

BEGA 85159K3 Performance Floodlight



BEGA 85159K3 Performance Floodlight Instruction Manual

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BEGA

BEGA 85159K3 Performance Floodlight



Product Information

Specifications:

- **Module connected wattage:** 10.2 W
- **Luminaire connected wattage:** 11.8 W
- **Rated temperature:** 25-50°C
- **Ambient temperature:** 25-50°C
- **Colour temperature:** 3000 K (K3), 4000 K (K4)
- **Colour rendering index (CRI):** >90
- **Module luminous flux:** 1500 lm (K3), 1575 lm (K4)
- **Luminaire luminous flux:** 1098 lm (K3), 1153 lm (K4)
- **Luminaire luminous efficiency:** 93.1 lm/W (K3), 97.7 lm/W (K4)

Product Usage Instructions

• Safety Precautions:

The installation and operation of this luminaire must comply with national safety regulations. Only a qualified electrician should carry out installation and commissioning. The manufacturer is not liable for damages resulting from improper use or installation.

• Electrical Connection:

The electrical connection must be done with suitable connection terminals at the luminaire power supply cable. Ensure correct configuration of the main supply cable with earth conductor to green-yellow (1), phase to brown (L), and neutral conductor to blue (N) marked wire.

- **Maintenance:**

Regularly check the connecting cable for external damage. Maintenance tasks should be performed by a qualified electrician. Do not remove the desiccant bag from the luminaire housing as it helps remove residual moisture.

FAQ:

- **Q: Can I use different wattage modules with this luminaire?**

A: No, the luminaire is designed for specific module-connected wattages. Using incompatible modules may lead to damage.

- **Q: What should I do if the luminaire is not operating at full light output?**


A: Check the connection of the control cables using the leads marked with DALI. If these leads are not used, the luminaire will operate at full light output.

Application

- Performance floodlight with G $\frac{1}{2}$ mounting bush.
- The floodlight can be bolted together with any female thread G $\frac{1}{2}$ according to ISO 228 supplied by others or to BEGA accessories.
- For a variety of interior and exterior lighting applications.

Product Description

- Luminaire made of aluminium alloy, aluminium and stainless steel
- BEGA Unidure® coating technology
- Colour graphite or silver
- Clear safety glass
- Silicone gasket
- The reflector surface is made of pure aluminium
- BEGA Hybrid Optics®
- The rotation range of floodlight is 350°
- Swivel range -30°/+100°
- Mounting bracket with G $\frac{1}{2}$ threaded connection
- Thread length: 14 mm
- Connecting cable X05BQ-F 5 G 1 mm²
- Cable length 1 m
- BEGA Ultimate Driver®
- Complies with flicker requirements by IEEE 1789,
- DIN IEC/TR 63158, DIN IEC/TR 61547-1
- LED power supply unit 220-240 V x 0/50-60 Hz
- DC 176-280 V
- DALI-controllable
- Number of DALI addresses: 1
- Basic insulation is provided between the mains and control cables

- BEGA Thermal Control®
- Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire
- Safety class I
- Protection class IP 65
- Dust-tight and protection against water jets
- Impact strength IK06
- Protection against mechanical impacts < 1 joule
-  – Conformity mark
- Wind catching area: 0.014 m²
- Weight: 1.3 kg
- This product contains light sources of energy efficiency class(es) E

Safety

- The installation and operation of this luminaire are subject to national safety regulations.
- Installation and commissioning may only be carried out by a qualified electrician.
- The manufacturer accepts no liability for damage caused by improper use or installation.
- If subsequent modifications are made to the luminaire, the person responsible for these modifications shall be considered the manufacturer.

Overvoltage protection

- The electronic components installed in the luminaire are protected against overvoltage by DIN EN 61547.
- To achieve additional protection against e. g. transients, etc. we recommend separate overvoltage protection components.
- You can find them on our website at www.bega.com.
- The ideal protection of all electronic components installed in the luminaires is achieved by using bounce-free switching contacts such as an electronic relay (solid-state relay), e.g. BEGA 71 320.

Installation

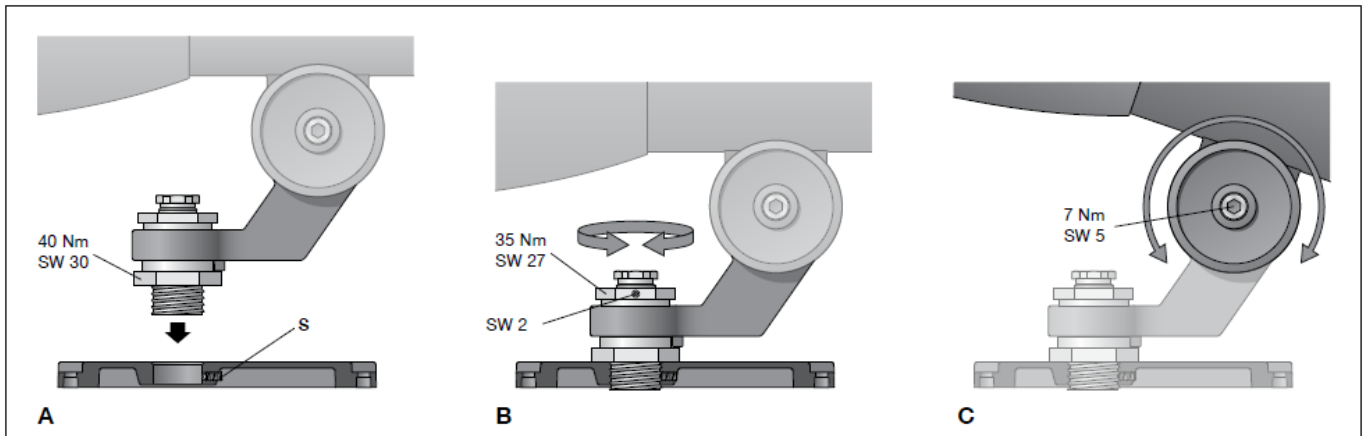
- Screw the floodlight G $\frac{1}{2}$ threaded connection firmly into the on-site G $\frac{1}{2}$ female thread or BEGA accessory.
- G $\frac{1}{2}$ threaded connection torque = 40 Nm.
- Secure the screw connection from loosening on site (if provided with locking screw S, see fig. A).
- Check the earth conductor connection between the G $\frac{1}{2}$ threaded connection and the on-site G $\frac{1}{2}$ female thread.


Adjust floodlight:

Undo the hexagon socket screw (wrench size 5 mm) and hexagon nut (wrench size 27 mm) and set the desired beam direction (see sketch B, C).

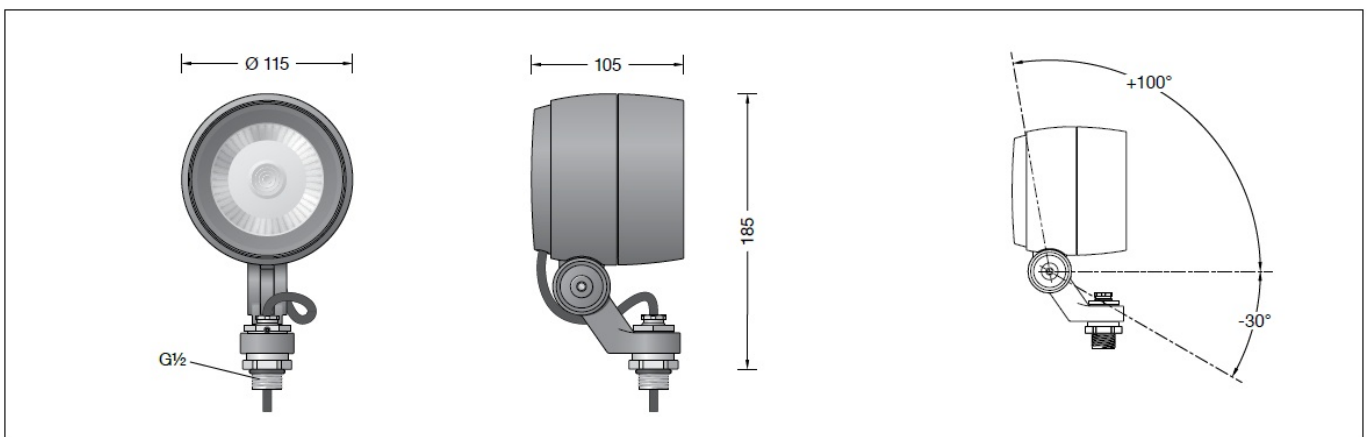
Torque:

- Hexagon socket screw = 7 Nm
- Hexagon nut = 35 Nm
- Secure bolted connection G $\frac{1}{2}$ against loosening by tightening the hexagon socket screws (wrench size 2 mm).



- The electrical connection must be carried out with matching protection class and safety class, strain-relieved, with suitable connection terminals (not included in the scope of delivery) at the luminaire power supply cable.
- Note the correct configuration of the main supply cable. The earth conductor is connected at the green-yellow (), the phase to the brown (L), and the neutral conductor to the blue (N) marked wire.
- The connection of the control cables is achieved using both leads marked with DALI. In case these leads are not used the luminaire will be operated at full light output.

Dimension



Lamp

- Module connected wattage 10.2 W
- Luminaire connected wattage 11.8 W
- Rated temperature $t_a = 25\text{ °C}$
- Ambient temperature $t_a \text{ max} = 50\text{ °C}$

85 159 K3

- Module designation LED-1148/930
- Colour temperature 3000 K
- Colour rendering index CRI > 90

- Module luminous flux 1500 lm
- Luminaire luminous flux 1098 lm
- Luminaire luminous efficiency 93,1 lm / W

85 159 K4

- Module designation LED-1148/940
- Colour temperature 4000 K
- Colour rendering index CRI > 90
- Module luminous flux 1575 lm
- Luminaire luminous flux 1153 lm
- Luminaire luminous efficiency 97,7 lm/W

Lighting technology

- Symmetrical wide beam light distribution
- Half beam angle 45°
- For special lighting applications, an optical filter can be used to change the symmetrical light cone into a flat beam light distribution.

Cleaning And Maintenance

- Clean the luminaire regularly with solvent-free cleansers from dirt and deposits.
- Do not use high-pressure cleaners.

Maintenance

The connecting cable must be checked for external damage and may only be replaced by a qualified electrician.

Please note:

- Do not remove the desiccant bag from the luminaire housing.
- It is needed to remove residual moisture.

Replacing the LED module

- The designation of the LED module is noted on a separate label in the luminaire or on the underside of the specific LED module.
- The light colour and light output of BEGA replacement modules correspond to those of the modules originally fitted. The replacement can be carried out by a qualified person using standard tools.
- Disconnect the system from the power supply.

Open the floodlight:

- Remove the trim ring along with the safety glass and reflector by twisting it anti-clockwise.
- Replace the LED module.

- Please follow the installation instructions for the LED module.
- Inspect and, if necessary, replace the luminaire gaskets.
- The defective glass must be replaced.
- Place the trim ring with glass and reflector on the floodlight housing so that the notches in the trim ring and luminaire housing sit on top of each other.
- Twist on the trim ring clockwise as far as the stop.

Accessories

- 71 289 Optical filter flat beam
- 71 331 Shield
- 71 336 Cylindrical shield
- 70 214 Pole cap for pole ø 48 mm
- 70 248 Pole cap for pole ø 60 mm
- 70 245 Mounting box
- 70 252 General fastener
- 70 280 Tube clamp G½
- 70 283 Screw clamp
- 70 379 Crossbeam G½
- 70 889 Tension belt

For the accessories, separate instructions for use can be provided upon request.

Spares Parts

- Trim ring graphite with glass 25 000 273
- Trim ring silver with glass 25 000 274
- LED power supply unit DEV-0515/300i
- LED module 3000 K LED-1148/930
- LED module 4000 K LED-1148/940
- Reflector 75 005 131
- Gasket housing 83 000 486
- Gasket trim ring 83 002 169

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Documents / Resources



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References

- BEGA [BEGA · Das gute Licht.](#)
- [User Manual](#)

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