Product code BI02

Technical description

Dimension (mm) 140x136

Design iGuzzini

iGuzzini

Last information update: May 2018

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

class III. The luminaire must be powered by a 350mA DC external driver

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



175 Ø136 130 140

Mounting wall recessed|ground recessed

Notes

Colour

Steel (13)

Permanent immersion



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

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°

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.

Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 0 Colour temperature [K]: 6500 CRI: 70 Wavelength [Nm]: / MacAdam Step: /

Polar CIE Imax=568 cd Lux nL 0.73 180 d Emax 909 90 92-99-100-100-73 h Em UGR 11.7-11.6 DIN 1 0.7 429 568 A.61 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 CIBSE 3 48 63 2.1 I G3 L<1500 cd/m² at 65° 0° UGR<16 | L<1500 cd/mq @65° 4 2.8 27 35 α=38°

Complies with EN60598-1 and pertinent regulations

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

QC	Α	G	1.15	200	00	3	1000		500			<-300			
	в		1.50				2000		1000	750	Q	500	<-	300	
	C		1.85						2000			1000	5	00	<=300
85°										ħН	\square				36
75°				-					$-\left\{ -\left\{ -\left\{ -\left\{ -\left\{ -\left\{ -\left\{ -\left\{ -\left\{ -\left\{ $	H	4		+		4
65°			_	+		_		~		\wedge					2
55°				+					-				\uparrow		a in
45° 1	0 ²		2	3	4 5	6	8	10	3	2 3	3 4	5 6	8 1	04	cd/m ²
	C0-180) -				-				C90-270) (

UGR diagram

Rifle	ct										
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		222023	100000	viewed	1	viewed					
x	У		c	rosswis	е	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
	6H	11.7	12.2	12.0	12.5	12.9	11.5	12.0	11.9	12.4	12.7
	BH	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	12.0
4H	2H	11.6	12.2	11.9	12.5	12.8	11.7	12.3	12.0	12.6	12.9
	ЗH	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
	BH	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
	BH	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
	бH	11.6	11.9	12.1	12.3	12.8	11.6	11.9	12.1	12.4	12.9
	8H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.9
Varia	ations wi	th the ot	pserverp	osition	at spacin	ig:					
S =	1.0H		2	.7 / -3	2	2.7 / -3.2					
	1.5H		5	.0 / -4	6	5.0 / -4.6					