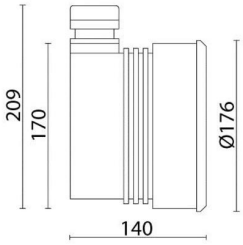
WaterApp

Design iGuzzini **iGuzzini**

Last information update: May 2018



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

Product code
BI08

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 Cool 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

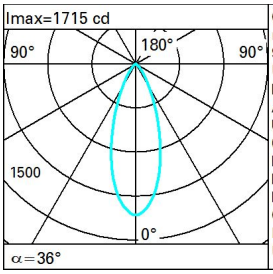
IK08 IP68

Product configuration: BI08

Product characteristics
Total lighting output [Lm]: 870
Total power [W]: 9.1
Luminous efficacy [Lm/W]: 95.6
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]: 1150
Lamp maximum intensity [cd]: /
Beam angle [°]: 36°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 0
Colour temperature [K]: 6500
CRI: 70
Wavelength [Nm]: /
MacAdam Step: /

Polar



CIE
nL 0.76
91-98-100-100-76
UGR 13.6-13.5
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<3000 cd/m² at 65°
UGR<16 I L<3000 cd/mq @65°

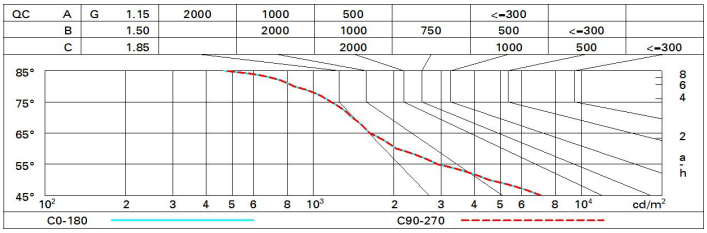
Lux

h	d	Em	Emax
2	1.3	330	429
4	2.6	83	107
6	3.9	37	48
8	5.2	21	27

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 1150 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	13.4	14.1	13.7	14.3	14.6	13.4	14.1	13.7	14.3	14.6
	3H	13.5	14.1	13.8	14.4	14.7	13.4	14.0	13.7	14.3	14.6
	4H	13.5	14.1	13.8	14.4	14.7	13.4	13.9	13.7	14.2	14.5
	6H	13.5	14.0	13.8	14.4	14.7	13.3	13.8	13.6	14.1	14.5
	8H	13.5	14.0	13.8	14.3	14.7	13.3	13.8	13.6	14.1	14.5
	12H	13.4	13.9	13.8	14.3	14.6	13.2	13.7	13.6	14.1	14.4
4H	2H	13.4	13.9	13.7	14.2	14.5	13.5	14.1	13.8	14.4	14.7
	3H	13.5	14.0	13.9	14.3	14.7	13.6	14.1	13.9	14.4	14.7
	4H	13.6	14.0	14.0	14.4	14.7	13.6	14.0	14.0	14.4	14.7
	6H	13.6	14.0	14.0	14.3	14.8	13.5	13.9	14.0	14.3	14.7
	8H	13.6	13.9	14.0	14.3	14.8	13.5	13.8	13.9	14.3	14.7
	12H	13.5	13.8	14.0	14.3	14.7	13.5	13.8	13.9	14.2	14.7
8H	4H	13.5	13.8	13.9	14.3	14.7	13.6	13.9	14.0	14.3	14.8
	6H	13.5	13.8	14.0	14.3	14.8	13.6	13.8	14.0	14.3	14.8
	8H	13.5	13.8	14.0	14.2	14.7	13.5	13.8	14.0	14.2	14.7
	12H	13.5	13.7	14.0	14.2	14.7	13.5	13.7	14.0	14.2	14.7
12H	4H	13.5	13.8	13.9	14.2	14.7	13.5	13.8	14.0	14.3	14.7
	6H	13.5	13.8	14.0	14.2	14.7	13.5	13.8	14.0	14.2	14.7
	8H	13.5	13.7	14.0	14.2	14.7	13.5	13.7	14.0	14.2	14.7

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