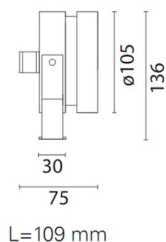


Last information update: May 2018

**Floodlight for immersion - Floodlight 6 RGB LEDs - 350mA DC****Product code**

BH91

Technical description

RGB floodlight for permanent immersion, IP68 5m. Adjustable about the vertical axis and relative to the horizontal plane. The luminaire is made strictly of AISI 316L stainless steel to guarantee maximum lasting reliability in pools and fountains (fresh water). Clear, transparent 6mm thick tempered closing glass. All screws used are made of stainless steel and the seals are silicone. The product is supplied with a 4m long 2x0,5NS20N power cable. The luminaire technical characteristics conform to EN60598-2-18 standards and particular requirements. IP68 - IK08. The luminaire is complete with 6 LEDs (6x3,5W). Optical assembly opening is not required for its installation. Insulation class III. The luminaire must be powered by a 700mA DC external driver.

Dimension (mm)

136x109

Colour

Steel (13)

Mounting

ground surface

Notes

Permanent immersion

Complies with EN60598-1 and pertinent regulations

**Product configuration: BH91****Product characteristics**

Total lighting output [Lm]: 203
 Total power [W]: 12
 Luminous efficacy [Lm/W]: 16.9
 Ambient temperature range: from -20°C to +35°C.

Total luminous flux at or above an angle of 90° [Lm]: 0
 Emergency luminous flux [Lm]: /
 Voltage [V]: -
 Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 70
 Lamp code: LED
 ZVEI Code: LED
 Nominal power [W]: 8.6
 Nominal luminous [Lm]: 290
 Lamp maximum intensity [cd]: /
 Beam angle [°]: 24°

Number of lamps for optical assembly: 1
 Socket: /
 Ballast losses [W]: 3.4
 Colour temperature [K]: /
 CRI: /
 Wavelength [Nm]: /
 MacAdam Step: /

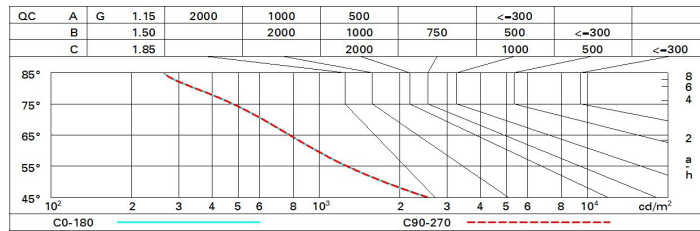
Polar

Imax=706 cd	CIE nL 0.70 94-99-100-100-70 UGR <10-<10 DIN A.61 UTE 0.70A+0.00T F*1=940 F*1+F*2=987 F*1+F*2+F*3=998 CIBSE LG3 L<1500 cd/m ² at 65° UGR<10 L<1500 cd/mq @65°	Lux			
		h	d	Em	Emax
90°		1	0.4	534	706
750		2	0.9	134	177
		3	1.3	59	78
α=24°		4	1.7	33	44

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	61	58	55	53	57	55	54	52	74
1.0	64	61	59	57	60	58	58	55	79
1.5	68	66	64	62	65	63	62	60	86
2.0	70	69	67	66	68	66	66	63	91
2.5	72	70	69	68	69	68	68	66	94
3.0	73	72	71	70	71	70	69	67	96
4.0	74	73	72	72	72	71	70	68	98
5.0	74	74	73	73	73	72	71	69	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 290 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceill/cav	walls	work pl.	Room dim	x	y						
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30	
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30	
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
2H	2H	8.5	10.4	8.9	10.7	11.0	8.5	10.4	8.9	10.7	11.0
	3H	8.7	10.1	9.1	10.5	10.8	8.6	10.0	8.9	10.3	10.7
	4H	8.7	10.0	9.1	10.3	10.7	8.5	9.8	8.9	10.1	10.5
	6H	8.7	9.9	9.1	10.2	10.6	8.5	9.6	8.9	10.0	10.3
	8H	8.7	9.8	9.1	10.2	10.5	8.5	9.6	8.9	9.9	10.3
	12H	8.7	9.8	9.1	10.1	10.5	8.4	9.5	8.8	9.9	10.2
4H	2H	8.5	9.8	8.9	10.1	10.5	8.7	10.0	9.1	10.3	10.7
	3H	8.8	9.9	9.2	10.2	10.6	8.8	9.9	9.2	10.3	10.7
	4H	8.8	9.9	9.2	10.2	10.7	8.8	9.9	9.2	10.2	10.7
	6H	8.6	10.1	9.1	10.6	11.0	8.6	10.1	9.1	10.5	11.0
	8H	8.5	10.2	9.0	10.6	11.1	8.5	10.1	9.0	10.6	11.1
	12H	8.5	10.2	9.0	10.7	11.2	8.4	10.1	8.9	10.6	11.1
8H	4H	8.5	10.1	9.0	10.6	11.1	8.5	10.2	9.0	10.6	11.1
	6H	8.5	10.1	9.0	10.6	11.1	8.5	10.1	9.0	10.6	11.1
	8H	8.5	10.0	9.0	10.5	11.0	8.5	10.0	9.0	10.5	11.0
	12H	8.7	9.6	9.2	10.1	10.7	8.7	9.6	9.2	10.1	10.7
12H	4H	8.4	10.1	8.9	10.6	11.1	8.5	10.2	9.0	10.7	11.2
	6H	8.5	9.9	9.0	10.4	11.0	8.5	10.0	9.0	10.4	11.0
	8H	8.7	9.6	9.2	10.1	10.7	8.7	9.6	9.2	10.1	10.7
Variations with the observer position at spacing:											
S =	1.0H	2.5 / -2.3					2.5 / -2.3				
	1.5H	4.7 / -3.4					4.7 / -3.4				
	2.0H	6.5 / -4.1					6.5 / -4.1				