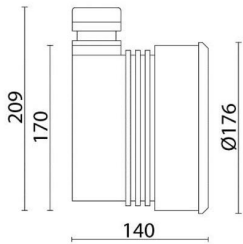# WaterApp

Design iGuzzini   **iGuzzini**

Last information update: May 2024

Product configuration: BI05
BI05: Recessed luminaires for swimming pools - Recessed luminaire 9 LEDs - 1050mA DC

Product code
BI05: Recessed luminaires for swimming pools - Recessed luminaire 9 LEDs - 1050mA 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 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.

Colour
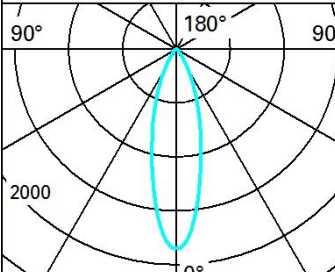Steel (13)

Mounting
wall recessed|ground recessed

Notes
Permanent immersion

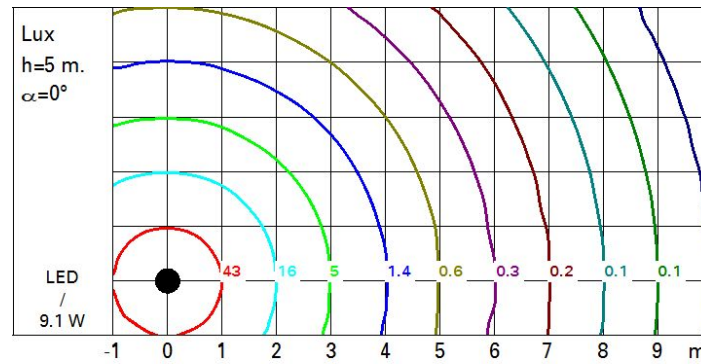Complies with EN60598-1 and pertinent regulations

III   IK08   IP68

Technical data

lm system:	700	CRI (minimum):	75
W system:	9.1	Colour temperature [K]:	4000
lm source:	950	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W source:	9.1	Lamp code:	LED
Luminous efficiency (lm/W, real value):	76.9	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.) [%]:	74	Intervallo temperatura ambiente:	from -20°C to +35°C.
Beam angle [°]:	28°	LED current [mA]:	350

Polar

Imax=1849 cd

h	d	Em	Emax
4	2	88	116
8	4	22	29
12	6	10	13
16	8	6	7

α=28°

Isolux

Lux
h=5 m.
α=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