WaterApp

Design iGuzzini   **iGuzzini**
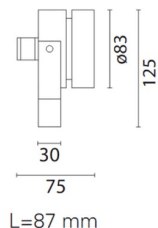
Last information update: May 2018

Floodlight 3 RGB LEDs - 350mA DC

Product code
BH86

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 6x0,5NS20N power cable. The luminaire technical characteristics conform to EN60598-2-18 standards and particular requirements. IP68 - IK08. The luminaire is complete with 3 LEDs (3x3,5W). Optical assembly opening is not required for its installation. Insulation class III. The luminaire must be powered by a 350mA DC external driver.

Dimension (mm)
125x87

Ø83
125
30
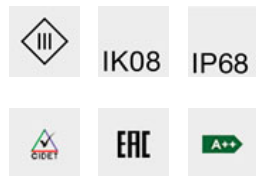75
L=87 mm

Colour
Steel (13)

Mounting
ground surface

Notes
Permanent immersion

Complies with EN60598-1 and pertinent regulations

III   IK08   IP68

CIDET   EHC   A++

Product configuration: BH86

Product characteristics

Total lighting output [Lm]: 98	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 8	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 12.2	Voltage [V]: -
Ambient temperature range: from -20°C to +35°C.	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 70	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.7
Nominal power [W]: 4.3	Colour temperature [K]: /
Nominal luminous [Lm]: 140	CRI: /
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 34°	MacAdam Step: /

Polar

Imax=224 cd

α=34°

h	d	Em	Emax
1	0.6	171	224
2	1.2	43	56
3	1.8	19	25
4	2.4	11	14

Isolux

Lux
h=5 m.
α=0°

LED
/
8 W

6 2 0.7 0.2 0.1 0.0 0.0 0.0 0.0

-1 0 1 2 3 4 5 6 7 8 9 m
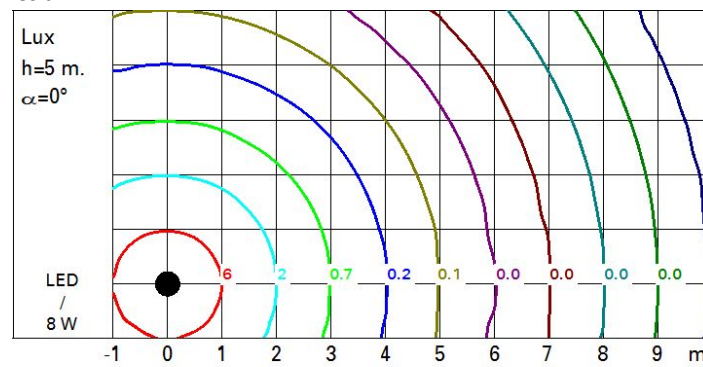
UGR diagram

Corrected UGR values (at 140 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	8.7	9.4	9.0	9.6	9.8	8.7	9.4	9.0	9.6	9.8
	3H	8.7	9.3	9.0	9.5	9.8	8.6	9.2	8.9	9.5	9.8
	4H	8.6	9.2	9.0	9.5	9.8	8.6	9.1	8.9	9.4	9.7
	6H	8.6	9.1	8.9	9.4	9.7	8.5	9.0	8.9	9.3	9.7
	8H	8.5	9.0	8.9	9.4	9.7	8.5	9.0	8.8	9.3	9.6
	12H	8.5	9.0	8.9	9.3	9.7	8.4	8.9	8.8	9.2	9.6
4H	2H	8.6	9.1	8.9	9.4	9.7	8.6	9.2	9.0	9.5	9.8
	3H	8.6	9.0	8.9	9.4	9.7	8.6	9.1	9.0	9.4	9.7
	4H	8.5	8.9	8.9	9.3	9.7	8.5	8.9	8.9	9.3	9.7
	6H	8.5	8.9	8.9	9.3	9.7	8.5	8.8	8.9	9.2	9.7
	8H	8.5	8.8	8.9	9.2	9.6	8.4	8.8	8.9	9.2	9.6
	12H	8.4	8.7	8.9	9.2	9.6	8.4	8.7	8.8	9.1	9.6
8H	4H	8.4	8.8	8.9	9.2	9.6	8.5	8.8	8.9	9.2	9.6
	6H	8.4	8.7	8.9	9.1	9.6	8.4	8.7	8.9	9.1	9.6
	8H	8.4	8.6	8.9	9.1	9.6	8.4	8.6	8.9	9.1	9.6
	12H	8.3	8.5	8.8	9.0	9.6	8.3	8.5	8.8	9.0	9.5
12H	4H	8.4	8.7	8.8	9.1	9.6	8.4	8.7	8.9	9.2	9.6
	6H	8.4	8.6	8.8	9.1	9.6	8.4	8.6	8.9	9.1	9.6
	8H	8.3	8.5	8.8	9.0	9.5	8.3	8.5	8.8	9.0	9.6

Variations with the observer position at spacing:

S =	1.0H	3.2 / -4.4	3.2 / -4.4
	1.5H	5.7 / -6.3	5.7 / -6.3
	2.0H	7.6 / -7.1	7.6 / -7.1