

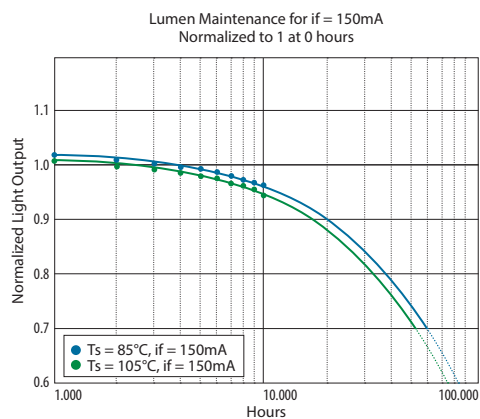
# SIRIO BLM Series

LED lamps with tube  $\varnothing$  70 mm



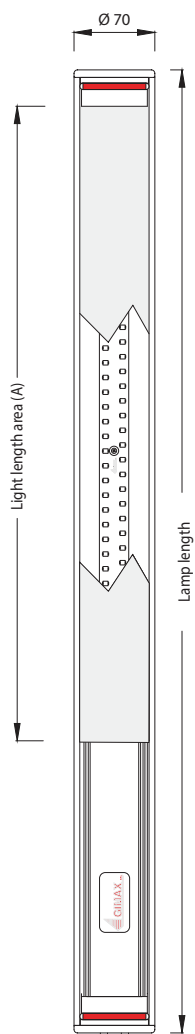
## Features

- Protective outer tube in Methacrylate (PPMA) or Borosilicate Glass (PY), thickness 5mm
- Side seal caps with protection degree IP67 (IEC 529, IEC 144, CEI 70-1)
- Waterproof cable gland (IP68) PM20
- Inner slide in extruded aluminium
- Removable opal diffusor
- Various models of mounting brackets on demand
- Drivers with power factor correction ( $>0,95$ ) designed and realised by GIMAX R&D department
- Construction in compliance with the current rules for the CE marking
- Very high efficiency LED modules (Lumileds) with colour temperature 6500°K, average lifetime  $>50.000$  hours
- No photobiological risk
- Colour rendering index CRI 80
- Working temperature  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Energy efficiency class A+++
- Class of insulation: II / III
- Light beam angle:  $180^{\circ}$  with opal diffusor



IP67





Standard version

## Outer tube in METHACRYLATE

| Item         | Power W | Volt. V       | Power factor | Luminous flux Lm (25°C) | Lamp length mm | Light length area (A) mm |
|--------------|---------|---------------|--------------|-------------------------|----------------|--------------------------|
| BLMMN1212400 | 12      | 24V<br>AC-DC  | > 0,95       | 2100                    | 505            | 290                      |
| BLMMN1812400 | 18      |               |              | 3060                    | 660            | 425                      |
| BLMMN2622400 | 26      |               |              | 4460                    | 1060           | 780                      |
| BLMMN4032400 | 40      |               |              | 6690                    | 1465           | 1185                     |
| BLMMN1214800 | 12      | 48V<br>AC-DC  | > 0,95       | 2100                    | 505            | 290                      |
| BLMMN1814800 | 18      |               |              | 3060                    | 660            | 425                      |
| BLMMN2624800 | 26      |               |              | 4460                    | 1060           | 780                      |
| BLMMN4034800 | 40      |               |              | 6690                    | 1465           | 1185                     |
| BLMMN1212200 | 12      | 230V<br>AC-DC | > 0,95       | 2100                    | 505            | 290                      |
| BLMMN1812200 | 18      |               |              | 3060                    | 660            | 425                      |
| BLMMN2622200 | 26      |               |              | 4460                    | 1180           | 820                      |
| BLMMN4032200 | 40      |               |              | 6690                    | 1565           | 1215                     |

## Outer tube in BOROSILICATE GLASS

| Item         | Power W | Volt. V       | Power factor | Luminous flux Lm (25°C) | Lamp length mm | Light length area (A) mm |
|--------------|---------|---------------|--------------|-------------------------|----------------|--------------------------|
| BLMBN1212400 | 12      | 24V<br>AC-DC  | > 0,95       | 2100                    | 505            | 290                      |
| BLMBN1812400 | 18      |               |              | 3060                    | 660            | 425                      |
| BLMBN2622400 | 26      |               |              | 4460                    | 1060           | 780                      |
| BLMBN4032400 | 40      |               |              | 6690                    | 1465           | 1185                     |
| BLMBN1214800 | 12      | 48V<br>AC-DC  | > 0,95       | 2100                    | 505            | 290                      |
| BLMBN1814800 | 18      |               |              | 3060                    | 660            | 425                      |
| BLMBN2624800 | 26      |               |              | 4460                    | 1060           | 780                      |
| BLMBN4034800 | 40      |               |              | 6690                    | 1465           | 1185                     |
| BLMBN1212200 | 12      | 230V<br>AC-DC | > 0,95       | 2100                    | 505            | 290                      |
| BLMBN1812200 | 18      |               |              | 3060                    | 660            | 425                      |
| BLMBN2622200 | 26      |               |              | 4460                    | 1180           | 820                      |
| BLMBN4032200 | 40      |               |              | 6690                    | 1565           | 1215                     |

**NOTE:** Custom solutions available on demand (Voltages, Power, etc.)

## Mounting brackets | Dimensions and features on page 40/41



Item **STD1**  
Item **STD1/INOX**



Item **STD2**  
Item **STD2/INOX**



Item **STD3**



Item **CLC70**

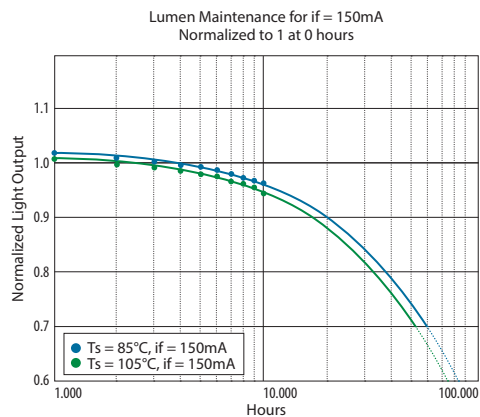
# SIRIO BLS Series

LED lamps with tube  $\varnothing$  60 mm



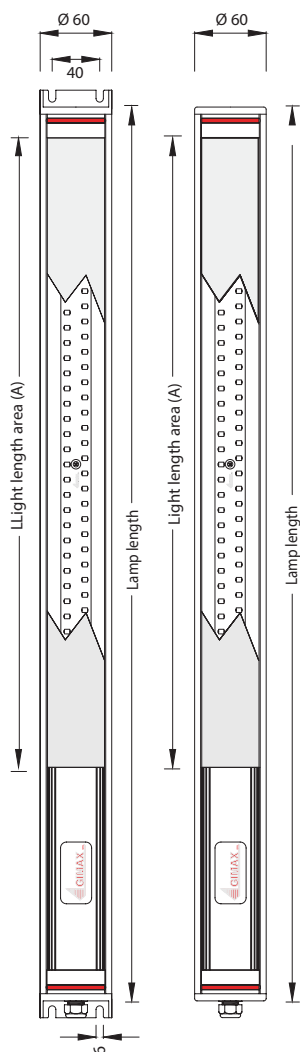
## Features

- Protective outer tube in Methacrylate (PPMA) or Borosilicate Glass (PY), thickness 5mm
- Side seal caps with protection degree IP67 (IEC 529, IEC 144, CEI 70-1) with or without fixing feet
- Waterproof cable gland (IP68) PM16
- Inner slide in extruded aluminium
- Removable opal diffusor
- Various models of mounting brackets on demand
- Drivers with power factor correction ( $>0.95$ ) designed and realised by GIMAX R&D department
- Construction in compliance with the current rules for the CE marking
- Very high efficiency LED modules (Lumileds) with colour temperature 6500°K, average lifetime  $>50.000$  hours
- No photobiological risk
- Colour rendering index CRI 80
- Working temperature  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Energy efficiency class A+++
- Class of insulation: II / III
- Light beam angle:  $180^{\circ}$  with opal diffusor



IP67





## Outer tube METHACRYLATE

| Item         | Power W | Volt. V       | Power factor | Luminous flux Lm (25°C) | Lamp length mm | Light length area (A) mm |
|--------------|---------|---------------|--------------|-------------------------|----------------|--------------------------|
| BLSMN1212400 | 12      | 24V<br>AC-DC  | > 0,95       | 2100                    | 495            | 290                      |
| BLSMN1812400 | 18      |               |              | 3060                    | 650            | 425                      |
| BLSMN2622400 | 26      |               |              | 4460                    | 1050           | 780                      |
| BLSMN4032400 | 40      |               |              | 6690                    | 1455           | 1185                     |
| BLSMN1214800 | 12      | 48V<br>AC-DC  | > 0,95       | 2100                    | 495            | 290                      |
| BLSMN1814800 | 18      |               |              | 3060                    | 650            | 425                      |
| BLSMN2624800 | 26      |               |              | 4460                    | 1050           | 780                      |
| BLSMN4034800 | 40      |               |              | 6690                    | 1455           | 1185                     |
| BLSMN1212200 | 12      | 230V<br>AC-DC | > 0,95       | 2100                    | 495            | 290                      |
| BLSMN1812200 | 18      |               |              | 3060                    | 650            | 425                      |
| BLSMN2622200 | 26      |               |              | 4460                    | 1170           | 830                      |
| BLSMN4032200 | 40      |               |              | 6690                    | 1555           | 1215                     |

## Outer tube in BOROSILICATE GLASS

| Item         | Power W | Volt. V       | Power factor | Luminous flux Lm (25°C) | Lamp length mm | Light length area (A) mm |
|--------------|---------|---------------|--------------|-------------------------|----------------|--------------------------|
| BLSBN1212400 | 12      | 24V<br>AC-DC  | > 0,95       | 2100                    | 495            | 290                      |
| BLSBN1812400 | 18      |               |              | 3060                    | 650            | 425                      |
| BLSBN2622400 | 26      |               |              | 4460                    | 1050           | 780                      |
| BLSBN4032400 | 40      |               |              | 6690                    | 1455           | 1185                     |
| BLSBN1214800 | 12      | 48V<br>AC-DC  | > 0,95       | 2100                    | 495            | 290                      |
| BLSBN1814800 | 18      |               |              | 3060                    | 650            | 425                      |
| BLSBN2624800 | 26      |               |              | 4460                    | 1050           | 780                      |
| BLSBN4034800 | 40      |               |              | 6690                    | 1455           | 1185                     |
| BLSBN1212200 | 12      | 230V<br>AC-DC | > 0,95       | 2100                    | 495            | 290                      |
| BLSBN1812200 | 18      |               |              | 3060                    | 650            | 425                      |
| BLSBN2622200 | 26      |               |              | 4460                    | 1170           | 830                      |
| BLSBN4032200 | 40      |               |              | 6690                    | 1555           | 1215                     |

**NOTE:** Custom solutions available on demand (Voltages, Power, etc.)

## Mounting brackets | Dimensions and features at page 40/41



Item **STD1/60**  
Item **STD1/60/INOX**



Item **STD2/60**



Item **CLC60**



Version with fixing feet, add "S" to the item

# SIRIO BLG Series

LED lamps with tube  $\varnothing$  50 mm

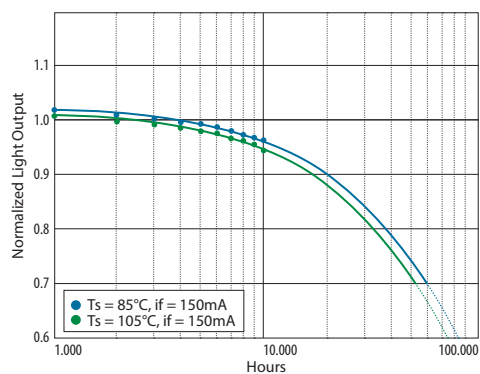


## Features

- Protective outer tube in Polycarbonate (PC), thickness 1,5mm
- Side seal caps with protection degree IP67 (IEC 529, IEC 144, CEI 70-1)
- Waterproof cable gland (IP68) PM20
- Inner slide in extruded aluminium
- Removable opal diffusor
- Various models of mounting brackets on demand
- Drivers with power factor correction ( $> 0,95$ ) designed and realised by GIMAX R&D department
- Construction in compliance with the current rules for the CE marking
- Very high efficiency LED modules (Lumileds) with colour temperature 6500°K, average lifetime  $>50.000$  hours
- No photobiological risk
- Colour rendering index CRI 80
- Working temperature  $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Energy efficiency class A+++
- Class of insulation: II / III
- Light beam angle:  $180^{\circ}$  with opal diffusor

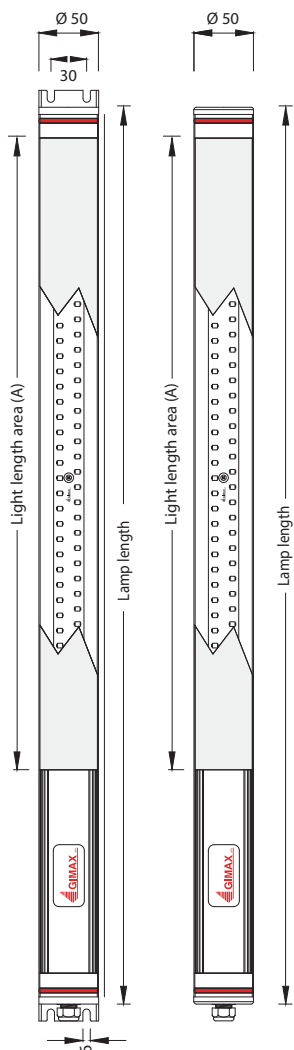


Lumen Maintenance for  $if = 150\text{mA}$   
Normalized to 1 at 0 hours



IP67





## Tube in POLYCARBONATE

| Item                | Power W | Volt. V       | Power factor | Luminous flux Lm (25°C) | Lamp length mm | Light length area (A) mm |
|---------------------|---------|---------------|--------------|-------------------------|----------------|--------------------------|
| <b>BLGPN1212400</b> | 12      | 24V<br>AC-DC  | > 0,95       | 2100                    | 475            | 275                      |
| <b>BLGPN1812400</b> | 18      |               |              | 3060                    | 640            | 425                      |
| <b>BLGPN2622400</b> | 26      |               |              | 4460                    | 1050           | 790                      |
| <b>BLGPN4032400</b> | 40      |               |              | 6690                    | 1445           | 1185                     |
| <b>BLGPN1214800</b> | 12      | 48V<br>AC-DC  | > 0,95       | 2100                    | 475            | 275                      |
| <b>BLGPN1814800</b> | 18      |               |              | 3060                    | 640            | 425                      |
| <b>BLGPN2624800</b> | 26      |               |              | 4460                    | 1050           | 790                      |
| <b>BLGPN4034800</b> | 40      |               |              | 6690                    | 1445           | 1185                     |
| <b>BLGPN1212200</b> | 12      | 230V<br>AC-DC | > 0,95       | 2100                    | 475            | 275                      |
| <b>BLGPN1812200</b> | 18      |               |              | 3060                    | 640            | 425                      |
| <b>BLGPN2622200</b> | 26      |               |              | 4460                    | 1160           | 830                      |
| <b>BLGPN4032200</b> | 40      |               |              | 6690                    | 1545           | 1215                     |

**NOTE:** Custom solutions available on demand (Voltages, Power, etc.)



Version with fixing feet, add "S" to the item



Standard version

## Mounting brackets | Dimensions and features at page 41



Item **OBO/01**

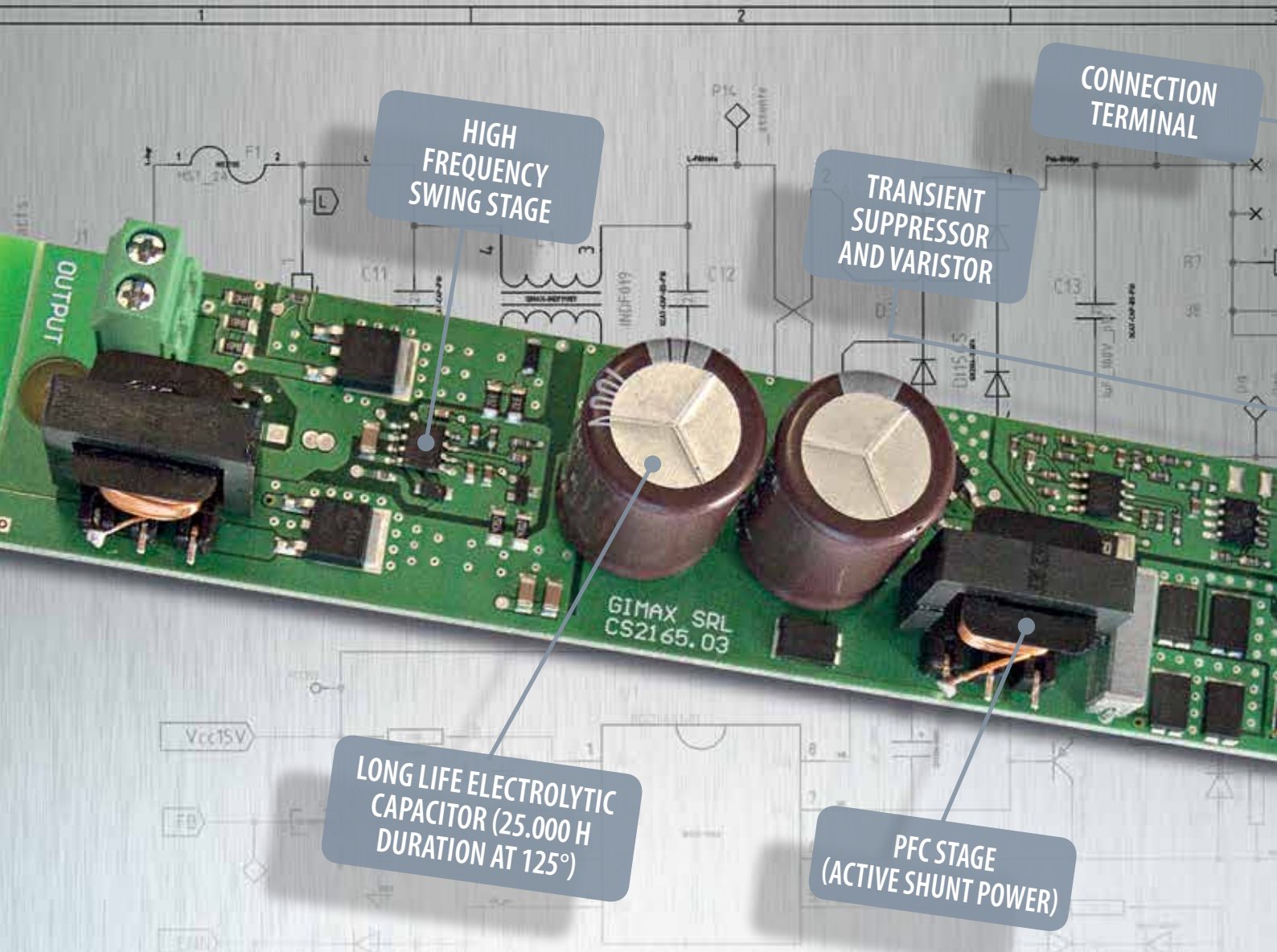


Item **CLC50**



Version with fixing feet, add "S" to the item





## APPLICATIONS

Machine tools • CNC • Automation • Electrical switchboards • Lifting platforms  
Cranes and containers • Paper mills • Work benches • Suction hoods • Tunnels • Subways

### LED LIGHTING MODULES

Gimax LED lamps are built using LEDs with shape, dimensions and placement designed to optimize light emission. The colour temperature in use is 6500°K (cool white).

These products have been developed in compliance with the most restricted safety rules with regard to biocompatibility and to avoid the risk of eye damages.

#### Comparison of duration among the various light sources

Incandescent lamps .....500÷2.000 hours  
Fluorescent lamps .....8.000÷20.000 hours  
LED lamps.....50.000÷100.000 hours

#### Advantages of LED lighting

- LED diodes, high efficiency Lumileds (170 Lm/W)
- Average duration >50.000 hours
- Very low sensitivity to the repetitive switching-on
- No absorption peaks at switching-on
- Instantaneous light emission at switching-on
- Total exploitation of light emission at 180° with opal diffusers
- Colour rendering index CRI 80

- Energy efficiency class A+++
- Working temperature -20°C ÷ +50° C

#### ELECTRONIC BALLASTS (DRIVERS) WITH POWER FACTOR CORRECTION

- Made of high quality selected components and designed by the GIMAX R&D department.
- Electronic switching stage through PWM to keep the supplied current to the lamp as constant according to the voltage range shown from label data.
- The operating frequency is well above the threshold of human perception allowing to minimize the stroboscopic effect providing a pleasant visual well-being.
- Active PFC stage (Power Factor Corrector) to reduce apparent power absorption. The active stage C.C.M. (Continuous Conduction Mode) minimizes the peaks of current at switching-on and current waves of the EMC, input and output. Such features are very important in automation industry.

The system is protected against ESD (Electrostatic Discharge) and temporary extra-voltage.

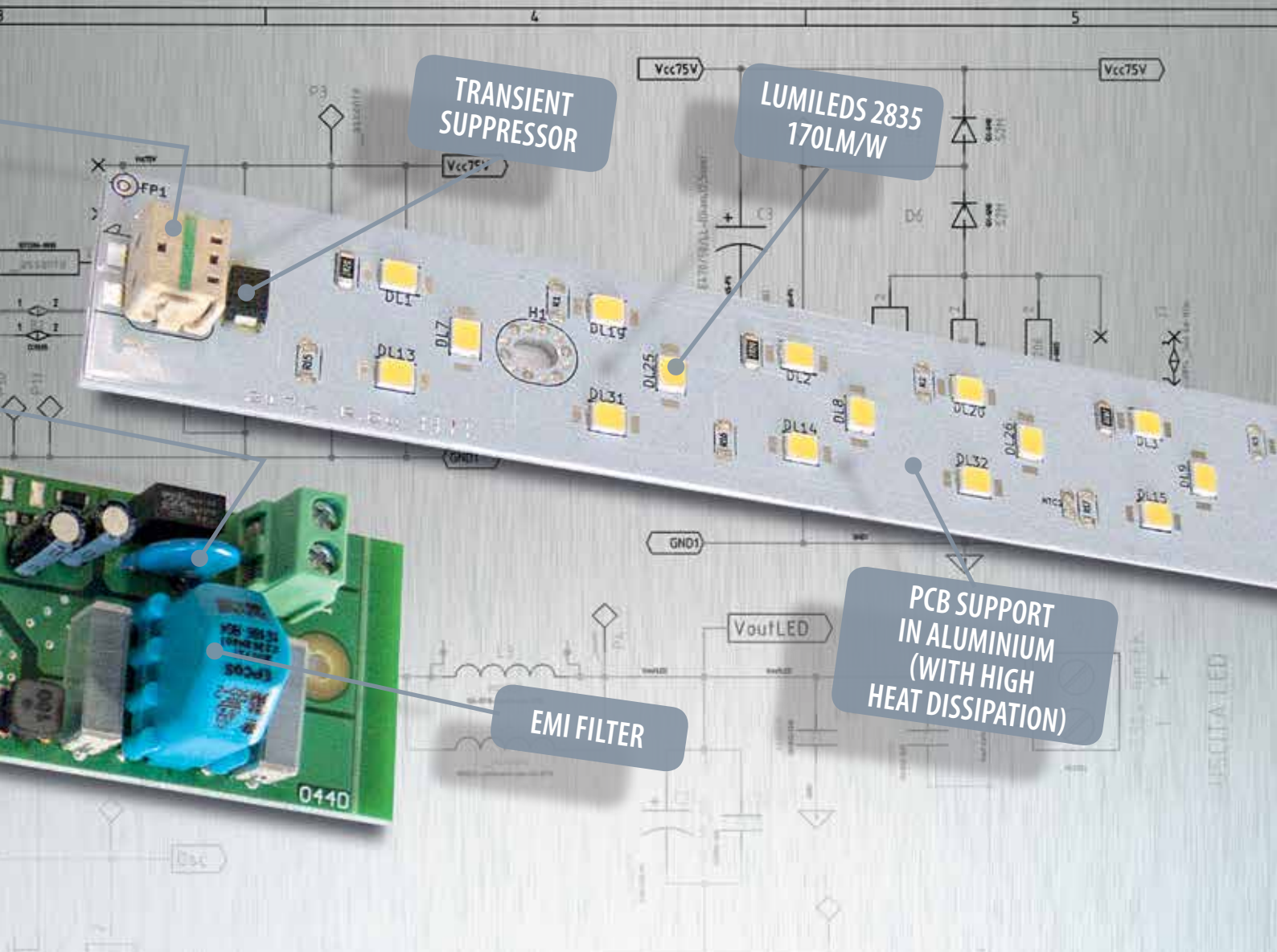
Components guarantee a long lifespan and working temperature of the item.

- Voltage supply: 24V ac-dc, 48V ac-dc, 230V ac-dc. Other voltages on demand.
- In compliance with Standards EN60928 (Safety), EN 61547 (Immunity EMC), EN61000-3-2 (Wave suppression), EN61000-3-3 (Flickering), 61000-4-2 (electrostatic discharges), 61000-4-3 (electromagnetic fields), 61000-4-4 (fast transients), 61000-4-5 (over-voltages), 61000-4-6 (conducted disturbances), 61000-4-11 (changes in voltage), EN55015 (Radio disturbances), EN60598-1, EN 60598-2-1 (electrical equipment), EN61347-1 (general rules), EN61347-2-3 (Safety of electronic ballasts), EN60249-1 (components of electronic ballasts).

#### LAMP WITH METHACRYLATE TUBE (PPMA) TO BE USED IN LOW PRESENCE OF AGGRESSIVE CHEMICALS

- High transparency and brightness.
- Excellent resistance to wide temperature ranges as well as atmospheric and ageing agents.
- Good resistance to chemicals such as alkalis, weak





# SIRIO LED Series | COMPACT LED

Lamps with tube in METHACRYLATE | BOROSILICATE GLASS | POLYCARBONATE

acids, inks, cosmetics and aliphatic hydrocarbons (oils and greases).

- Maximum working temperature 85-90°C.
- Tube thickness 5 mm, external diameter 60 or 70 mm

#### LAMP WITH TUBE IN BOROSILICATE GLASS TO BE USED IN HIGH PRESENCE OF AGGRESSIVE CHEMICALS

- Tube in PY borosilicate glass, high resistance to chemicals.
- Thermal shock DIN 52323 at 250°C.
- Thermal expansion (at 20÷300°C) 3,25 x 10 x K according to DIN 52328.
- High resistance to the most common chemicals such as alkalis, weak acids, inks, cosmetics and aliphatic hydrocarbons (oils and greases).
- Ovalization according to DIN 7184.
- Tube thickness 5 mm, external diameter 60 or 70 mm (+/- 1,5 mm).

#### LAMP WITH TUBE IN POLYCARBONATE (PC) TO BE USED IN PRESENCE OF NO AGGRESSIVE CHEMICALS

- High transparency and brightness.

- Very good resistance to shocks (virtually unbreakable).
- Low resistance to chemicals such as mineral acids of medium concentration, alcohols with the exception of methyl alcohol, aliphatic hydrocarbons (oils and greases).
- Maximum working temperature up to 100°C.
- Tube thickness 1,5 mm and external diameter 50mm

#### SIDE SEAL CAPS

- Side seal caps made of TAROPLAST (Taromid A 280 MT6) 6,6 loaded with 50% glass fiber (PA6,6+50%G.F.) to guarantee a good mechanical resistance against solicitations like traction, compression and flexion.
- Every cap is made of two distinct parts that, during the tightening of the three screws, push the silicone O-ring against the tube assuring the perfect seal against infiltrations (IP67 according the Regulations IEC529 and CEI 70-1).
- Cable gland IP68 PM20 made in Polyamide PA6.6 (cables Ø 7÷13mm) or PM16 (cables Ø 5÷10mm).
- Side seal caps are available with or without fixing feet

(Lamps Ø 50 and 60 mm).

#### INNER SUPPORT IN ALUMINIUM WITH OPAL DIFFUSOR

- Inner profile in extruded aluminium to support electrical components and to allow heat dissipation.
- Opal profile in polycarbonate, removable, to optimize light diffusion (180°) and to completely avoid the operator gets dazzled by light (no photobiological risk).
- Easily removable to obtain a narrow beam illumination (120°).

#### MOUNTING BRACKETS

- Mounting brackets made in electro-galvanised or stainless steel AISI 304 tightened by screws (Ø 60 and 70mm) equipped with soft rubber anti-vibration rings.
- Mounting brackets made in thermoplastic material with an excellent chemical resistance to inorganic acids and alkaline solutions. Limited resistance to acetone, organic acids, gasoline, benzol, diesel and oils. Working temperatures -20°C +70°C.