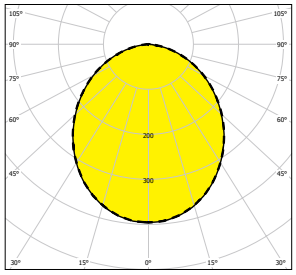
**Calculated lifetime – LED modules:** L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 053550 | CLUMBER1-LED-OP-4500-4K | 3276 | 29 | 113 | 30 | 505x63 | 7,5 |
| 053551 | CLUMBER1-LED-OP-3900-4K | 2842 | 25 | 114 | 30 | 505x63 | 7,5 |
| 053552 | CLUMBER1-LED-OP-5100-4K | 3693 | 34 | 109 | 30 | 505x63 | 7,5 |
| 053553 | CLUMBER1-LED-OP-6200-4K | 4472 | 43 | 104 | 30 | 505x63 | 7,5 |
| 053554 | CLUMBER2-LED-OP-1950-4K | 1404 | 13 | 108 | 30 | 370x63 | 4,2 |
| 053555 | CLUMBER2-LED-OP-1700-4K | 1218 | 11 | 111 | 30 | 370x63 | 4,2 |
| 053556 | CLUMBER2-LED-OP-2200-4K | 1582 | 14 | 113 | 30 | 370x63 | 4,2 |
| 053557 | CLUMBER2-LED-OP-2650-4K | 1916 | 18 | 106 | 30 | 370x63 | 4,2 |
| 053558 | CLUMBER3-LED-OP-1150-4K | 959 | 8 | 120 | 30 | 208x66 | 1,8 |
| 053559 | CLUMBER3-LED-OP-1500-4K | 1225 | 12 | 102 | 30 | 208x66 | 1,8 |

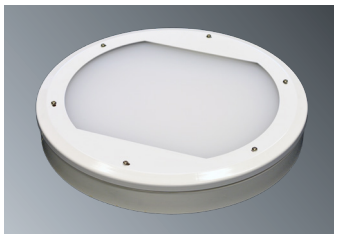
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

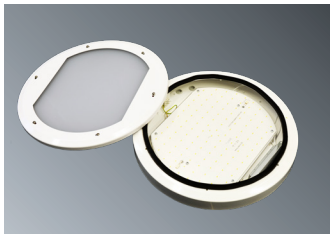
CLUMBER-LED



C0-C180 - - - - C90-C270

## Lighting fixture detail





## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

**MULTI** – maintained emergency lighting (1h, 3h)
**RAL** – other colour scale
**2.7K-6.5K** – colour temperature

| Stadard order number | MULTI-1,5H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|
| 053550 | 053550 1H | 053550 3H | 053550 DALI | X | X |
| 053551 | 053551 1H | 053551 3H | 053551 DALI | X | X |
| 053552 | 053552 1H | 053552 3H | 053552 DALI | X | X |
| 053553 | 053553 1H | 053553 3H | 053553 DALI | X | X |
| 053554 | 053554 1H | X | 053554 DALI | X | X |
| 053555 | 053555 1H | X | 053555 DALI | X | X |
| 053556 | 053556 1H | X | 053556 DALI | X | X |
| 053557 | 053557 1H | X | 053557 DALI | X | X |
| 053558 | X | X | 053558 DALI | X | X |
| 053559 | X | X | 053559 DALI | X | X |

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# AQUA-70-LED

IP 66, IP68, IP69

**5 year warranty**




LED | EAC | PMMA IK06 | PC IK10 | ta -20°C min. | 5 years Warranty | UV STABIL | EVG | EMC | CE | HACCP | 220-240V 50-60 Hz | 220-240V 0 Hz

**Application:** Dustproof lighting fixture AQUA-70-LED with splash water resistance (IP69) and immersion to 15 m resistance (IP68) is designed for areas at car washes, dams, water tanks, swimming pools, and chemical industry. Due to construction and thick-wall housing the lighting fixture is mechanically very resistant.

**Ballast:** EP – electronic 220 – 240 V / 50 Hz-60Hz AC, 220-240 V DC

**Light source:** LED, 4000K, CRI +80, MacAdam3

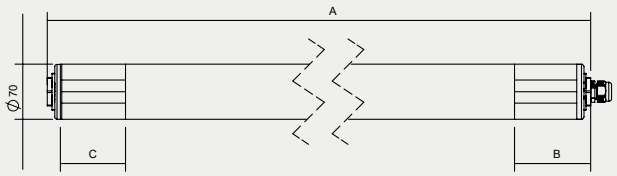
**Housing:** Tube of 70 mm external diameter and 4 mm wall thickness made of opal **PC** - IK10 (polycarbonate) or opal **PMMA** - IK06 (polymethyl methacrylate) terminated with sealing plugs.

**Fastening:** Surface wall or ceiling mounting by means of plastic or stainless steel mounting brackets (not standard equipment) or suspension by means of cable suspenders

**Connection:** Screwless connector terminal block, maximum diameter of wires 2.5mm$^2$. The lighting fixture can be delivered with a pre-installed cable.

**Standard equipment:** Cable gland M20 for diameter of cable 6-13mm.

**Calculated lifetime – LED modules:** L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h



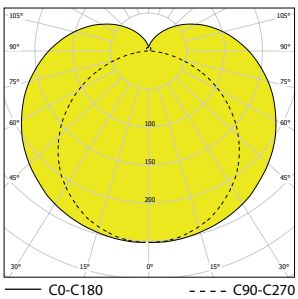

| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting hole A x B (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| **PC** | | | | | | | | |
| 084130 | AQUA-70-LED-FL-2500-4K | 1903 | 17 | 112 | 50 | 780x70x70 | - | 1,6 |
| 084131 | AQUA-70-LED-FL-5000-4K | 3806 | 35 | 109 | 40 | 1270x70x70 | - | 2,4 |
| 084132 | AQUA-70-LED-FL-7800-4K | 5709 | 52 | 110 | 40 | 1740x70x70 | - | 3,1 |
| **PMMA** | | | | | | | | |
| 084150 | AQUA-70-LED-FL-PMMA-2500-4K | 1954 | 17 | 115 | 50 | 780x70x70 | - | 1,6 |
| 084151 | AQUA-70-LED-FL-PMMA-5000-4K | 3909 | 35 | 112 | 40 | 1270x70x70 | - | 2,4 |
| 084152 | AQUA-70-LED-FL-PMMA-7800-4K | 5864 | 52 | 113 | 40 | 1740x70x70 | - | 3,1 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

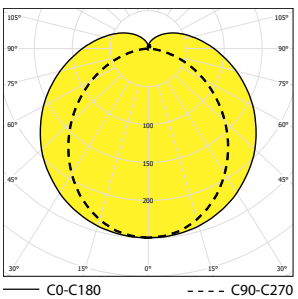




AQUA-70-LED-PMMA




AQUA-70-LED-PC



## Accessories on request



**Direct mounting**

053627 Stainless steel mounting bracket AQUA-70 (1 pc)



**Direct mounting**

053629 Mounting PC bracket AQUA-70, dark grey (1pc)

**Suspended mounting**

051127 Cable suspension AQUA-70 (2 pcs)

053629 Mounting PC bracket AQUA-70, dark grey (1pc)



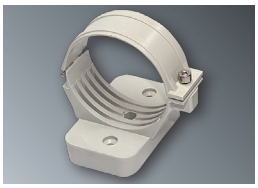
**Direct mounting**

053628 Stainless steel mounting bracket AQUA-70 (1 pc)

**Suspended mounting**

051134 Cable suspension AQUA-70 (2 pcs) stainless steel

053628 Stainless steel mounting bracket AQUA-70 (1 pc)



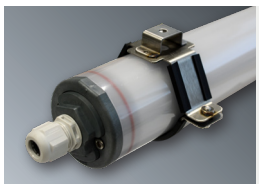
**Direct mounting**

053630 Mounting PC bracket AQUA-70, bright grey (1pc)

**Suspended mounting**

051127 Cable suspension AQUA-70 (2 pcs)

053630 Mounting PC bracket AQUA-70, bright grey (1pc)



**Direct mounting**

064898 Stainless steel mounting bracket AQUA-70 (1 pc) for direct surface mounting

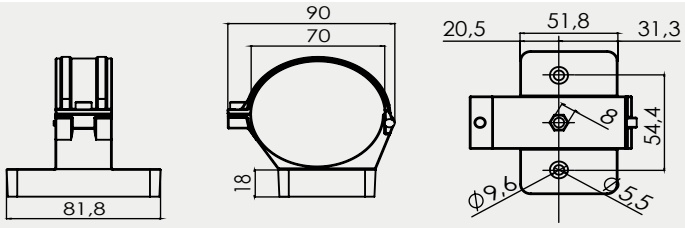
## Lighting fixture detail



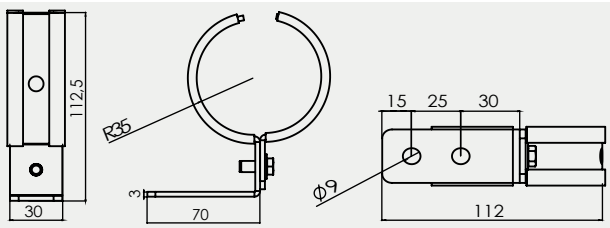









053630




053627

## On request

**DIM** – dimmable electronic ballast (DALI,DSI, 1-10V)
**GESIS** – possibility to equip lighting fixtures with connectors
**MULTI-1/3** - maintained emergency lighting
**1/3 F** - single-phase or three phase through wiring connection, max. diameter of wires 2.5 mm²

**2.7K-6.5K** - colour temperature
**II** - insulation class II
**EM-1/3** - non-maintained emergency lighting
**CRI** - colour rendering index > 90

| Stadard order number | EM-1H | EM-3H | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| **PC** | | | | | | | |
| 084130 | 084136 | 084139 | 084142 | 084145 | 084133 | 084130 1F | 084130 3F |
| 084131 | 084137 | 084140 | 084143 | 084146 | 084134 | 084131 1F | 084131 3F |
| 084132 | 084138 | 084141 | 084144 | 084147 | 084135 | 084132 1F | 084132 3F |
| **PMMA** | | | | | | | |
| 084150 | 084176 | 084179 | 084182 | 084185 | 084153 | 084150 1F | 084150 3F |
| 084151 | 084177 | 084180 | 084183 | 084186 | 084154 | 084151 1F | 084151 3F |
| 084152 | 084178 | 084181 | 084184 | 084187 | 084155 | 084152 1F | 084152 3F |

In case of MULTI version the length of the lighting fixture is extended

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# RAMBO-LED-FL

IP 66 / IP 67, IP 42

5 year warranty



IK10+60J

CE | EMC | EAC | ta -20°C min | EVG | EVG DIMM | 220-240V 0 Hz | 220-240V 50-60 Hz | LED | 5 years Warranty | 850°C PC

**Application:** Dustproof antivandal lighting fixture RAMBO-LED with splash water resistance is designed for areas with high risk of damage, such as prison cells, psychiatric hospitals, underpasses, tunnels, underground stations and railway station platforms.

**Ballast:** EP – electronic 220-240 V / 50-60 Hz AC, 220-240V DC 0Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet (RAL 9003) equipped with plastic end caps (polycarbonate)

**Diffuser:** Tube of 70 mm external diameter and 4 mm wall thickness made of opal polycarbonate, equipped with sealing plugs in case of IP66/IP67 version

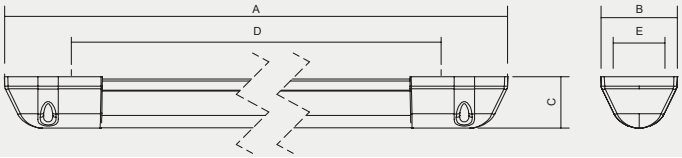
**Fastening: Surface wall or ceiling mounting**

**Connection:** Screw connector terminal block, maximum diameter of wires 2.5 mm2

**Standard equipment:** 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 002020 RAMBO special key for safety screws)

**Calculated lifetime – LED modules:**

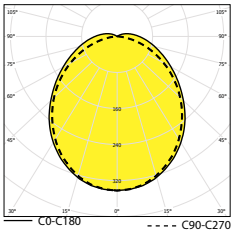
L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Lighting fixture luminous flux NL (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B xC (mm) | Mounting spacing DxE (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| **IP66/IP67** | | | | | | | | | |
| 084084 | RAMBO-LED-FL-2500-4K, IP66/IP67, I=955 mm | 1929 | - | 17 | 113 | 30 | 955x112x76 | 779x60 (Ø8) | 5,3 |
| 084086 | RAMBO-LED-FL-5000-4K, IP66/IP67, I=1445 mm | 3858 | - | 33 | 117 | 30 | 1445x112x76 | 1276x60 (Ø8) | 7,5 |
| 084087 | RAMBO-LED-FL-7500-4K, IP66/IP67, I=1910 mm | 5787 | - | 50 | 116 | 30 | 1910x112x76 | 1742x60 (Ø8) | 8,8 |
| **IP66/IP67 - NL (version with night light)** | | | | | | | | | |
| 084262 | RAMBO-LED-FL-NL-2500-4K, IP66/IP67, I=1020 mm | 1929 | 455 | 17 | 113 | 50 | 1020x112x76 | 844x60 (Ø8) | 6,3 |
| 084263 | RAMBO-LED-FL-NL-5000-4K, IP66/IP67, I=1510 mm | 3858 | 455 | 33 | 117 | 40 | 1510x112x76 | 1342x60 (Ø8) | 8,3 |
| **IP42** | | | | | | | | | |
| 084220 | RAMBO-LED-FL-2500-4K, IP42, I=955 mm | 1929 | - | 17 | 113 | 30 | 955x112x76 | 779x60 (Ø8) | 5,3 |
| 084221 | RAMBO-LED-FL-5000-4K, IP42, I=1445 mm | 3858 | - | 33 | 117 | 30 | 1445x112x76 | 1276x60 (Ø8) | 7,5 |
| 084222 | RAMBO-LED-FL-7500-4K, IP42, I=1910 mm | 5787 | - | 50 | 116 | 30 | 1910x112x76 | 1742x60 (Ø8) | 8,8 |
| **IP42 - NL (version with night light)** | | | | | | | | | |
| 084260 | RAMBO-LED-FL-NL-2500-4K, IP42, I=1020 mm | 1929 | 455 | 17 | 113 | 50 | 1020x112x76 | 844x60 (Ø8) | 6,3 |
| 084261 | RAMBO-LED-FL-NL-5000-4K, IP42, I=1510 mm | 3858 | 455 | 33 | 117 | 40 | 1510x112x76 | 1342x60 (Ø8) | 8,3 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

RAMBO-LED-FL



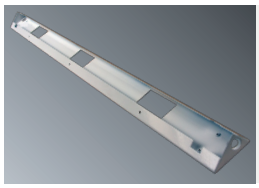
## Accessories on request



| | |
|---|---|
| 004569 | Screw with special head |

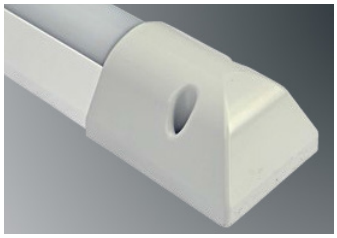


| | |
|---|---|
| 002020 | Spanner for mounting and dismantling special screw |



| | |
|---|---|
| order number on request | Corner bracket 30° |

## Lighting fixture detail



## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**2.7K-6.5K** – colour temperature
**MULTI** – maintained emergency lighting (1h, 3h)
**RAL** – other colour scale
**1/3 F** – single-phase or three phase through wiring connection, maximum diameter of wires 2.5 $mm^2$
**NEREZ** - housing produced from stainless steel AISI 304 or AISI 316 (in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)
**MW SENSOR** - microwave sensor (in case of requirement for sensor contact the technical support
**NL** - night light

| Standard order number | EM-1,5H | EM-3H | MULTI-1,5H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| **IP66/IP67** | | | | | | | |
| 084085 | X | X | 084060 | 084063 | 084066 | 084085 1F | 084085 3F |
| 084262 | X | X | X | X | X | 084262 1F | 084262 3F |
| 084086 | X | X | 084061 | 084064 | 084067 | 084086 1F | 084086 3F |
| 084263 | X | X | X | X | X | 084263 1F | 084263 3F |
| 084087 | X | X | 084062 | 084065 | 084068 | 084087 1F | 084087 3F |
| **IP42** | | | | | | | |
| 084220 | X | X | 084223 | 084226 | 084229 | 084220 1F | 084220 3F |
| 084260 | X | X | X | X | X | 084260 1F | 084260 3F |
| 084221 | X | X | 084224 | 084227 | 084230 | 084221 1F | 084221 3F |
| 084261 | X | X | X | X | X | 084261 1F | 084261 3F |
| 084222 | X | X | 084225 | 084228 | 084231 | 084222 1F | 084222 3F |

# GALGO-LED

IP 65

5 year warranty

ANTI-LIGATURE

IK10++ 120J



CE | EMC | EAC | ta -20°C min | EVG | EVG DIMM | 220-240V 0 Hz | 220-240V 50-60 Hz | LED | 5 years Warranty | UV STABIL | nano TECHNOLOGY | EMERGENCY

**Application:** Antivandal lighting fixture GALGO-LED with dust and water jets resistance is designed for areas with high risk of damage, i.e prison cells, psychiatric hospitals, gyms and pedestrian subways.

**Ballast:** EP – electronic 220-240V /50-60Hz AC, 220-240V DC 0Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** Extremely resistant material **PC** (polycarbonate)

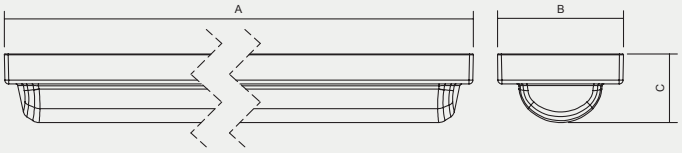
**Fastening:** Surface wall or ceiling mounting

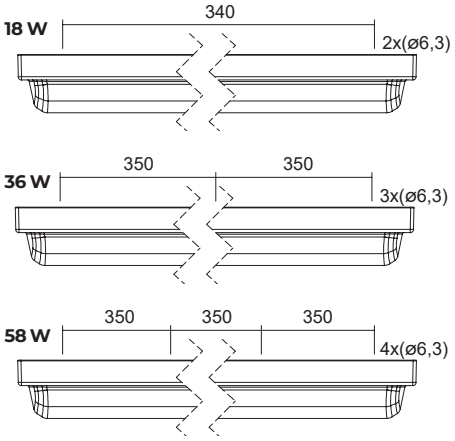
**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

**Standard equipment:** 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

**Calculated lifetime – LED modules:**

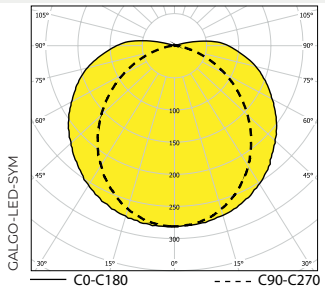
L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h

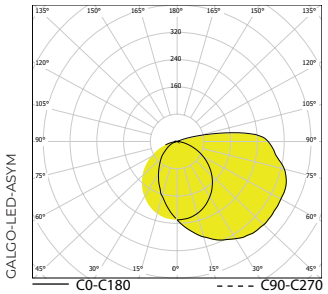



| Order number | Name | Lighting fixture luminous flux(lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| **SYM** | | | | | | | |
| 051770 | GALGO-LED-1250-118-4K | 1110 | 8 | 139 | 40 | 690x198x108 | 6,3 |
| 051771 | GALGO-LED-2500-218-4K | 2220 | 16 | 139 | 40 | 690x198x108 | 5,5 |
| 051772 | GALGO-LED-5000-218-4K | 4650 | 33 | 141 | 40 | 690x198x108 | 6,3 |
| 051773 | GALGO-LED-2500-136-4K | 2271 | 17 | 134 | 60 | 1300x198x108 | 11 |
| 051774 | GALGO-LED-5000-236-4K | 4542 | 33 | 138 | 60 | 1300x198x108 | 11 |
| 051775 | GALGO-LED-10000-236-4K | 9300 | 66 | 141 | 40 | 1300x198x108 | 11 |
| 051776 | GALGO-LED-3750-158-4K | 3406 | 25 | 136 | 50 | 1600x198x108 | 13 |
| 051777 | GALGO-LED-7500-258-4K | 6813 | 50 | 136 | 50 | 1600x198x108 | 13 |
| 051778 | GALGO-LED-12550-258-4K | 11639 | 80 | 145 | 40 | 1600x198x108 | 13 |
| **ASYM** | | | | | | | |
| 051795 | GALGO-LED-ASYM-3800-218-4K | 3273 | 25 | 131 | 30 | 696x198x108 | 5,5 |
| 051796 | GALGO-LED-ASYM-7600-236-4K | 6546 | 49 | 134 | 30 | 1306x198x108 | 11 |
| 051797 | GALGO-LED-ASYM-10500-258-4K | 7637 | 56 | 137 | 30 | 1606x198x108 | 13 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



| Order number | Name | Lighting fixture luminous flux(lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| **SYM** | | | | | | | |
| 051770 FF | GALGO-LED-FF-1250-118-4K | 1110 | 8 | 139 | 40 | 696x198x108 | 6,5 |
| 051771 FF | GALGO-LED-FF-2500-218-4K | 2220 | 16 | 139 | 40 | 696x198x108 | 5,2 |
| 051772 FF | GALGO-LED-FF-5000-218-4K | 4650 | 33 | 141 | 40 | 696x198x108 | 6,5 |
| 051773 FF | GALGO-LED-FF-2500-136-4K | 2271 | 17 | 134 | 60 | 1306x198x108 | 11,2 |
| 051774 FF | GALGO-LED-FF-5000-236-4K | 4542 | 33 | 138 | 60 | 1306x198x108 | 11,2 |
| 051775 FF | GALGO-LED-FF-10000-236-4K | 9300 | 66 | 141 | 40 | 1306x198x108 | 11,2 |
| 051776 FF | GALGO-LED-FF-3750-158-4K | 3406 | 25 | 136 | 50 | 1606x198x108 | 13,2 |
| 051777 FF | GALGO-LED-FF-7500-258-4K | 6813 | 50 | 136 | 50 | 1606x198x108 | 13,2 |
| 051778 FF | GALGO-LED-FF-12550-258-4K | 11639 | 80 | 145 | 40 | 1606x198x108 | 13,2 |
| **ASYM** | | | | | | | |
| 051795 FF | GALGO-LED-FF-ASYM-3800-218-4K | 3273 | 25 | 131 | 30 | 690x198x108 | 6,5 |
| 051796 FF | GALGO-LED-FF-ASYM-7600-236-4K | 6546 | 49 | 134 | 30 | 1300x198x108 | 11,2 |
| 051797 FF | GALGO-LED-FF-ASYM-10500-258-4K | 7637 | 56 | 137 | 30 | 1600x198x108 | 13,2 |

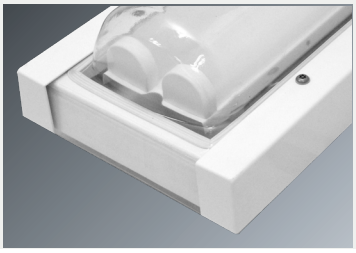
**FF (full frame)**

VYRTYCH antivandal luminaires with FF marking comply with ANTI LIGATURE or SUICIDE RESISTANT requirements for areas with high risk of damage like prison or a secure healthcare facility. There are generally no moving or protruding parts or rounded, bevelled corners also prevent points, where something can be attached. This means there are no ligature points or attachment areas that could enable a luminaire to be used for self-harming.



GALGO-LED-FF

This type of luminaire is equipped with a diffuser with a complete sheet metal frame.



GALGO-LED

This type of luminaire is equipped with a diffuser, which is complemented on the long sides by a reinforcing sheet metal rim.

## On request

**Em** – non-maintained emergency lighting (1h, 3h)
**DIM** – dimmable electronic ballast (DSI, DALI)
**2.7K-6.5K** – colour temperature
**MULTI** – maintained emergency lighting (1h, 3h)
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)
**RAL** – other colour scale
**MW SENSOR** - microwave sensor (if a sensor is required, contact technical support)
**NEREZ** - housing produced from stainless steel AISI 304 or AISI 316 (in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)
**NIGHT LIGHT** - equipped with 4-8W LED source for night-time lighting

| Stadard order number | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|
| 051770 | 051790 | X | 051770 DALI | X | X |
| 051771 | 051780 | X | 051771 DALI | X | X |
| 051772 | X | X | 051772 DALI | X | X |
| 051773 | 051791 | 051793 | 051773 DALI | X | X |
| 051774 | 051781 | 051784 | 051774 DALI | X | X |
| 051775 | X | X | 051775 DALI | X | X |
| 051776 | 051792 | 051794 | 051776 DALI | X | X |
| 051777 | 051782 | 051785 | 051777 DALI | X | X |
| 051778 | X | X | 051778 DALI | X | X |

| Stadard order number | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|
| 051770 FF | X | X | 051770 FF DALI | X | X |
| 051771 FF | 051780 FF | 051783 FF | 051771 FF DALI | X | X |
| 051772 FF | X | X | 051772 FF DALI | X | X |
| 051773 FF | X | X | 051773 FF DALI | X | X |
| 051774 FF | 051781 FF | 051784 FF | 051774 FF DALI | X | X |
| 051775 FF | X | X | 051775 FF DALI | X | X |
| 051776 FF | X | X | 051776 FF DALI | X | X |
| 051777 FF | 051782 FF | 051785 FF | 051777 FF DALI | X | X |
| 051778 FF | X | X | 051778 FF DALI | X | X |

Bulkhead



# BH24-LED

## 5 year warranty

**IP 65**

**Wall or ceiling mounted bulkhead for use in demanding applications.**

**LED Applications:** Tunnels, Marine, Coastal areas
(1000hr salt spray test approved)

**Body:** Aluminium alloy, RAL 9005, black

**Diffuser:** Hardened clear safety glass

**Light source:** LED, 4000K, CRI >80, 2400 lumen

**Ambient Temperature:** -25°C to +50°C

**LED modules (calculated):** L80B10 @ta50°C - 50,000hrs

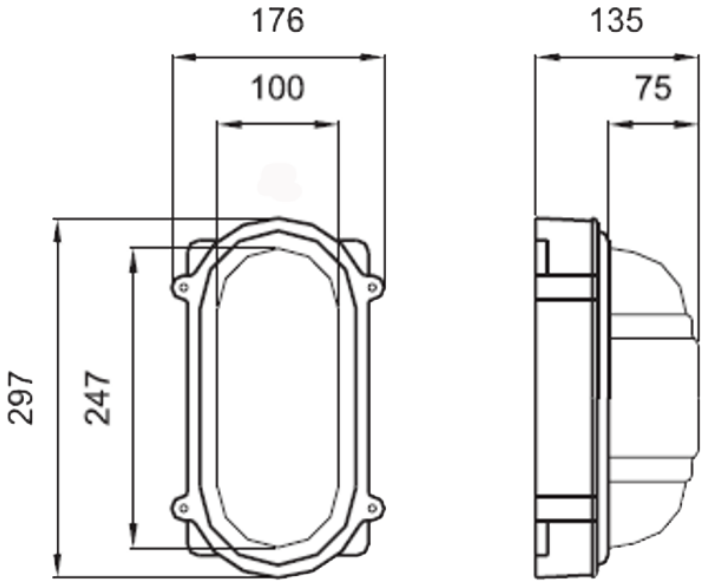
**Supply:** 220-240V 50/60Hz, 24W

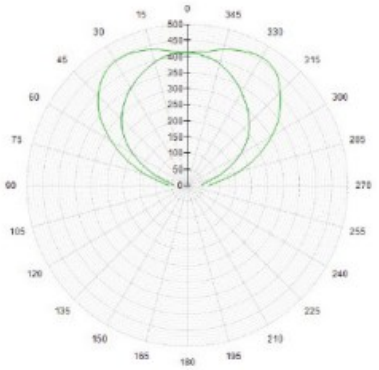
**Entry:** 2 x M20 (one top and one bottom)

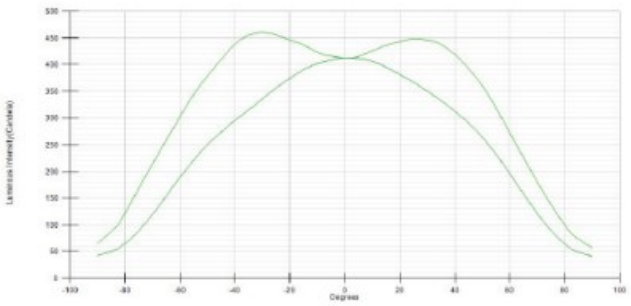
**Termination:** 2.5mm$^2$ max

**Mounting:** Flange mounted

**Optional:**
- Integrated 3hr emergency
- Self-testing emergency
- Dusk to Dawn
- Microwave motion sensor
- Daylight monitoring





Photometric data

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# BISON-LED

IP 66

5 year warranty



**Application:** Dustproof high-bay lighting fixture BISON-LED is primarily designed for areas with requirement of higher degree of protection IP, such as warehouse and production halls. Thanks to its luminous characteristics and excellent efficiency, the lighting fixture is suitable for mounting at high ceiling rooms.

**Ballast:** EP – electronic 220-240 V/ 50-60 Hz AC, 220-240 V DC

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** Painted steel sheet RAL 9003

**Diffuser: CG -** Clear hardened safety thermally toughtened glass, **OP** – Opal hardened safety thermally toughtened glass, **PC** - polycarbonate, **MP** - microprismatic diffuser

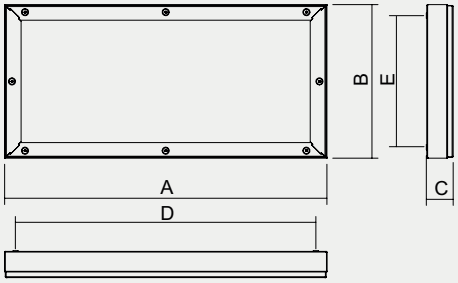
**Fastening:** Mounting via suspension brackets

**Connection:** The lighting fixture is provided as a standard with 2 m cable (3x1.5 mm²) that is terminated by sleeves

**Standard equipment:** 4 pcs suspension brackets M5

**Calculated lifetime – LED modules:**

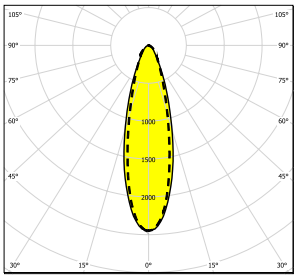
L80B10 ta40 – 70 000h
L70B10 ta40 – 100 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting spacing D x E (mm) |
|---|---|---|---|---|---|---|---|
| **CG** | | | | | | | |
| 051924 | BISON-LED-13500-CG-30-G2-4K | 12189 | 78 | 156 | 55 | 660x330x55 | 617x287 |
| 051925 | BISON-LED-13500-CG-60-G2-4K | 11975 | 78 | 154 | 55 | 660x330x55 | 617x287 |
| 051930 | BISON-LED-26500-CG-30-G2-4K | 24378 | 155 | 157 | 55 | 1220x330x55 | 1177x287 |
| 051931 | BISON-LED-26500-CG-60-G2-4K | 23951 | 155 | 155 | 55 | 1220x330x55 | 1177x287 |
| **OPG** | | | | | | | |
| 051920 | BISON-LED-13500-OPG-G2-4K | 11202 | 78 | 144 | 55 | 660x330x55 | 617x287 |
| 051932 | BISON-LED-19000-OPG-G2-4K | 15741 | 110 | 143 | 55 | 660x580x55 | 621x541 |
| 051926 | BISON-LED-26500-OPG-G2-4K | 22404 | 155 | 145 | 55 | 1220x330x55 | 1177x287 |
| 051934 | BISON-LED-37500-OPG-G2-4K | 31483 | 220 | 143 | 60 | 1220x580x55 | 1177x537 |
| **PC** | | | | | | | |
| 051921 | BISON-LED-13500-PC-60-G2-4K | 11215 | 78 | 144 | 55 | 660x330x55 | 617x287 |
| 051922 | BISON-LED-13500-PC-30-G2-4K | 11388 | 78 | 146 | 55 | 660x330x55 | 617x287 |
| 051927 | BISON-LED-26500-PC-60-G2-4K | 22431 | 155 | 145 | 55 | 1220x330x55 | 1177x287 |
| 051928 | BISON-LED-26500-PC-30-G2-4K | 22777 | 155 | 147 | 55 | 1220x330x55 | 1177x287 |

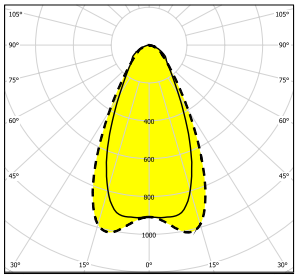
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

BISON-LED-CG/PC-30°



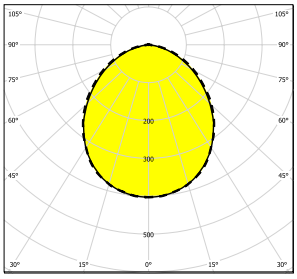
C0-C180 - - - - C90-C270

BISON-LED-CG/PC-60°



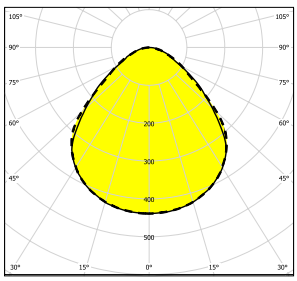
C0-C180 - - - - C90-C270

BISON-LED-OPG



C0-C180 - - - - C90-C270

BISON-LED-MP



C0-C180 - - - - C90-C270

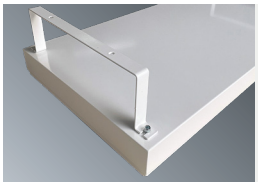
| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting spacing D x E (mm) |
|---|---|---|---|---|---|---|---|
| **MP** | | | | | | | |
| 051923 | BISON-LED-13500-MP-G2-4K | 11628 | 78 | 149 | 55 | 660x330x55 | 617x287 |
| 051933 | BISON-LED-19000-MP-G2-4K | 16341 | 110 | 149 | 55 | 660x580x55 | 621x541 |
| 051929 | BISON-LED-26500-MP-G2-4K | 23257 | 155 | 150 | 55 | 1220x330x55 | 1177x287 |
| 051935 | BISON-LED-37500-MP-G2-4K | 32682 | 220 | 149 | 60 | 1220x580x55 | 1177x537 |

## Accessories on request



**Suspended mounting**

004768 snap-hook 6030 – zinc



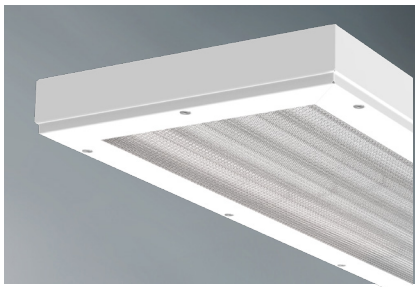
**Surface mounting**

051227 Bracket for surface mounting BISON G2 330 mm

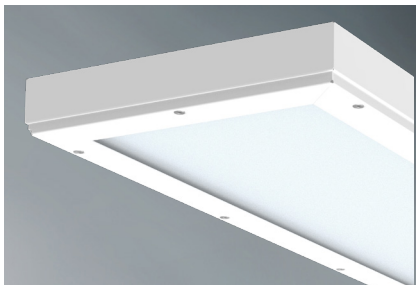
051228 Bracket for surface mounting BISON G2 580 mm

## Lighting fixture detail

**MP - microprismatic diffuser**



**OPG - opal glass**



**hanging-hook (part of standard equipment)**



## On request

**DIM** – dimmable electronic ballast (DALI,DSI, 1-10V)
**GESIS** – possibility to equip lighting fixtures with connectors
**2.7K-6.5K** - colour temperature
**NEREZ** –housing is made from stainless steel (in case of NEREZ version its declared for ambient temperature decreased about 5-10°C)

**RAL** – other colour scale
**ADELS** - possibility to equip lighting fixtures with connector terminal block
**NANO** – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

| Stadard order number | EM-1H | EM-3H | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| 051920 | X | X | X | X | 051920 DALI | X | X |
| 051921 | X | X | X | X | 051921 DALI | X | X |
| 051922 | X | X | X | X | 051922 DALI | X | X |
| 051923 | X | X | X | X | 051923 DALI | X | X |
| 051924 | X | X | X | X | 051924 DALI | X | X |
| 051925 | X | X | X | X | 051925 DALI | X | X |
| 051926 | X | X | X | X | 051926 DALI | X | X |
| 051927 | X | X | X | X | 051927 DALI | X | X |
| 051928 | X | X | X | X | 051928 DALI | X | X |
| 051929 | X | X | X | X | 051929 DALI | X | X |
| 051930 | X | X | X | X | 051930 DALI | X | X |
| 051931 | X | X | X | X | 051931 DALI | X | X |
| 051932 | X | X | X | X | 051932 DALI | X | X |
| 051933 | X | X | X | X | 051933 DALI | X | X |
| 051934 | X | X | X | X | 051934 DALI | X | X |
| 051935 | X | X | X | X | 051935 DALI | X | X |

# RUSSELL-LED

IP 65

5 year warranty



**Application:** Dustproof high-bay lighting fixture RUSSELL-LED in degree of protection IP65 is designed for lighting of halls and industrial areas.

**Ballast:** EP – electronic 110-240V/50-60Hz

**Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** Painted aluminium casting (RAL 9005)

**Diffuser:** Clear hardened safety thermally toughtened glass (120°beam angle), PC LED optics (90° beam angle)

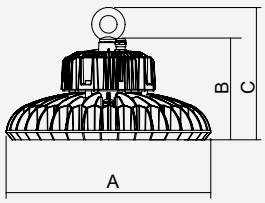
**Fastening:** mounting via suspension bracket or via adjustable bracket

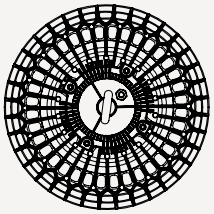
**Connection:** The lighting fixture is provided as a standard with 2 m cable (3x1.5 mm²), that is terminated by soldered (tinned) wire ends

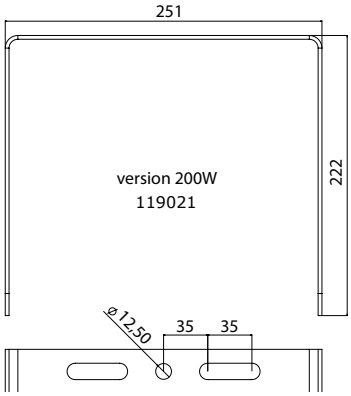
**Standard equipment:** 1 pc suspension bracket M5

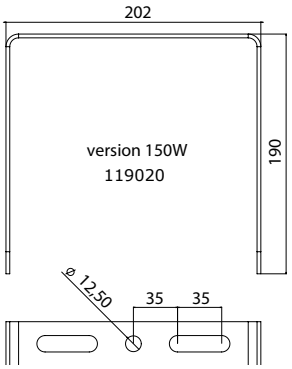
**Calculated lifetime – LED modules:**

L80B10 ta30 – 50 000h
L70B10 ta30 – 80 000h



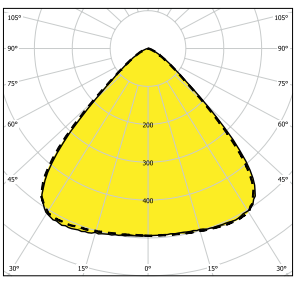


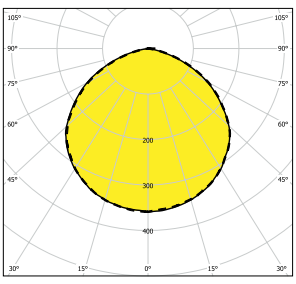

| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting spacing A x B (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 119010 | RUSSELL-LED-14500-4K-90° | 14456 | 103 | 140 | 50 | 340x138x187 | - | 3,6 |
| 119011 | RUSSELL-LED-22000-4K-90° | 21436 | 162 | 132 | 50 | 400x148x197 | - | 4,7 |
| 119012 | RUSSELL-LED-14500-4K-120° | 14313 | 103 | 139 | 50 | 340x138x187 | - | 3,6 |
| 119013 | RUSSELL-LED-22000-4K-120° | 22242 | 162 | 137 | 50 | 400x148x197 | - | 4,7 |
| 119014 | RUSSELL-LED-19000-4K-90° | 19535 | 146 | 134 | 50 | 340x138x187 | - | 3,6 |
| 119015 | RUSSELL-LED-26500-4K-90° | 25950 | 197 | 132 | 50 | 400x148x197 | - | 4,7 |
| 119017 | RUSSELL-LED-19000-4K-120° | 18907 | 146 | 130 | 50 | 340x138x187 | - | 3,6 |
| 119018 | RUSSELL-LED-26500-4K-120° | 25657 | 197 | 130 | 50 | 400x148x197 | - | 4,7 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

RUSSEL-LED-90°




RUSSEL-LED-120°



## Accessories on request



**Suspended mounting**

004768 Snap-hook 6030 - zinc



**Direct mounting**

119020 Adjustable bracket RUSSELL-LED-19000



**Direct mounting**

119021 Adjustable bracket RUSSELL-LED-26500

## Lighting fixture detail





## On request

**GESIS** – possibility to equip lighting fixtures with connectors

**2.7K-6.5K** - colour temperature

**DIM** – dimmable electronic ballast (DALI)

| Stadard order number | EM-1H | EM-3H | MULTI-1H | MULTI-3H | DALI | 1F | 3F |
|---|---|---|---|---|---|---|---|
| 119010 | X | X | X | X | X | X | X |
| 119011 | X | X | X | X | X | X | X |
| 119012 | X | X | X | X | X | X | X |
| 119013 | X | X | X | X | X | X | X |
| 119014 | X | X | X | X | 119022 | X | X |
| 119015 | X | X | X | X | 119023 | X | X |
| 119017 | X | X | X | X | 119024 | X | X |
| 119018 | X | X | X | X | 119025 | X | X |

# XOLO-LED

IP 66

5 year warranty



CE | EMC | EAC | ta -40°C min | EVG | LED | 220-240V 50-60 Hz

**Application:** The lighting fixture XOLO-LED is suitable for lighting of outdoor areas, main and side roads of towns and villages, car parks and industrial premises.

**Ballast:** EP – electronic 220-240 V/50/60Hz

**Light source:** LED, 4000K, CRI +70, MacAdam3

**Diffuser:** Hardened safety glass

**Housing:** Aluminium casting, grey colour RAL 9006

**Optics:**
**BW** Lighting fixtures with this type of optics are designed for lighting of roads and outdoor car parks.
**SQ** Lighting fixtures with this type of optics are designed for installation in the middle of an illuminated area, they are commonly used for for commercial parking spaces.
**W** Lighting fixtures with this type of optics are ideal for lighting of narrow paths and walkways.
**AS** Lighting fixtures with this type of optics are ideal for lighting of pedestrian crossings with right-hand traffic.

**Fastening:** For bracket columns and masts with diameter of 48 - 60mm

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 2.5 mm

**Standard equipment:** Cable gland M20 for diameter of cable 7-12 mm

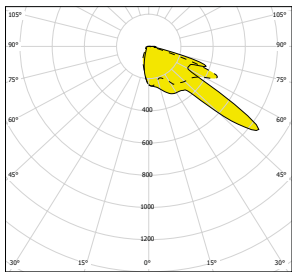
**Calculated lifetime – LED modules:**
L80B20 ta40°C – 80 000h




| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture AxBxC (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| 058950 | XOLO-LED-W-4300 -4K | 3380 | 25 | 135 | 50 | 722x265x91 | 10 |
| 058953 | XOLO-LED-W-6200-4K | 4845 | 40 | 121 | 50 | 722x265x91 | 10 |
| 058951 | XOLO-LED-BW-6200-4K | 5056 | 40 | 126 | 50 | 722x265x91 | 10 |
| 058955 | XOLO-LED-BW-8100-4K | 6739 | 56 | 120 | 50 | 722x265x91 | 10 |
| 058958 | XOLO-LED-BW-12000-4K | 10016 | 78 | 128 | 50 | 722x265x91 | 10 |
| 058961 | XOLO-LED-BW-14500-4K | 11788 | 95 | 124 | 50 | 722x265x91 | 10 |
| 058964 | XOLO-LED-BW-16000-4K | 13479 | 112 | 120 | 50 | 722x265x91 | 10 |
| 058967 | XOLO-LED-BW-18500-4K | 15024 | 117 | 128 | 50 | 722x265x91 | 10 |
| 058970 | XOLO-LED-BW-23500-4K | 20219 | 168 | 120 | 50 | 722x265x91 | 10 |
| 058952 | XOLO-LED-SQ-6200-4K | 5392 | 40 | 135 | 50 | 722x265x91 | 10 |
| 058956 | XOLO-LED-SQ-8100-4K | 7187 | 56 | 128 | 50 | 722x265x91 | 10 |
| 058959 | XOLO-LED-SQ-12000-4K | 10681 | 78 | 137 | 50 | 722x265x91 | 10 |
| 058962 | XOLO-LED-SQ-14500-4K | 12571 | 95 | 132 | 50 | 722x265x91 | 10 |
| 058965 | XOLO-LED-SQ-16000-4K | 14374 | 112 | 128 | 50 | 722x265x91 | 10 |
| 058968 | XOLO-LED-SQ-18500-4K | 16022 | 117 | 137 | 50 | 722x265x91 | 10 |
| 058971 | XOLO-LED-SQ-23500-4K | 21562 | 168 | 128 | 50 | 722x265x91 | 10 |
| 058954 | XOLO-LED-AS-6200-4K | 5143 | 40 | 129 | 50 | 722x265x91 | 10 |
| 058957 | XOLO-LED-AS-8100-4K | 6855 | 56 | 122 | 50 | 722x265x91 | 10 |
| 058960 | XOLO-LED-AS-12000-4K | 10188 | 78 | 131 | 50 | 722x265x91 | 10 |
| 058963 | XOLO-LED-AS-14500-4K | 11991 | 95 | 126 | 50 | 722x265x91 | 10 |
| 058966 | XOLO-LED-AS-16000-4K | 13711 | 112 | 122 | 50 | 722x265x91 | 10 |
| 058969 | XOLO-LED-AS-18500-4K | 15282 | 117 | 131 | 50 | 722x265x91 | 10 |
| 058972 | XOLO-LED-AS-23500-4K | 20567 | 168 | 122 | 50 | 722x265x91 | 10 |

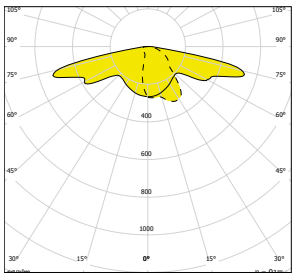
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

XOLO-AS



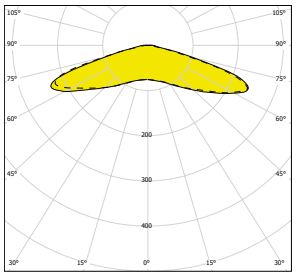
C0-C180 - - - - C90-C270

XOLO-BW



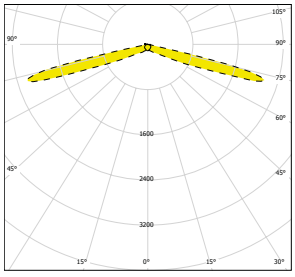
C0-C180 - - - - C90-C270

XOLO-SQ



C0-C180 - - - - C90-C270

XOLO-W



C0-C180 - - - - C90-C270

Public lighting fixtures

## Accessories on request

| | |
|---|---|
| 141116 | pole reduction 50/60 |

## Lighting fixture detail





## On request

**2.7K-6.5K** - colour temperature
**DIM** – DALI, MIDNIGHT, BILEVEL, AMP DIM, REDUCTION
(MIDNIGHT, BILEVEL, REDUCTION - dimming according to the programmed parameters)
**AMP DIM** - (dimming according to the voltage in the distribution network)



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# GREY-LED

IP 66

5 year warranty



LED | ta -40°C min. | EVG | EVG DIMM | 5 years Warranty | 220-240V 0 Hz | 220-240V 50-60 Hz

**Usage:** Dust proof reflector LED lighting fixture GREY-LED of IP66 degree of protection is intended for illumination of indoor as well as outdoor areas, e.g. billboards, sports facilities, parking-sites, stores, outdoor work areas.

**Ballast:** EP – electronic - 220–240V, 50/60Hz, 220–240V, 0Hz

**Body:** Aluminium casting, black colour, RAL 9005, MATT

**Cover:** Hardened safety glass

**Optics:** S – optics with beam characteristic of symmetrical flood-light
AS – optics with beam characteristic of asymmetrical flood-light
H – optics with beam characteristic of symmetrical down-light
AH – optics with beam characteristic of asymmetrical down-light



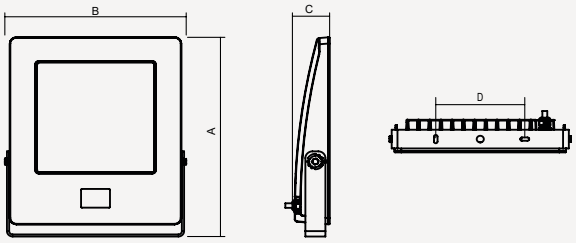


**Fastening:** At the bearing surface by means of positionable bracket

**Connection:** Screw-free, three-pole terminal strip, maximum conductor section area 2.5 mm²

**Standard equipment:** 1x packing gland including sealing

**Calculated service life of LED modules:** L80B10 ta50°C – 60 000h

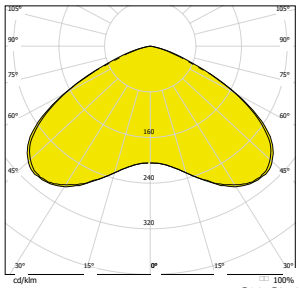



| S | AS | H | AH |
|---|---|---|---|
| 056920 | 056921 | 056922 | 056923 |
| 056924 | 056925 | 056926 | 056927 |
| 056928 | 056929 | 056930 | 056931 |
| 056932 | 056933 | 056934 | 056935 |
| 056936 | 056937 | 056938 | 056939 |

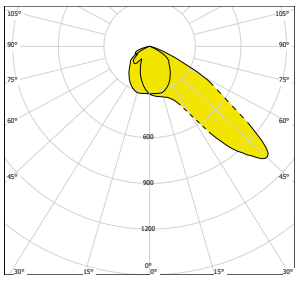
| Order number | Name | Lighting fixture luminous flux (lm) | Power input (W) | Rated power output (lm/W) | Ta max (°C) | Dimensions of lighting fixture A x B x C (mm) | Mounting spacing D (mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| **4000K** | | | | | | | | |
| 056920 | GREY-LED-S-17000-4K | 15933 | 103 | 155 | 60 | 480 x 400 x 80 | 200 | 10 |
| 056924 | GREY-LED-S-18500-4K | 17191 | 113 | 152 | 55 | 480 x 400 x 80 | 200 | 10 |
| 056928 | GREY-LED-S-21000-4K | 19631 | 133 | 148 | 50 | 480 x 400 x 80 | 200 | 10 |
| 056932 | GREY-LED-S-24500-4K | 23108 | 164 | 141 | 55 | 480 x 400 x 80 | 200 | 10 |
| 056936 | GREY-LED-S-29500-4K | 27450 | 206 | 133 | 45 | 480 x 400 x 80 | 200 | 10 |

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

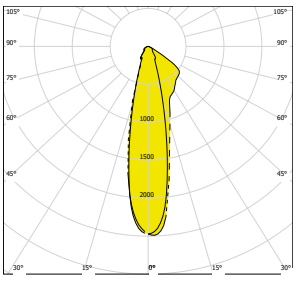
GREY-LED-S (symmetrical flood-light)



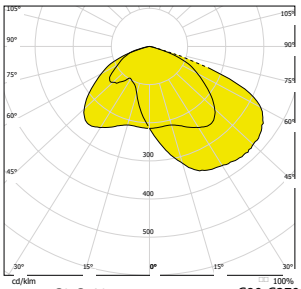

GREY-LED-AH (asymmetrical down-light)




GREY-LED-H (symmetrical down-light)




GREY-LED-AS (asymmetrical flood-light)




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