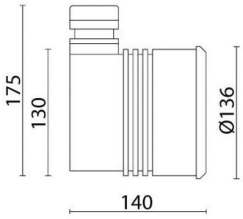
WaterApp

Design iGuzzini **iGuzzini**

Last information update: May 2018



Recessed luminaires for fountains - Recessed luminaire 3 LEDs - 350mA DC

Product code
BI01

Technical description
Monochrome 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 2x0,5NS20N power cable. The luminaire technical characteristics conform to EN60598-2-18 standards and particular requirements. IP68 - IK08. The luminaire is complete with 3 Cool White LEDs (3x1,2W). 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

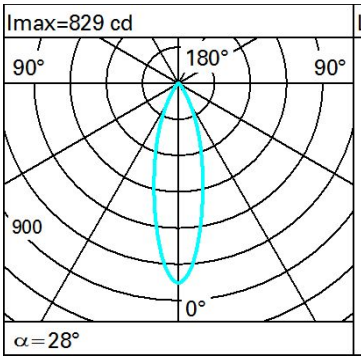
Complies with EN60598-1 and pertinent regulations

Product configuration: BI01

Product characteristics
Total lighting output [Lm]: 304
Total power [W]: 3.1
Luminous efficacy [Lm/W]: 98.1
Life Time: 100,000h - L80 - B10 (Ta 25°C)
Number of optical assemblies: 1
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Ambient temperature range: from -20°C to +35°C.

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 76
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 3.1
Nominal luminous [Lm]: 400
Lamp maximum intensity [cd]: /
Beam angle [°]: 28°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 0
Colour temperature [K]: 6500
CRI: 70
Wavelength [Nm]: /
MacAdam Step: /

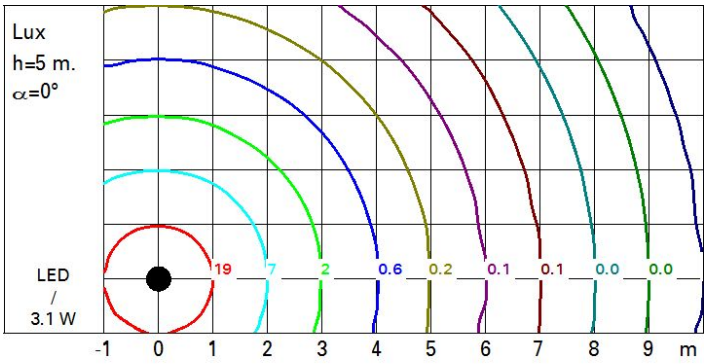
Polar



Lux

h	d	Em	Emax
1	0.5	629	829
2	1	157	207
3	1.5	70	92
4	2	39	52

Isolux



UGR diagram

Corrected UGR values (at 400 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	10.1	10.8	10.4	11.0	11.3	10.1	10.8	10.4	11.0	11.3
	3H	10.4	10.9	10.7	11.2	11.5	10.2	10.8	10.5	11.1	11.3
	4H	10.4	11.0	10.7	11.3	11.6	10.2	10.7	10.5	11.0	11.3
	6H	10.4	10.9	10.8	11.2	11.6	10.1	10.6	10.5	10.9	11.3
	8H	10.4	10.9	10.8	11.2	11.6	10.1	10.6	10.5	10.9	11.3
	12H	10.4	10.8	10.8	11.2	11.5	10.1	10.5	10.4	10.9	11.2
4H	2H	10.2	10.7	10.5	11.0	11.3	10.4	11.0	10.7	11.3	11.6
	3H	10.5	10.9	10.9	11.3	11.6	10.5	11.0	10.9	11.3	11.7
	4H	10.6	11.0	11.0	11.3	11.7	10.6	11.0	11.0	11.3	11.7
	6H	10.6	11.0	11.0	11.4	11.8	10.6	10.9	11.0	11.3	11.7
	8H	10.6	10.9	11.0	11.3	11.8	10.5	10.9	11.0	11.3	11.7
	12H	10.6	10.9	11.0	11.3	11.8	10.5	10.8	11.0	11.2	11.7
8H	4H	10.5	10.9	11.0	11.3	11.7	10.6	10.9	11.0	11.3	11.8
	6H	10.6	10.9	11.1	11.3	11.8	10.6	10.9	11.1	11.3	11.8
	8H	10.6	10.9	11.1	11.3	11.8	10.6	10.9	11.1	11.3	11.8
	12H	10.6	10.8	11.1	11.3	11.8	10.6	10.8	11.1	11.3	11.8
12H	4H	10.5	10.8	11.0	11.2	11.7	10.6	10.9	11.0	11.3	11.8
	6H	10.6	10.8	11.1	11.3	11.8	10.6	10.8	11.1	11.3	11.8
	8H	10.6	10.8	11.1	11.3	11.8	10.6	10.8	11.1	11.3	11.8

Variations with the observer position at spacing:

S =			
	1.0H	2.5 / -2.1	2.5 / -2.1
	1.5H	4.7 / -3.2	4.7 / -3.2
	2.0H	6.5 / -3.8	6.5 / -3.8