



# BEGA 84 445 Performance Floodlight RGBW Instruction Manual

[Home](#) » [BEGA](#) » BEGA 84 445 Performance Floodlight RGBW Instruction Manual 

## Contents

- [1 BEGA 84 445 Performance Floodlight RGBW Instruction Manual](#)
- [2 Product description](#)
- [3 Installation](#)
- [4 Accessories](#)
- [5 Read More About This Manual & Download PDF:](#)
- [6 Documents / Resources](#)
  - [6.1 References](#)


## BEGA 84 445 Performance Floodlight RGBW Instruction Manual



### Application

Water-pressure-tight underwater floodlight for RGBW additive colour mixing for the illumination of non-accessible ponds, pools and water features with a depth up to 20 metres.

## Product description

- Luminaire housing made of dezincificationresistant cast brass
- Stainless steel mounting bracket
- Steel grade no. 1.4401, electropolished
- Clear safety glass
- Reflector surface made of pure aluminium
- Swivel range 120° 2 elongated fixing holes
- Width 9mm · 120mm spacing water-resistant connecting cable 07RN8-F 5G1@
- Cable length 7m
- BEGA Ultimate Driver®
- LED power supply unit (DT8, RGBWAF, xy) 220-240 V x 0/50-60 Hz
- DC 176-264 V
- BEGA Thermal Control®
- Temporary thermal regulation to protect temperature-sensitive components without\ switching off the luminaire
- Safety class I
- Protection class IP 68 20 m
- Dust-tight and water pressure tight
- Maximum submersion depth 20 m
-  Conformity mark
- **Weight:** 7.0 kg

## Lamp

**Module connected wattage** 43.9 W

**Luminaire connected wattage** 49 W

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

**Service life criteria** 50000 h/L70

**Module designation** LED-1241/RGBW

**Colour temperature of the white LED** 4000 K

**Luminaire luminous flux** \* 2400 lm

**Luminaire luminous efficiency** \* 49 lm/W

## Light technique

Narrow beam light distribution. Half beam angle 24° When designing a lighting installation under water, note that the amount of light absorbed by the water depends on the clarity of the water. Lighting intensity and brightness are less than with a free burning floodlight.

## 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).

## Installation

The floodlight may only be operated underwater in non-accessible areas of pools. The electrical connection must be made outside the water with the appropriate safety class and protection class on the floodlight connection line. Note correct configuration of the mains supply cable. Make mains supply connection at the brown (L), blue (N) and green-yellow lead (1). 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.

Pre-mount two mounting screws suitable for the installation surface at 120mm intervals in the desired position. Insert the floodlight with the bracket into the mounting screws and fasten.

### **Adjust the floodlight:**

Undo hexagon socket screws (wrench size 6 mm) and set the desired beam direction. Tighten the hexagon socket screws evenly

### **Cleaning · Maintenance**

Clean luminaire regularly with solvent-free cleansers from dirt and deposits. Do not use high pressure cleaners. To avoid surface damage to the floodlight, the water must have a neutral pH value and be free from substances that cause metal corrosion.

### **Please note:**

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

### **Replacing the LED module / Power supply unit**

The designation of the LED module is noted on a label in the luminaire. 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. LED are high-quality electronic components! Please avoid touching the light output opening of the LED directly during relamping.

Disconnect the system from the power supply. Loosen the fastening screws of the floodlight bracket at the installation base and remove the floodlight bracket backwards from the mounting screws. Lift the floodlight above the water level and clean it (see Cleaning · Maintenance). Open the floodlight: To do this, loosen the six hexagon socket screws (wrench size 4mm) on the back and remove the trim ring. Remove the gasket, glass and reflector. Replace LED module. Follow the installation instructions for the LED module. To replace the power supply unit, loosen the five hexagon socket screws (wrench size 4mm) and lift off the connection housing. Replace the LED power supply unit. Check gaskets and replace as needed. The floodlight housing must be completely clean and absolutely dry. Replace the connection housing and fasten. Tighten the screws evenly. Insert the reflector, glass and gasket. Replace the trim ring and tighten the screws evenly in a crosswise pattern. Tightening torque = 3,7 Nm Carry out a function test outside the water. Insert the floodlight with the bracket into the mounting screws and fasten it.

### **Accessories**

#### **71 265 Mounting plate**

Mounting plate for the positioning of an underwater floodlight if the floodlight will not be bolted to the on-site substrate. See the separate instructions for use.

### **Spares**

**Spare glass** 14 001 588

**LED power supply unit** DEV-0357/250

**LED module** LED-1241/RGBW

**Reflector** 76 002 010

**Gasket glass** 83 002 115

**Gasket housing** 83 002 199


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## Documents / Resources

	<p><b><a href="#">BEGA 84 445 Performance Floodlight RGBW</a></b> [pdf] Instruction Manual 84 445 Performance Floodlight RGBW, 84 445, Performance Floodlight RGBW, Floodlight RGBW, RGBW</p>
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## References

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

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