WaterApp

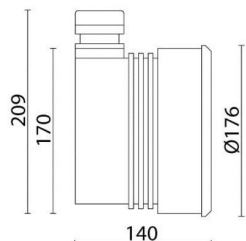**Design iGuzzini**   **iGuzzini**

Last information update: May 2018

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

Product code
BI05

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.
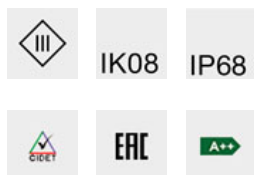
Dimension (mm)
176x140

Colour
Steel (13)

Mounting
wall recessed|ground recessed

Notes
Permanent immersion

Complies with EN60598-1 and pertinent regulations

III IK08 IP68

CIDET EAC A++

Product configuration: BI05

Product characteristics

Total lighting output [Lm]: 700	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 9.1	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 76.9	Voltage [V]: -
Life Time: 100,000h - L80 - B10 (Ta 25°C)	Ambient temperature range: from -20°C to +35°C.
Number of optical assemblies: 1	

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 74	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 9.1	Colour temperature [K]: 4000
Nominal luminous [Lm]: 950	CRI: 75
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 28°	MacAdam Step: /

Polar

Imax=1849 cd

α=28°

h	d	Em	Emax
2	1	354	462
4	2	88	116
6	3	39	51
8	4	22	29

Isolux

Lux
h=5 m.
$\alpha=0°$

LED
/
9.1 W

43   16   5   1.4   0.6   0.3   0.2   0.1   0.1

-1   0   1   2   3   4   5   6   7   8   9   m
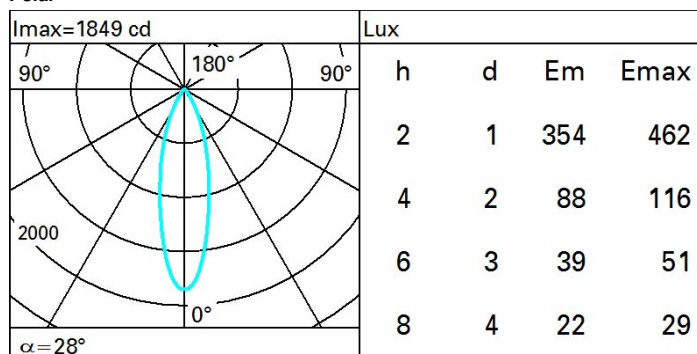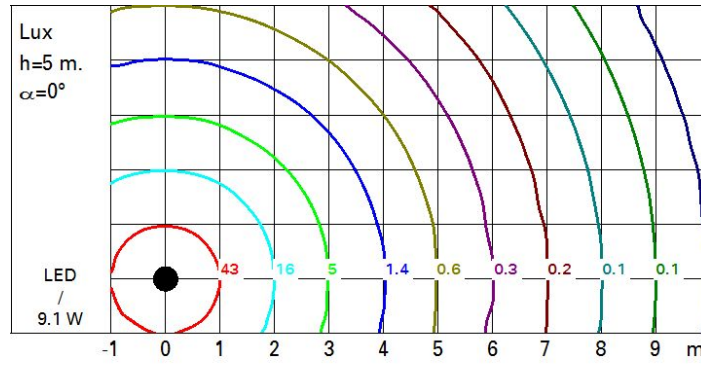
UGR diagram

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				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	11.9	12.6	12.2	12.8	13.0	11.9	12.6	12.2	12.8	13.0
	3H	12.2	12.8	12.5	13.1	13.4	12.0	12.6	12.3	12.9	13.2
	4H	12.3	12.9	12.6	13.2	13.5	12.0	12.6	12.3	12.9	13.2
	6H	12.3	12.9	12.7	13.2	13.5	12.0	12.5	12.3	12.8	13.1
	8H	12.3	12.8	12.7	13.2	13.5	11.9	12.4	12.3	12.8	13.1
	12H	12.3	12.8	12.7	13.1	13.5	11.9	12.4	12.3	12.7	13.1
4H	2H	12.0	12.6	12.3	12.9	13.2	12.3	12.9	12.6	13.2	13.5
	3H	12.4	12.9	12.8	13.3	13.6	12.5	13.0	12.9	13.3	13.7
	4H	12.6	13.0	13.0	13.4	13.8	12.6	13.0	13.0	13.4	13.8
	6H	12.6	13.0	13.1	13.4	13.8	12.6	13.0	13.0	13.4	13.8
	8H	12.6	13.0	13.1	13.4	13.8	12.6	12.9	13.0	13.3	13.8
	12H	12.6	12.9	13.1	13.3	13.8	12.5	12.8	13.0	13.3	13.7
8H	4H	12.6	12.9	13.0	13.3	13.8	12.6	13.0	13.1	13.4	13.8
	6H	12.7	12.9	13.1	13.4	13.9	12.7	13.0	13.1	13.4	13.9
	8H	12.7	12.9	13.2	13.4	13.9	12.7	12.9	13.2	13.4	13.9
	12H	12.6	12.9	13.2	13.3	13.9	12.6	12.9	13.1	13.3	13.9
12H	4H	12.5	12.8	13.0	13.3	13.7	12.6	12.9	13.1	13.3	13.8
	6H	12.6	12.9	13.1	13.3	13.8	12.6	12.9	13.1	13.4	13.9
	8H	12.6	12.9	13.1	13.3	13.9	12.6	12.9	13.2	13.3	13.9

Variations with the observer position at spacing:

S =	1.0H		2.0 / -1.6		2.0 / -1.6
	1.5H		3.9 / -2.5		3.9 / -2.5
	2.0H		5.6 / -3.1		5.6 / -3.1