

BEGA**84 860**

Underwater floodlight

IP 68

Project · Reference number

Date

Product data sheet

Application

Water pressure-tight underwater floodlight for the illumination of **non-accessible** ponds, pools and water features with a depth up to 20 metres.

Product description

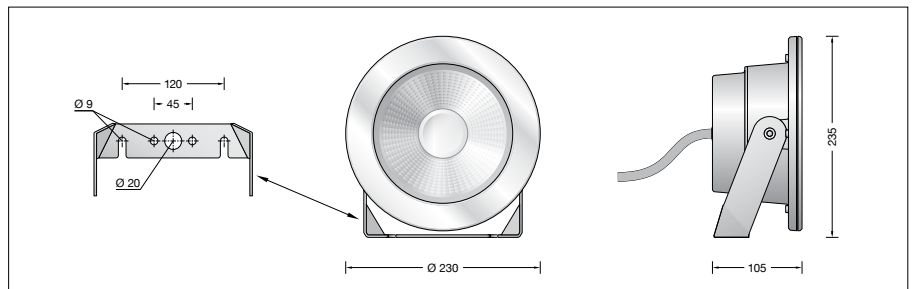
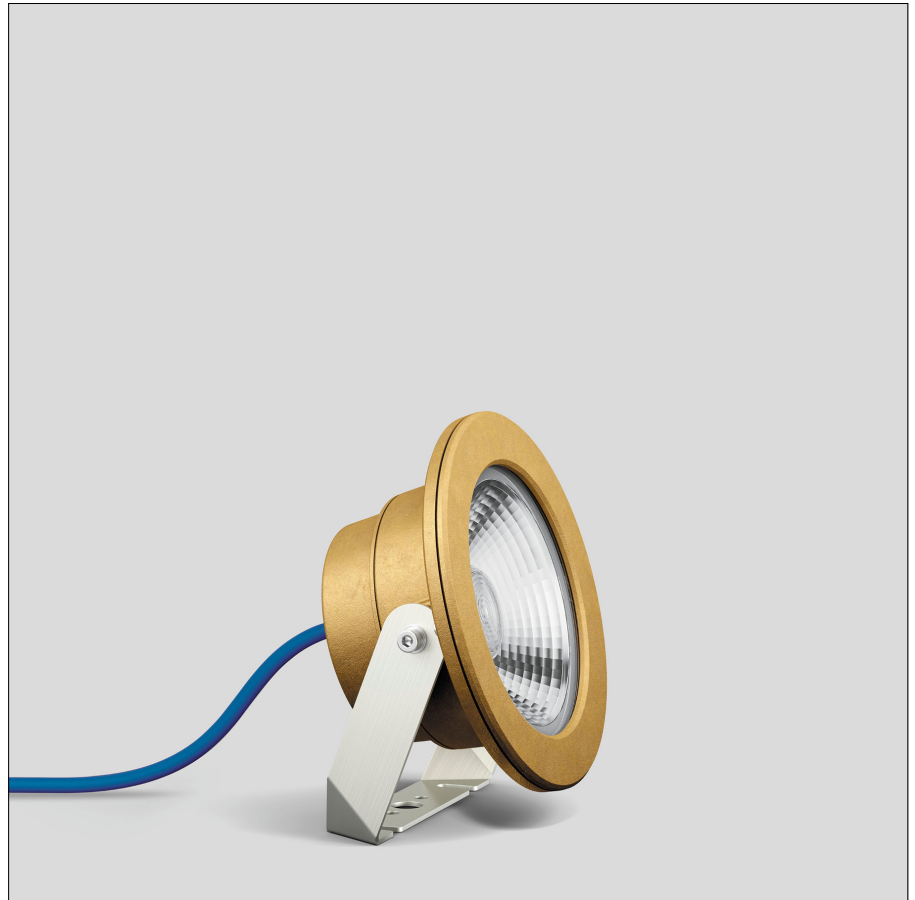
Luminaire housing made of dezincification-resistant cast brass
 Stainless steel mounting bracket
 Steel grade no. 1.4401, electropolished
 Clear safety glass
 Optical silicone lens · BEGA Hybrid Optics®
 Reflector surface made of pure aluminium
 Swivel range 120°
 2 elongated fixing holes
 Width 9mm · 120mm spacing
 water-resistant connecting cable
 07RN8-F 5G1[□]
 Cable length 7 m
 BEGA Ultimate Driver®
 LED power supply unit
 220-240 V ~ 0/50-60 Hz
 DC 176-264 V
 DALI-controllable
 Number of DALI addresses: 1
 Basic insulation is provided between the mains and control cables
 BEGA Thermal Control®
 Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire
 Safety class I
 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: 7.0 kg
 This product contains light sources of energy efficiency class(es) D

Light technique

Narrow beam light distribution.
 Half beam angle 24°
 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.
 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.

BEGA Hybrid Optics®

BEGA Hybrid Optics® offers complete lighting control thanks to optimized refraction and reflection. Precisely calculated reflectors with a pure aluminium surface and lenses, for example made of ultra-clear silicone or glass, capture almost every single light beam emitted by the LED modules. Maximum light efficiency is achieved via the synergy between lens and reflector technology.

**Lamp**

Module connected wattage	41.5 W
Luminaire connected wattage	45 W
Rated temperature	$t_a = 25^\circ\text{C}$
Ambient temperature	$t_{a\text{ max}} = 35^\circ\text{C}$

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

84 860 K3

Module designation	LED-0780/830
Colour temperature	3000 K
Colour rendering index	CRI > 80
Module luminous flux	6905 lm
Luminaire luminous flux*	4920 lm
Luminaire luminous efficiency*	109,3 lm/W

* preliminary data

Service life · Ambient temperature

Rated temperature $t_a = 25^\circ\text{C}$	
LED psu:	> 50,000 h
LED module:	65,000 h (L 80 B 50)
	100,000 h (L 70 B 50)

Ambient temperature max. $t_a = 35^\circ\text{C}$ (100 %)	
LED psu:	50,000 h
LED module:	48,000 h (L 80 B 50)
	80,000 h (L 70 B 50)

Accessories

71 265 Mounting plate
 Mounting plate for the positioning of an underwater floodlight if the floodlight will not be bolted to the on-site substrate.

See the separate instructions for use.