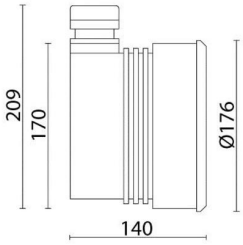
WaterApp

Design iGuzzini **iGuzzini**

Last information update: May 2018



Recessed luminaires for swimming pools - Recessed luminaire 9 LEDs - 1050mA DC

Product code
BI06

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 9 Neutral White LEDs (9x1,2W). Optical assembly opening is not required for its installation. Insulation class III. The luminaire must be powered by a 1050mA DC external driver.

Dimension (mm)
176x140

Colour
Steel (13)

Mounting
wall recessed|ground recessed

Notes
Permanent immersion

Complies with EN60598-1 and pertinent regulations

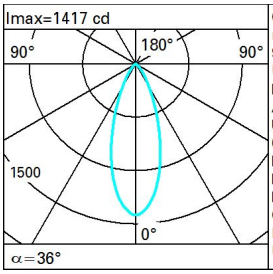
IK08 IP68

Product configuration: BI06

Product characteristics
Total lighting output [Lm]: 719
Total power [W]: 9.1
Luminous efficacy [Lm/W]: 79
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]: 9.1
Nominal luminous [Lm]: 950
Lamp maximum intensity [cd]: /
Beam angle [°]: 36°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 0
Colour temperature [K]: 4000
CRI: 75
Wavelength [Nm]: /
MacAdam Step: /

Polar



CIE
nL 0.76
91-98-100-100-76
UGR 12.9-12.8
DIN
A.61
UTE
0.76A+0.00T
F"1=914
F"1+F"2=984
F"1+F"2+F"3=998
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

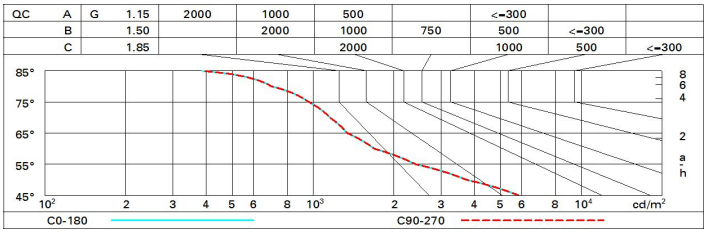
Lux

h	d	Em	Emax
1	0.6	1092	1417
2	1.3	273	354
3	1.9	121	157
4	2.6	68	89

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	61	58	56	60	58	57	55	72
1.0	69	65	62	60	64	62	61	58	77
1.5	73	70	68	66	69	67	67	64	85
2.0	76	74	72	70	73	71	70	68	90
2.5	77	76	74	73	75	73	73	70	93
3.0	78	77	76	75	76	75	74	72	95
4.0	80	79	78	77	77	77	76	73	97
5.0	80	79	79	78	78	78	76	74	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 950 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 x	y			viewed crosswise					viewed endwise		
2H	2H	12.7	13.4	13.0	13.7	13.9	12.7	13.4	13.0	13.7	13.9
	3H	12.8	13.5	13.1	13.7	14.0	12.7	13.4	13.0	13.6	13.9
	4H	12.8	13.4	13.2	13.7	14.0	12.7	13.3	13.0	13.6	13.9
	6H	12.8	13.4	13.2	13.7	14.0	12.6	13.2	13.0	13.5	13.8
	8H	12.8	13.3	13.2	13.7	14.0	12.6	13.1	13.0	13.4	13.8
	12H	12.8	13.3	13.2	13.6	14.0	12.6	13.1	12.9	13.4	13.8
4H	2H	12.7	13.3	13.0	13.6	13.9	12.8	13.4	13.2	13.7	14.0
	3H	12.8	13.3	13.2	13.7	14.0	12.9	13.4	13.3	13.7	14.1
	4H	12.9	13.3	13.3	13.7	14.1	12.9	13.3	13.3	13.7	14.1
	6H	12.9	13.3	13.3	13.7	14.1	12.9	13.2	13.3	13.6	14.1
	8H	12.9	13.2	13.3	13.7	14.1	12.8	13.2	13.3	13.6	14.0
	12H	12.9	13.2	13.3	13.6	14.1	12.8	13.1	13.3	13.5	14.0
8H	4H	12.8	13.2	13.3	13.6	14.0	12.9	13.2	13.3	13.7	14.1
	6H	12.9	13.2	13.3	13.6	14.1	12.9	13.2	13.4	13.6	14.1
	8H	12.9	13.1	13.4	13.6	14.1	12.9	13.1	13.4	13.6	14.1
	12H	12.8	13.1	13.4	13.5	14.1	12.8	13.1	13.3	13.5	14.1
12H	4H	12.8	13.1	13.3	13.5	14.0	12.9	13.2	13.3	13.6	14.1
	6H	12.8	13.1	13.3	13.6	14.1	12.9	13.1	13.3	13.6	14.1
	8H	12.8	13.1	13.3	13.5	14.1	12.8	13.1	13.4	13.5	14.1

Variations with the observer position at spacing:

S =			
	1.0H	2.5 / -2.9	2.5 / -2.9
	1.5H	4.8 / -4.2	4.8 / -4.2
	2.0H	6.7 / -4.8	6.7 / -4.8