



## BEGA 85150 Performance Floodlight Instruction Manual

[Home](#) » [BEGA](#) » BEGA 85150 Performance Floodlight Instruction Manual 

### BEGA 85150 Performance Floodlight



## Contents

[1 Instructions for use](#)

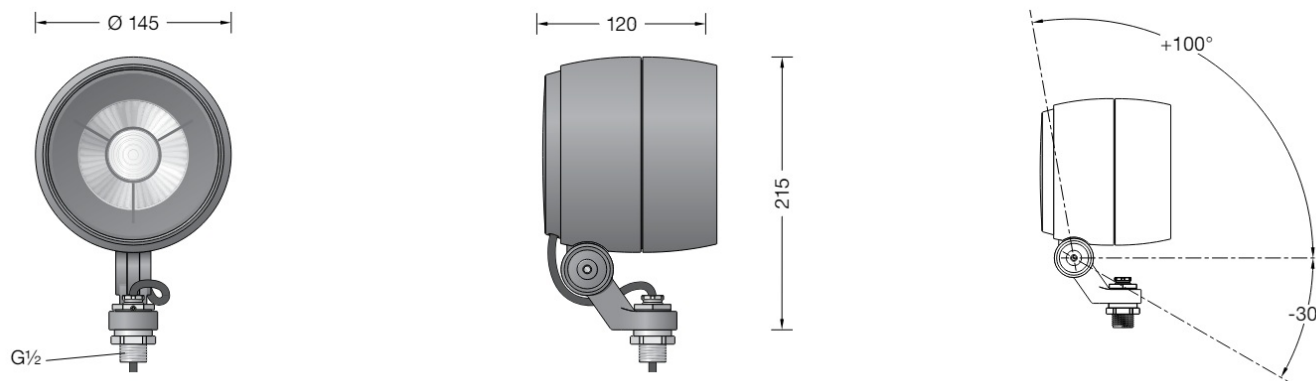
[2 Documents /  
Resources](#)

[2.1 References](#)

[3 Related Posts](#)

## Instructions for use

### Dimensions



### 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  $350^\circ$

**Swivel range**  $-30^\circ/+100^\circ$

Mounting bracket with  $G\frac{1}{2}$  threaded connection

**Thread length:** 14mm Connecting cable X05BQ-F 5G1mm<sup>2</sup> Cable length 1m

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  $\sim$  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 IK07 Protection against mechanical

**impacts** < 2 joule

**CE** – Conformity mark Wind catching area: 0.021 m<sup>2</sup>

**Weight:** 2.1 kg

This product contains light sources of energy efficiency class(es) F

**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](http://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 71320.

### **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 = 40Nm.

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:**

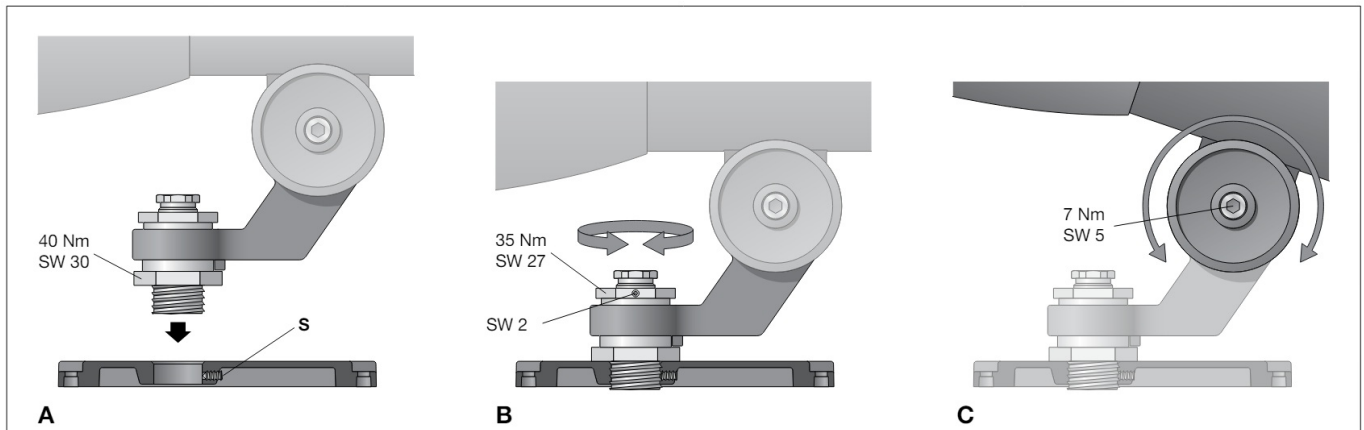
Undo hexagon socket screw (wrench size 5 mm) and hexagon nut (wrench size 27 mm) and set the desired beam direction (see sketch B, C).

#### **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 () , 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** 25.7 W

**Luminaire connected wattage** 28.5 W

**Rated temperature**  $t_a=25\text{ }^{\circ}\text{C}$

**Ambient temperature**  $t_a \text{ max}=30\text{ }^{\circ}\text{C}$

### **85 150K3**

**Module designation** LED-1145/930

**Colour temperature** 3000 K

**Colour rendering index** CRI >90

**Module luminous flux** 3140 lm

**Luminaire luminous flux** 1613 lm

**Luminaire luminous efficiency** 56,6 lm/W

### **85 150K4**

**Module designation** LED-1145/940

**Colour temperature** 4000 K

**Colour rendering index** CRI >90

**Module luminous flux** 3300 lm

**Luminaire luminous flux** 1695 lm

**Luminaire luminous efficiency** 59,5 lm/W

### **Lighting technology**

Focused light distribution with minimal diffuse light percentage.

**Half beam angle**  $10^{\circ}$

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 replacement 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**

**71 290** Optical filter flat beam

**71332** Shield

**71 337** 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** 25 000 252

**Trim ring silver with glass** 25 000 253

**LED power supply unit** DEV-0353/700

**LED module** 3000 K LED-1145/930

**LED module** 4000 K LED-1145/940

**Reflector** 75 005 076

**Gasket housing** 83 000 521

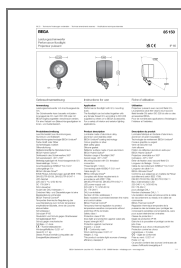
**Gasket Abschlussring** 83 002 222

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# BEGA

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## **Documents / Resources**



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## References

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

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