

**BEGA****99 415**

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**

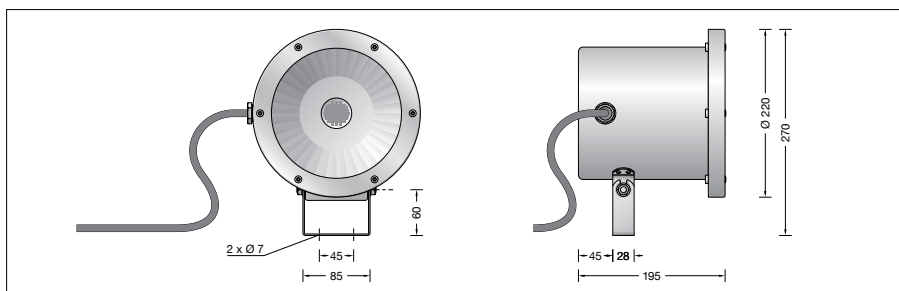
Luminaire made stainless steel  
Steel grade no. 1.4301 – electro polished  
Clear safety glass  
Silicone gasket  
Reflector made of pure anodised aluminium  
Swivel range 90°  
Mounting bracket with  
2 holes  $\varnothing$  7 mm · 45 mm spacing  
water-resistant connecting cable  
H07RN8-F 3 G 1 □  
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: 4.15 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

**Light technique**

Floodlight with narrow beam light distribution.  
Half beam angle 16°  
Luminaire data for the light planning program DIALux for outdoor lighting, street lighting and indoor lighting, as well as luminaire data in EULUMDAT and IES format are available on the BEGA website at [www.bega.com](http://www.bega.com).  
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.

**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

**Lifetime of the LED**

Ambient temperature $t_a = 25$ °C	– at > 500,000h: L70B50
max. ambient temperature $t_a = 35$ °C	– at 318,000h: L70B50

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

**99 415 K3**

Module designation	LED-0402/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	2855 lm
Luminaire luminous flux*	1896 lm
Luminaire luminous efficiency*	90,3 lm/W

\* preliminary data

**Light distribution**