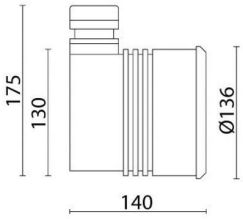
WaterApp

Design iGuzzini **iGuzzini**

Last information update: May 2018



Recessed luminaires for swimming pools - Recessed luminaire 3 RGB LEDs

Product code
BI03

Technical description
RGB recessed luminaire for permanent immersion, IP68 10m. 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 3m 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)
140x136

Colour
Steel (13)

Mounting
wall recessed|ground recessed

Notes
Permanent immersion

Complies with EN60598-1 and pertinent regulations

IK08 IP68

Product configuration: BI03

Product characteristics

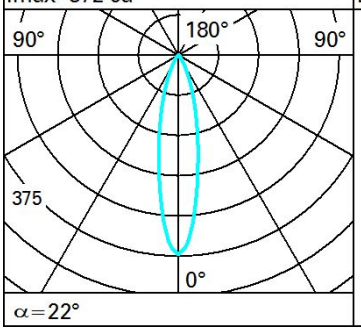
Total lighting output [Lm]: 98
Total power [W]: 8
Luminous efficacy [Lm/W]: 12.2
Ambient temperature range: from -20°C to +35°C.
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 70
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 4.5
Nominal luminous [Lm]: 140
Lamp maximum intensity [cd]: /
Beam angle [°]: 22°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.5
Colour temperature [K]: /
CRI: /
Wavelength [Nm]: /
MacAdam Step: /

Polar

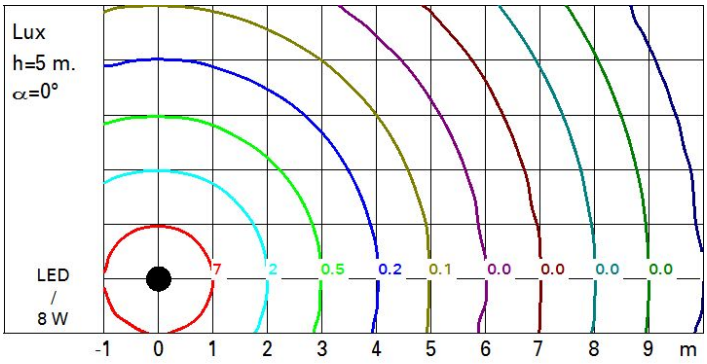
Imax=372 cd



Lux

h	d	Em	Emax
1	0.4	286	372
2	0.8	71	93
3	1.2	32	41
4	1.6	18	23

Isolux



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 crosswise					viewed endwise		
x	y										
2H	2H	4.4	6.2	4.7	6.5	6.9	4.4	6.2	4.7	6.5	6.9
	3H	4.5	5.9	4.8	6.2	6.5	4.4	5.8	4.7	6.1	6.5
	4H	4.5	5.7	4.8	6.0	6.4	4.3	5.6	4.7	5.9	6.3
	6H	4.4	5.5	4.8	5.9	6.2	4.3	5.4	4.7	5.7	6.1
	8H	4.4	5.5	4.8	5.8	6.2	4.2	5.3	4.6	5.7	6.0
	12H	4.4	5.4	4.8	5.8	6.2	4.2	5.3	4.6	5.6	6.0
4H	2H	4.3	5.6	4.7	5.9	6.3	4.5	5.7	4.8	6.0	6.4
	3H	4.5	5.5	4.9	5.9	6.3	4.5	5.6	4.9	5.9	6.3
	4H	4.5	5.5	4.9	5.9	6.3	4.5	5.5	4.9	5.9	6.3
	6H	4.3	5.8	4.7	6.2	6.7	4.2	5.7	4.7	6.2	6.6
	8H	4.2	5.8	4.7	6.3	6.8	4.1	5.8	4.6	6.2	6.7
	12H	4.1	5.8	4.6	6.3	6.8	4.0	5.8	4.5	6.2	6.8
8H	4H	4.1	5.8	4.6	6.2	6.7	4.2	5.8	4.7	6.3	6.8
	6H	4.1	5.7	4.6	6.2	6.7	4.1	5.7	4.6	6.2	6.7
	8H	4.1	5.6	4.6	6.1	6.6	4.1	5.6	4.6	6.1	6.6
	12H	4.3	5.2	4.8	5.7	6.3	4.3	5.2	4.8	5.7	6.3
12H	4H	4.0	5.8	4.5	6.2	6.8	4.1	5.8	4.6	6.3	6.8
	6H	4.1	5.5	4.6	6.0	6.6	4.1	5.6	4.6	6.1	6.6
	8H	4.3	5.2	4.8	5.7	6.3	4.3	5.2	4.8	5.7	6.3

Variations with the observer position at spacing:

S =			
	1.0H	2.7 / -2.7	2.7 / -2.7
	1.5H	5.0 / -4.0	5.0 / -4.0
	2.0H	6.9 / -4.8	6.9 / -4.8