

**BEGA****99 445**

Underwater floodlight

IP 68

Project · Reference number

Date

**Product data sheet****Application**

Water pressure tight LED underwater floodlight for the illumination of ponds, water pools and water features up to a depth of 20 metres. The floodlight must only be operated under water and must be protected against freezing in.

To avoid damages on the surface of the floodlight, the water must have a neutral pH-value and should be free from metal attacking ingredients.

**Product description**

Luminaire made stainless steel  
Steel grade no. 1.4301 – electro polished  
Clear safety glass  
Silicone gasket  
Reflector made of pure anodised aluminium  
Swivel range 90°  
Mounting bracket with  
2 holes  $\varnothing$  7 mm · 45 mm spacing  
water-resistant connecting cable  
H07RN8-F 3 G 1 □  
Cable length 4 m  
LED power supply unit  
220-240 V ~ 50-60 Hz  
Safety class I  
Protection class IP 68 20 m  
Dust-tight and water pressure tight  
Maximum submersion depth 20 m  
CE – Conformity mark  
Weight: 4.2 kg

**Inrush current**

Inrush current: 16 A / 208  $\mu$ s  
Maximum number of luminaires of this type per miniature circuit breaker:  
B 10A: 25 luminaires  
B 16A: 40 luminaires  
C 10A: 42 luminaires  
C 16A: 68 luminaires

**Lamp**

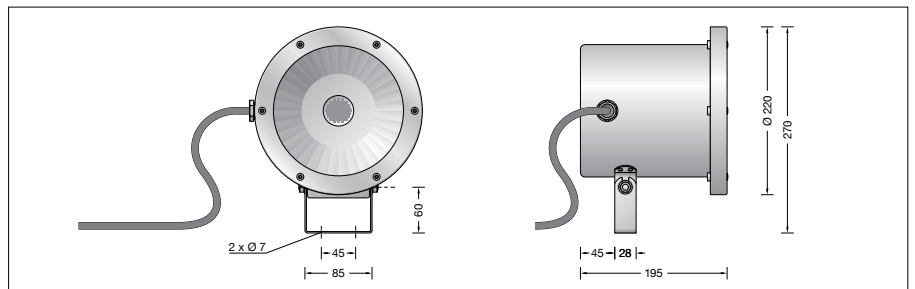
|                             |                     |
|-----------------------------|---------------------|
| Module connected wattage    | 15.7 W              |
| Luminaire connected wattage | 21 W                |
| Rated temperature           | $t_a = 25$ °C       |
| Ambient temperature         | $t_{a\max} = 35$ °C |

On request we can offer you modifications for environments with higher temperatures as a customized product.

**99 445 K3**

|                                |              |
|--------------------------------|--------------|
| Module designation             | LED-0639/830 |
| Colour temperature             | 3000 K       |
| Colour rendering index         | CRI > 80     |
| Module luminous flux           | 2855 lm      |
| Luminaire luminous flux*       | 2014 lm      |
| Luminaire luminous efficiency* | 95,9 lm/W    |

\* preliminary data

**Service life of the LED**

Ambient temperature  $t_a = 25$  °C  
– at > 500,000h: L70B50

max. ambient temperature  $t_a = 35$  °C  
– at 318,000h: L70B50

**Light technique**

Symmetrical wide beam light distribution  
Half beam angle 54°  
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. The values shown in the floodlight diagram are only valid for medium air. In clear water at a distance of 10 m, the lighting intensity is about half that of a free burning floodlight.

**Light distribution**