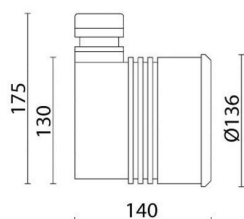


Last information update: April 2024

Product configuration: BI02

BI02: Recessed luminaires for swimming pools - Recessed luminaire 3 LEDs - 350mA DC

**Product code**BI02: Recessed luminaires for swimming pools - Recessed luminaire 3 LEDs - 350mA DC **Attention! Code no longer in production****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

Colour

Steel (13)

Mounting

wall recessed/ground recessed

Notes

Permanent immersion

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	291	CRI (minimum):	70
W system:	3.1	Colour temperature [K]:	6500
lm source:	400	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W source:	3.1	Lamp code:	LED
Luminous efficiency (lm/W, real value):	93.9	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	73	Intervallo temperatura ambiente:	from -20°C to +35°C.
Beam angle [°]:	38°	LED current [mA]:	350

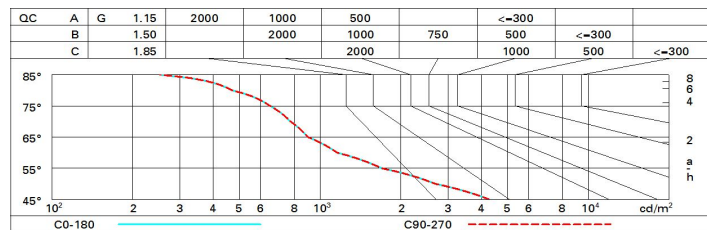
Polar

	CIE nL 0.73 92-99-100-100-73 UGR 11.7-11.6 DIN A.61 UTE 0.73A+0.00T F*1=915 F*1+F*2=985 F*1+F*2+F*3=998 CIBSE LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @ 65°			
	Lux			
	h	d	Em	Emax
	2	1.4	107	142
	4	2.8	27	35
	6	4.1	12	16
	8	5.5	7	9

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

Corrected UGR values (at 400 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	11.6	12.3	11.9	12.6	12.8	11.6	12.3	11.9	12.6	12.8
	3H	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
	8H	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
	3H	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
	8H	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
8H	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
	8H	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
	8H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.9
Variations with the observer position at spacing:											
S =		1.0H					2.7 / -3.2				
		1.5H					5.0 / -4.6				
		2.0H					6.8 / -5.2				