

BEGA**99 115**

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
Silicone gasket
Reflector made of pure anodised aluminium
Swivel range 90°
Fixing bracket with 1 hole \varnothing 7 mm
water-resistant connecting cable
05RN8-F 2 x 1 m
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: 1.1 kg
This product contains light sources of energy efficiency class(es) D

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. 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.

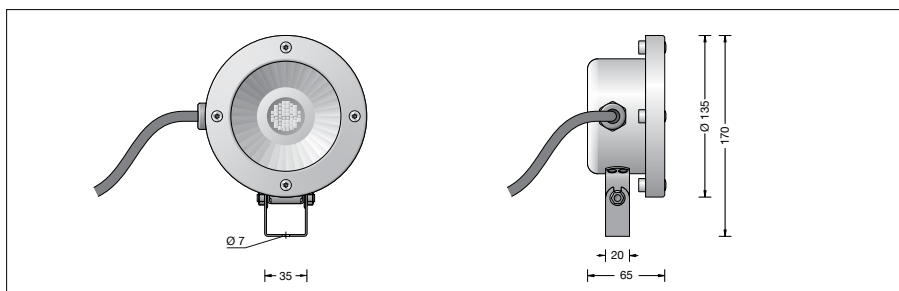
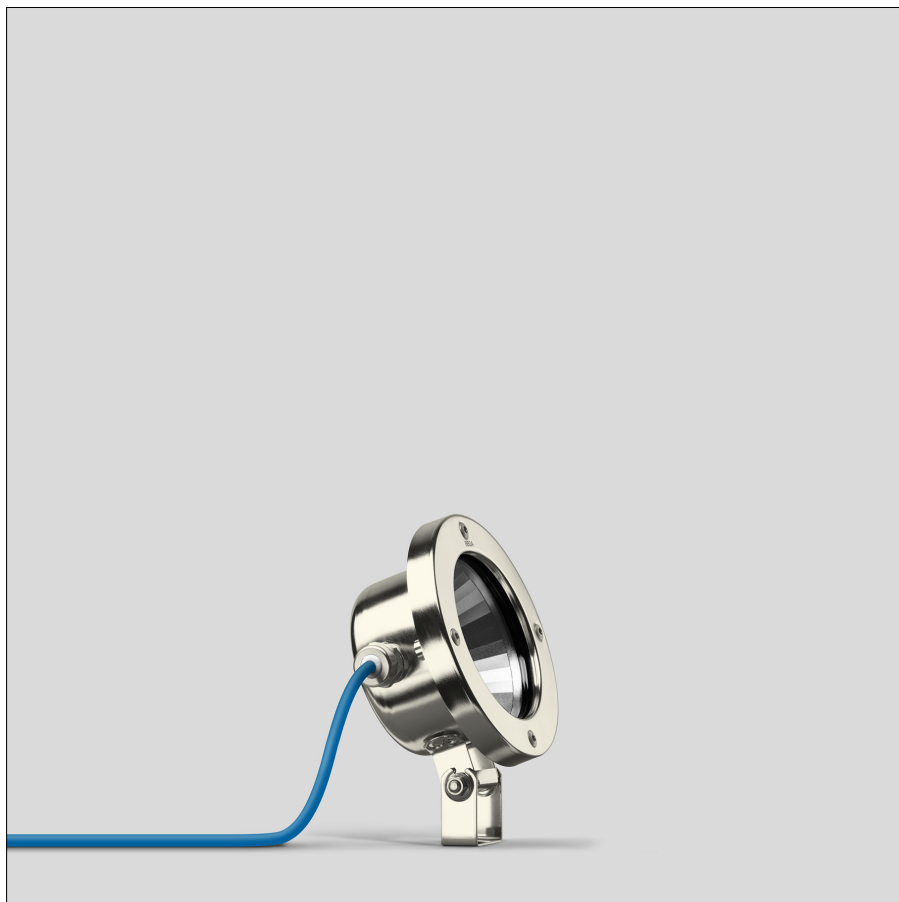
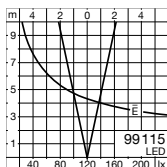
Lamp

Module connected wattage	11.6 W
Luminaire connected wattage	13.9 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a, \max} = 65^\circ\text{C}$
Voltage	24 V = DC

99 115 K3

Module designation	LED-1194/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	2250 lm
Luminaire luminous flux*	1427 lm
Luminaire luminous efficiency*	102,7 lm/W

* preliminary data

Light distribution**Service life · Ambient temperature**

Rated temperature $t_a = 25^\circ\text{C}$
LED module:
> 200,000 h (L80B50)
100,000 h (L90B50)

Ambient temperature max. $t_a = 65^\circ\text{C}$ (100 %)
LED module:
> 200,000 h (L80B50)
100,000 h (L90B50)

Important:

The luminaire must only be operated with a SELV operating device that meets the requirements of EN 61347-2-13. The maximum open-circuit voltage of 30 V DC must be SELV or SELV-equivalent. Alternatively, the connection may be made to safety transformers in compliance with EN 61558/VDE 0570 Parts 2-6 with an open-circuit voltage of < 30 V DC. The transformer must be approved for this type of installation.

Accessories

BEGA Safety transformers according to EN 61558-2-6/VDE 0570, part 2-6

70 465	Power supply unit for 10 - 25 W
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.