WaterApp

Design iGuzzini **iGuzzini**

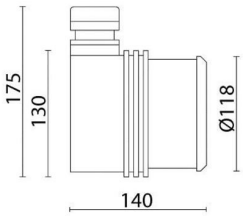
Last information update: May 2024

Product configuration: BH94
BH94: Recessed luminaires for fountains - Recessed luminaire 1 LED - 350mA DC

Product code
BH94: Recessed luminaires for fountains - Recessed luminaire 1 LED - 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 1 Neutral White LED (1x1,2W). 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

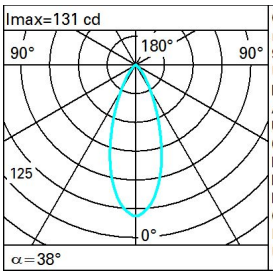
Notes
Permanent immersion

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	70	CRI (minimum):	75
W system:	1.1	Colour temperature [K]:	4000
lm source:	110	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W source:	1.1	Lamp code:	LED
Luminous efficiency (lm/W, real value):	63.7	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.) [%]:	64	Intervallo temperatura ambiente:	from -20°C to +35°C.
Beam angle [°]:	38°	LED current [mA]:	350

Polar



CIE
nL 0.64
92-99-100-100-64
UGR <10-<10
DIN
A.61
UTE
0.64A+0.00T
F"1=921
F"1+F"2=990
F"1+F"2+F"3=999
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

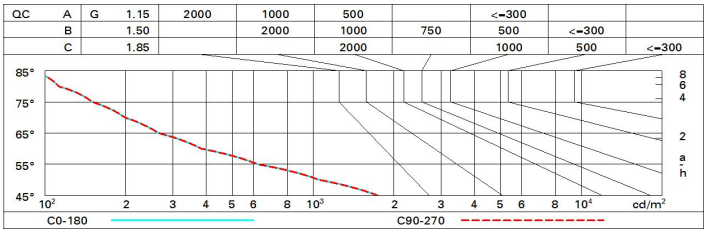
Lux

h	d	Em	Emax
1	0.7	101	131
2	1.4	25	33
3	2.1	11	15
4	2.8	6	8

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	55	52	49	47	51	49	49	46	73
1.0	58	55	53	51	54	52	52	50	78
1.5	62	59	57	56	59	57	56	54	85
2.0	64	62	61	60	61	60	59	57	90
2.5	65	64	63	62	63	62	61	59	93
3.0	66	65	64	64	64	63	63	61	95
4.0	67	66	66	65	65	65	64	62	97
5.0	68	67	66	66	66	65	64	63	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 110 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	8.5	9.2	8.8	9.5	9.7	8.5	9.2	8.8	9.5	9.7
	3H	8.5	9.1	8.8	9.4	9.7	8.5	9.1	8.8	9.4	9.7
	4H	8.4	9.0	8.8	9.3	9.6	8.4	9.0	8.8	9.3	9.6
	6H	8.4	8.9	8.7	9.2	9.6	8.3	8.9	8.7	9.2	9.5
	8H	8.4	8.9	8.7	9.2	9.5	8.3	8.8	8.7	9.2	9.5
	12H	8.3	8.8	8.7	9.2	9.5	8.3	8.8	8.7	9.1	9.5
4H	2H	8.4	9.0	8.8	9.3	9.6	8.4	9.0	8.8	9.3	9.6
	3H	8.4	8.9	8.8	9.2	9.6	8.4	8.9	8.8	9.2	9.6
	4H	8.3	8.8	8.7	9.1	9.5	8.3	8.8	8.7	9.1	9.5
	6H	8.3	8.7	8.7	9.1	9.5	8.3	8.7	8.7	9.1	9.5
	8H	8.3	8.6	8.7	9.0	9.5	8.2	8.6	8.7	9.0	9.4
	12H	8.2	8.5	8.7	9.0	9.4	8.2	8.5	8.6	8.9	9.4
8H	4H	8.2	8.6	8.7	9.0	9.4	8.3	8.6	8.7	9.0	9.5
	6H	8.2	8.5	8.7	8.9	9.4	8.2	8.5	8.7	8.9	9.4
	8H	8.2	8.4	8.6	8.9	9.4	8.2	8.4	8.6	8.9	9.4
	12H	8.1	8.3	8.6	8.8	9.3	8.1	8.3	8.6	8.8	9.3
12H	4H	8.2	8.5	8.6	8.9	9.4	8.2	8.5	8.7	9.0	9.4
	6H	8.1	8.4	8.6	8.9	9.4	8.2	8.4	8.6	8.9	9.4
	8H	8.1	8.3	8.6	8.8	9.3	8.1	8.3	8.6	8.8	9.3

Variations with the observer position at spacing:

S =			
	1.0H	3.1 / -4.4	3.1 / -4.4
	1.5H	5.5 / -6.7	5.5 / -6.7
	2.0H	7.5 / -7.8	7.5 / -7.8