

**BEGA****99 117**

Underwater floodlight

IP 68

Project · Reference number

Date

## Product data sheet

**Application**

Water pressure tight underwater floodlight with very shallow construction form for the illumination of ponds, water pools and water features up to a depth of 20 m. 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 – electropolished  
Clear safety glass  
Reflector made of pure anodised aluminium  
Swivel range 90°  
Mounting bracket with  
2 holes  $\varnothing$  7 mm · 45 mm spacing  
water-resistant connecting cable  
05RN8-F 2 x 1 □  
Cable length 4 m  
Safety class III ⚡  
Protection class IP 68 20 m  
Dust-tight and water pressure tight  
Maximum submersion depth 20 m  
Impact strength IK08  
Protection against mechanical impacts < 5 joule  
CE – Conformity mark  
Weight: 2.2 kg  
This product contains light sources of energy efficiency class(es) C

**Transformer**

The connection must only be made to a safety transformer according to EN 61558/VDE 0570 part 1 + part 2-6 and VDE 0100 part 410. The transformer must be approved for this type of installation.

**Lamp**

Module connected wattage	15.5 W
Luminaire connected wattage	18.3 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a\text{max}} = 65^\circ\text{C}$
Voltage	24 V = DC

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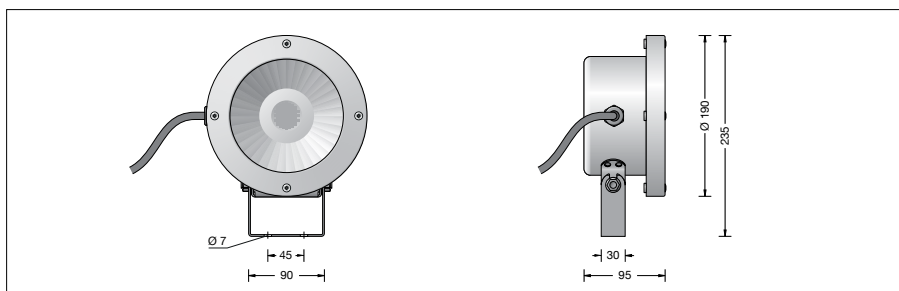
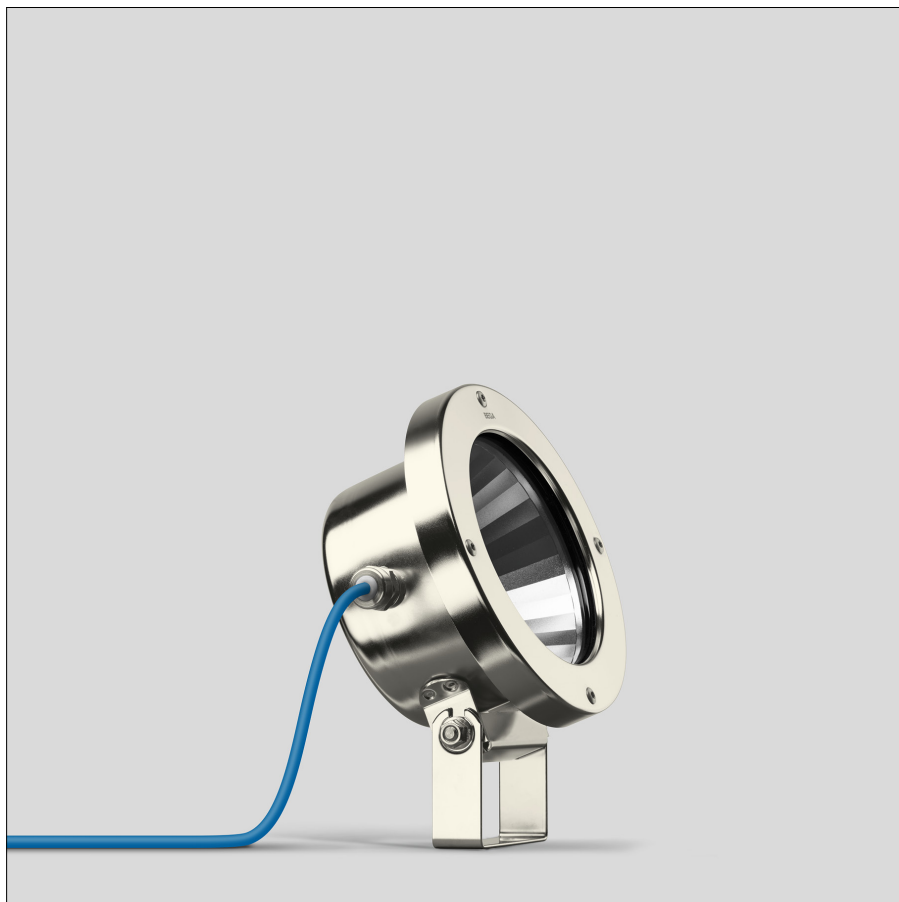
Module designation	LED-1195/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	3010 lm
Luminaire luminous flux*	1837 lm
Luminaire luminous efficiency*	100,4 lm/W

\* preliminary data

**Service life · Ambient temperature**

Rated temperature  $t_a = 25^\circ\text{C}$   
LED module:  
    > 200,000 h (L 80 B 50)  
    100,000 h (L 90 B 50)

Ambient temperature max.  $t_a = 65^\circ\text{C}$  (100 %)  
LED module:  
    101,000 h (L 80 B 50)

**Light technique**

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 you will find on the BEGA web page [www.bega.com](http://www.bega.com). The details apply to free burning floodlights. The lighting intensity is depending on the submerged depth of the floodlight and on the purity of the water.

**Accessories**

BEGA Safety transformers according to EN 61558-2-6/VDE 0570, part 2-6  
**70 565** Power supply unit for 20-35 W  
**70 566** Power supply unit for 30-50 W  
**70 567** Power supply unit for 40-75 W  
**70 169** Power supply unit for 70-150 W

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

**Light distribution**