

BEGA**84 399**

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 \square
Cable length 4 m
Safety class III \diamond
Protection class IP 68 20 m
Dust-tight and water pressure tight
Maximum submersion depth 20 m
Impact strength IK09
Protection against mechanical
impacts < 10 joule
CE – Conformity mark
Weight: 2.2 kg
This product contains light sources of energy
efficiency class(es) D

Lamp

Module connected wattage	49.7 W
Luminaire connected wattage	62 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a\text{ max}} = 60^\circ\text{C}$
Voltage	24 V = DC

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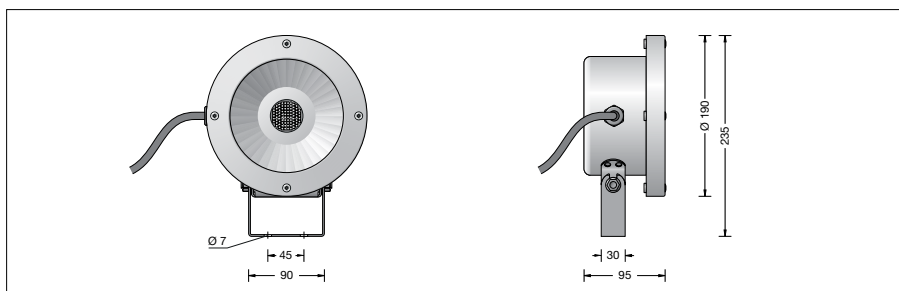
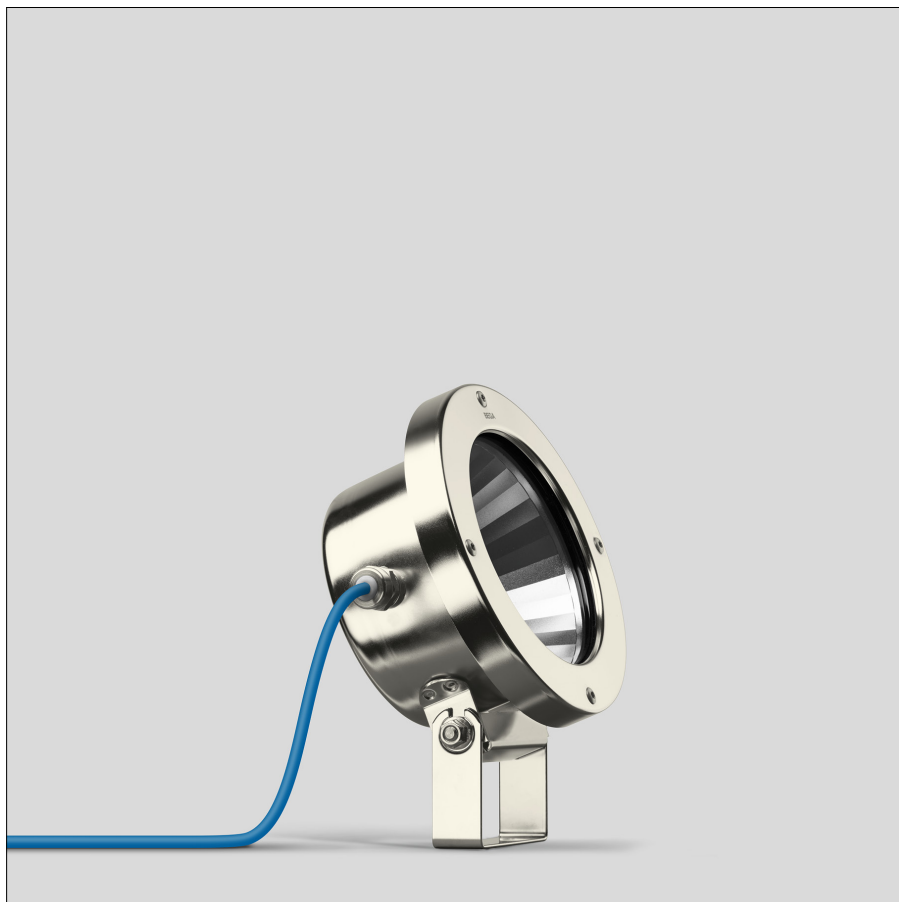
Module designation	LED-1199/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	8200 lm
Luminaire luminous flux*	4063 lm
Luminaire luminous efficiency*	65,5 lm/W

* preliminary data

Service life · Ambient temperature

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

Ambient temperature max. $t_a = 60^\circ\text{C}$ (100 %)	
LED psu:	50,000 h
LED module:	44,000 h (L 80 B 50)
	68,000 h (L 70 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.
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
70 567 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