

**BEGA**  
**85168 RGBW**  
**Performance**  
**Floodlight**



# BEGA 85168 RGBW Performance Floodlight Instruction Manual

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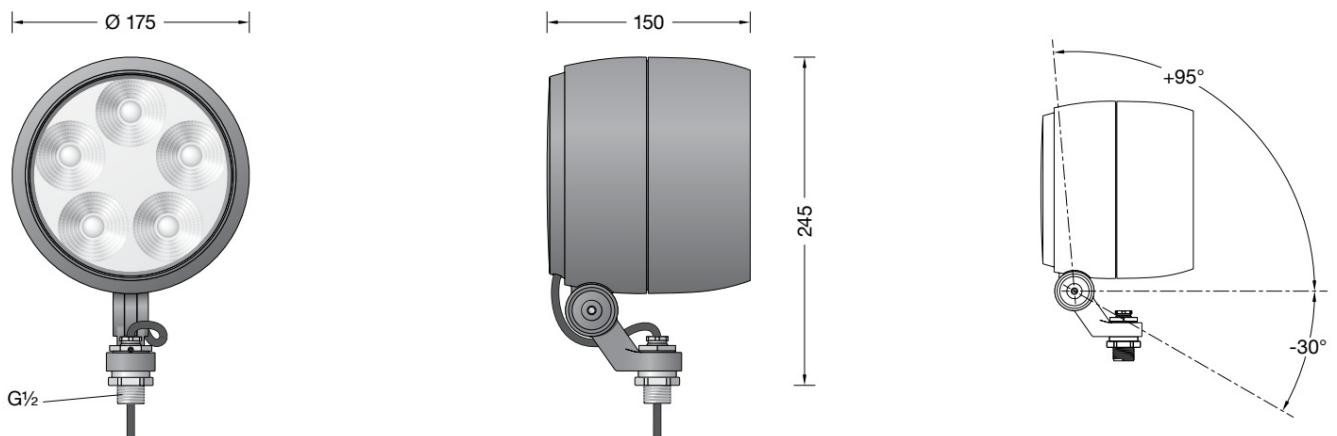
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# BEGA

**BEGA 85168 RGBW Performance Floodlight**



## Performance floodlight RGBW



## Instructions for use

### 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.
- The floodlight can be controlled by DALI color light control (DT8, RGBWAF, xy, TC).

## Product Description

- Luminaire made of aluminum alloy, aluminum, and stainless steel
- BEGA Unidure® coating technology
- Color graphite or silver
- Safety glass with optical structure

### **Silicone gasket**

- The reflector surface is made of pure aluminum
- BEGA Constant Optics®
- The rotation range of floodlight is 350°
- Swivel range -30°/+95°
- Mounting bracket with G½ threaded connection
- Thread length: 14mm
- Connecting cable X05BQ-F 5G1mm²
- 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 x 0/50-60 Hz
- DC 176-264 V
- DALI-controllable(DT8, RGBWAF, xy, TC)
- 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 IK08
- Protection against mechanical impacts < 5 joule
- c – Conformity mark
- Wind catching area: 0.028 m²
- Weight: 3.0 kg

### **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.

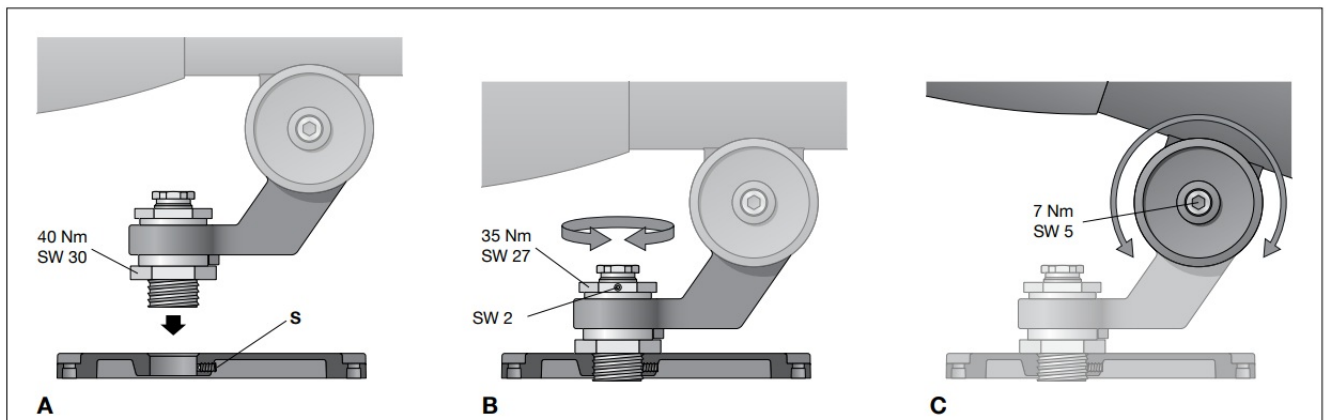
If subsequent modifications are made to the luminaire, the person responsible for these modifications shall be considered the manufacturer.

## 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](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 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  (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 using 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 34.8 W
- Luminaire connected wattage 38.6 W
- Rated temperature  $t_a=25\text{ }^{\circ}\text{C}$
- Ambient temperature  $t_a\text{ max}=30\text{ }^{\circ}\text{C}$

- Module designation LED-1160/RGBW
- The color temperature of the white LED 4000 K
- Luminaire luminous flux 2518 lm
- Luminaire luminous efficiency 65,2 lm/W

### **Light technique**

- Symmetrical wide beam light distribution
- Half beam angle 24°
- 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 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 color 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 the 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 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 in such a way that the notches in the trim ring and floodlight housing align on top of each other.
- Twist on the trim ring clockwise as far as the stop. Tighten the locking pin.

### **Accessories**

- 71 291 Optical filter flat beam
- 71333 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 Crossbeam G½
- 70 889 Tension belt


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

## Spares

- Trim ring graphite with glass 25 000 283
- Trim ring silver with glass 25 000 284
- LED power supply unit DEV-0357/200
- LED module LED-1160/RGBW
- Reflector 76 002 010
- Gasket housing 83 001 579
- Gasket trim ring 83 002 306
- The color temperature of the white LED: 4000 K
- Luminous luminaire flux: 2518 lm
- Luminaire luminous efficiency: 65.2 lm/W

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## Documents / Resources

	<p><b><a href="#">BEGA 85168 RGBW Performance Floodlight</a></b> [pdf] Instruction Manual  85168, LED-1160-RGBW, 85168 RGBW Performance Floodlight, 85168, RGBW Performance Floodlight, Performance Floodlight, Floodlight</p>
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## References

- <sup>BEGA</sup> [BEGA · Das gute Licht.](#)
- [User Manual](#)

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