Design iGuzzini

iGuzzini

Last information update: May 2018



# Ø136 130 140

## Recessed luminaires for swimming pools - Recessed luminaire 3 LEDs - 350mA DC

#### Product code

BI02

#### 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  $cable. \ The \ luminaire \ technical \ characteristics \ conform \ to \ EN60598-2-18 \ standards \ and \ particular \ requirements. \ IP68-IK08. \ The \ luminaire \ technical \ characteristics \ conform \ to \ EN60598-2-18 \ standards \ and \ particular \ requirements. \ IP68-IK08. \ The \ luminaire \ technical \ characteristics \ conform \ to \ EN60598-2-18 \ standards \ and \ particular \ requirements.$ 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: BI02

#### **Product characteristics**

Total lighting output [Lm]: 291 Total power [W]: 3.1

Luminous efficacy [Lm/W]: 93.9 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.) [%]: 73

Lamp code: LED ZVEI Code: LED Nominal power [W]: 3.1 Nominal luminous [Lm]: 400

Lamp maximum intensity [cd]: / Beam angle [°]: 38°

Number of lamps for optical assembly: 1

Socket: /

Ballast losses [W]: 0 Colour temperature [K]: 6500 CRI: 70

Wavelength [Nm]: / MacAdam Step: /

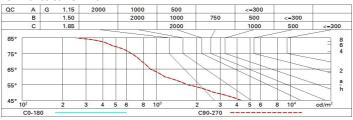
## Pola

lmax=568 cd	CIE	Lux			
90° 180° 90°	nL 0.73 92-99-100-100-73	h	d	Em	Emax
	UGR 11.7-11.6 <b>DIN</b> A.61	1	0.7	429	568
	UTE 0.73A+0.00T F"1=915	2	1.4	107	142
600	F"1+F"2=985 F"1+F"2+F"3=998	3	2.1	48	63
α=38°	LG3 L<1500 cd/m² at 65° UGR<16   L<1500 cd/mq @	<sub>65°</sub> 4	2.8	27	35

## Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	59	56	54	58	56	55	52	72
1.0	66	63	60	58	62	59	59	56	77
1.5	70	68	65	64	67	65	64	62	85
2.0	73	71	69	68	70	68	68	65	90
2.5	74	73	72	70	72	71	70	68	93
3.0	75	74	73	72	73	72	71	69	95
4.0	77	76	75	74	74	74	73	71	97
5.0	77	76	76	75	75	75	73	71	98

# Luminance curve limit



## UGR diagram

Rifled	ct.:												
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30		
		0.50 0.20	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30		
												877EEE	
		x	У	crosswise						endwise			
2H	2H	11.6	12.3	11.9	12.6	12.8	11.6	12.3	11.9	12.6	12.8		
	ЗН	11.7	12.3	12.0	12.6	12.9	11.6	12.2	11.9	12.5	12.8		
	4H	11.7	12.3	12.0	12.6	12.9	11.6	12.2	11.9	12.5	12.8		
	бН	11.7	12.2	12.0	12.5	12.9	11.5	12.0	11.9	12.4	12.7		
	HS	11.7	12.2	12.0	12.5	12.8	11.5	12.0	11.8	12.3	12.7		
	12H	11.6	12.1	12.0	12.5	12.8	11.4	11.9	11.8	12.3	12.6		
4H	2H	11.6	12.2	11.9	12.5	12.8	11.7	12.3	12.0	12.6	12.9		
	ЗН	11.7	12.2	12.1	12.5	12.9	11.7	12.2	12.1	12.6	12.9		
	4H	11.7	12.1	12.1	12.5	12.9	11.7	12.1	12.1	12.5	12.9		
	6H	11.7	12.1	12.1	12.5	12.9	11.7	12.1	12.1	12.5	12.9		
	HS	11.7	12.0	12.1	12.5	12.9	11.6	12.0	12.1	12.4	12.8		
	12H	11.7	12.0	12.1	12.4	12.9	11.6	11.9	12.1	12.4	12.8		
вн	4H	11.6	12.0	12.1	12.4	12.8	11.7	12.0	12.1	12.5	12.9		
	6H	11.7	12.0	12.1	12.4	12.9	11.7	12.0	12.2	12.4	12.9		
	HS	11.7	11.9	12.1	12.4	12.9	11.7	11.9	12.1	12.4	12.9		
	12H	11.6	11.8	12.1	12.3	12.9	11.6	11.8	12.1	12.3	12.8		
12H	4H	11.6	11.9	12.1	12.4	12.8	11.7	12.0	12.1	12.4	12.9		
	6H	11.6	11.9	12.1	12.3	12.8	11.6	11.9	12.1	12.4	12.9		
	H8	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.9		
Varia	tions wi	th the ob	serverp	osition	at spacin	ıg:							
5 =	1.0H	2.7 / -3.2					2.7 / -3.2						
	1.5H		5	.0 / -4	6	5.0 / -4.6							
	2.0H		6	.8 / -5.	2	6.8 / -5.2							