



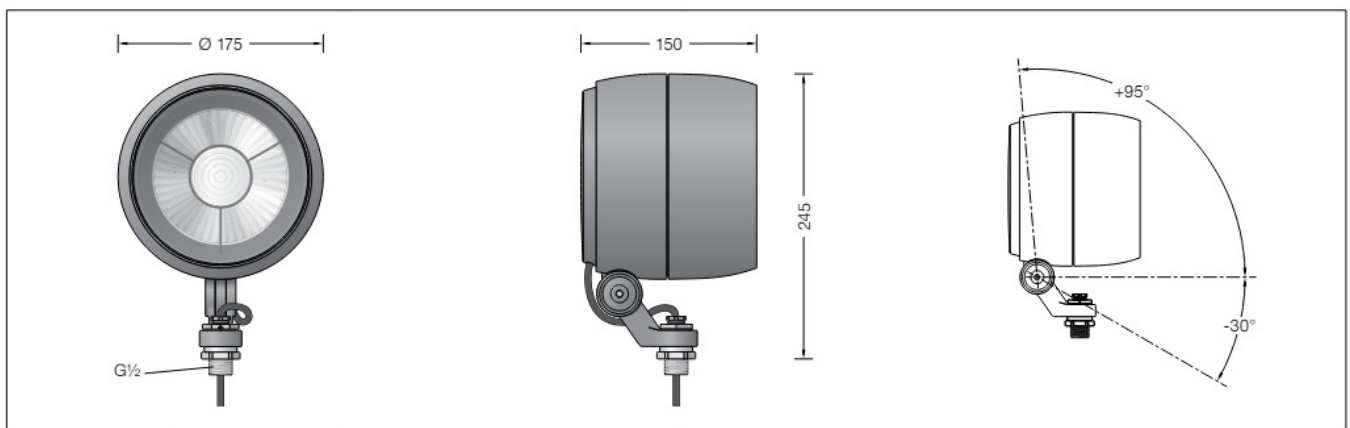
BEGA 85151 Performance Floodlight Instruction Manual

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BEGA

Technical amendments reserved
Performance floodlight
85 151

UK
CA  IP 65



Instructions for use

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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 Matt safety glass Silicone gasket

Reflector surface made of pure aluminium BEGA Hybrid Optics®

Rotation range of floodlight 350°

Swivel range -30°/+95°

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 in accordance with IEEE 1789,

DIN IEC/TR 63158, DIN IEC/TR 61547-1

LED power supply unit

220-240 V  0/50-60 Hz

DC 176-264 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: 0.028 m²

Weight: 2.8 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 in accordance with DIN EN 61547.

To achieve an 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:

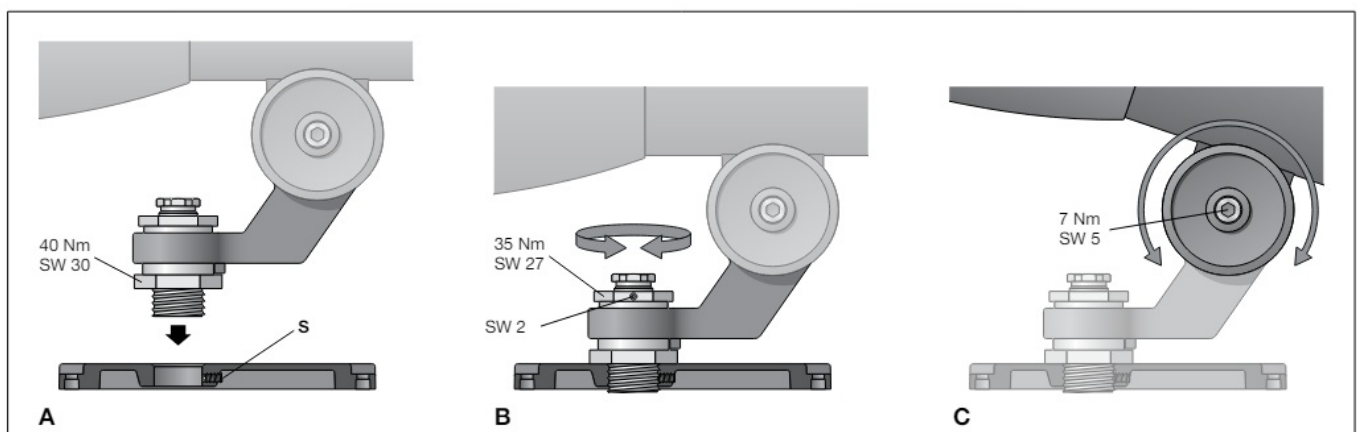
Undo hexagon socket screw (wrench size 5 mm) and hexagon nut (wrench size 27 mm) and set the desired beam direction (see sketch B, C).

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 correct configuration of the mains supply cable. The earth conductor is connected at the green-yellow (1), the phase to the brown (L), and the neutral conductor to the blue (N) marked wire.

The connection of the control cables is achieved by means of the both leads marked with DALI. In case these leads are not used the luminaire will be operated at full light output.

Lamp	
Module connected wattage	37.5 W
Luminaire connected wattage	40.5 W
Rated temperature	ta = 25 °C
Ambient temperature	ta max = 35 °C
85 151 K3	
Module designation	LED-0779/930
Colour temperature	3000 K
Colour rendering index	CRI > 90
Module luminous flux	4855 lm
Luminaire luminous flux	2712 lm
Luminaire luminous efficiency	67 lm / W
85 151 K4	
Module designation	LED-0779/940
Colour temperature	4000 K
Colour rendering index	CRI > 90
Module luminous flux	4930 lm
Luminaire luminous flux	2754 lm
Luminaire luminous efficiency	68 lm / W

Lighting technology

Focused light distribution with minimal diffuse light percentage.

Half beam angle 10°

For special lighting applications, an optical filter can be used to change the symmetrical light cone into a flat beam light distribution.

Cleaning · Maintenance

Clean luminaire regularly with solvent-free cleansers from dirt and deposits.

Do not use high pressure cleaners.

Maintenance

The connecting cable between mounting box and floodlight has to be inspected regarding obvious damages and has to be replaced by a qualified electrician only.

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 eplacement modules correspond to those of the modules originally

fitted. The module can be replaced by qualified persons using standard tools.

Disconnect the system.

Open the floodlight:

Undo locking pin (hexagon socket head wrench size 2.5 mm) on the back side of the floodlight housing.

Remove the trim ring along with the safety glass and reflector by twisting it counterclockwise.

Replace LED module.

Please follow the installation instructions for the LED module.

Inspect and, if necessary, replace the luminaire gaskets.

Defective glass must be replaced.

Place trim ring with glass and reflector on the floodlight housing in such a way that the notches in the trim ring and floodlight housing align on top to each other.

Twist on the trim ring clockwise as far as the stop. Tighten locking pin.

Accessories


71 291	Optical filter flat beam
71 333	Shield
71 338	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	Cross beam G½
70 889	Tension belt

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

Spares

Trim ring graphite with glass	25 000 254
Trim ring silver with glass	25 000 255
LED power supply unit	DEV-0270/1050i
LED module 3000 K	LED-0779/930
LED module 4000 K	LED-0779/940
Reflector	75 005 100
Gasket housing	83 001 579
Gasket trim ring	83 002 306

Documents / Resources

	<p>BEGA 85151 Performance Floodlight [pdf] Instruction Manual 85151, 85151K3, 85151K4, 85151 Performance Floodlight, Performance Floodlight, Floodlight</p>
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References

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

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