iGuzzini

Last information update: May 2024

Product configuration: BH94

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



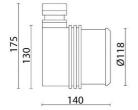
Product code

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 | | | |
|---|------|--|--------------------------------|
| Im system: | 70 | CRI (minimum): | 75 |
| W system: | 1.1 | Colour temperature [K]: | 4000 |
| Im source: | 110 | Life Time LED 1: | 100,000h - L80 - B10 (Ta 25°C) |
| W source: | 1.1 | Lamp code: | LED |
| Luminous efficiency (Im/W, real value): | 63.7 | Number of lamps for optical assembly: | 1 |
| Im 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

| Imax=131 cd | CIE | Lux | | | |
|-------------|--|---------|-----|-----|------|
| 90° 180° 90 | nL 0.64 92-99-100-100-64 | h | d | Em | Emax |
| | UGR <10-<10 DIN A.61 | 1 | 0.7 | 101 | 131 |
| | UTE 0.64A+0.00T F"1=921 | 2 | 1.4 | 25 | 33 |
| 125 | F"1+F"2=990 F"1+F"2+F"3=999 CIBSE | 3 | 2.1 | 11 | 15 |
| α=38° | LG3 L<1500 cd/m ² at 65° UGR<10 L<1500 cd/mq (| a 65° 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

| QC | Α | G 1.15 | 2000 | 1000 | 500 | | <-300 | | |
|-----|----|--------|-------|--------|------|-------------------|-------|-------------------|--------|
| | В | 1.50 | | 2000 | 1000 | 750 | 500 | <=300 | |
| | C | 1.85 | | | 2000 | | 1000 | 500 | <-300 |
| 050 | | | | | | | / | | |
| 85° | | | | | | | | | 8 |
| 75° | | | | | | | | | _ 4 |
| 15 | | | | | | 1 | h | - | |
| 65° | | | | | | | | | 2 |
| | | | | | | | | | - 4 |
| | | | | | | | | | |
| | | | | | | | | | a |
| | | | | | | $\langle \rangle$ | | \mathbb{R} | a h |
| 55° | | | | | | $\langle \rangle$ | | | h |
| 55° | 02 | 2 | 3 4 5 | 6 8 10 | 3 | 2 3 | 4 5 6 | 8 10 ⁴ | ~ . |

UGR diagram

| 4H | v N. | 0.70 0.50 0.20 8.5 8.5 8.4 8.4 8.4 8.3 8.4 8.4 | 9.2 9.1 9.0 8.9 8.9 8.8 9.0 | 0.50 0.20 viewed crosswise 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7 8.7 | 0.50 0.30 0.20 e 9.5 9.4 9.3 9.2 9.2 9.2 9.2 | 0.30 0.30 0.20 9.7 9.7 9.6 9.6 9.5 9.5 | 0.70 0.50 0.20 8.5 8.5 8.4 8.3 8.3 | 0.70 0.30 0.20 9.2 9.1 9.0 8.9 8.8 | 0.50 0.50 0.20 viewed endwise 8.8 8.8 8.8 8.8 8.8 8.7 8.7 | | 0.30 0.30 0.20 9.7 9.7 9.6 9.5 |
|---|---|--|--|---|--|--|---|---|--|--|--|
| walls work pl Room d x 2H 4H | ы. dim y 2H 3H 4H 6H 8H 12H 2H 3H | 0.50 0.20 8.5 8.5 8.4 8.4 8.4 8.3 8.4 8.4 | 0.30 0.20 9.2 9.1 9.0 8.9 8.8 9.0 | 0.50 0.20 viewed crosswise 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 | 0.30 0.20 e 9.5 9.4 9.3 9.2 9.2 | 0.30 0.20 9.7 9.6 9.6 9.5 | 0.50 0.20 8.5 8.5 8.4 8.3 8.3 | 0.30 0.20 9.2 9.1 9.0 8.9 | 0.50 0.20 viewed endwise 8.8 8.8 8.8 8.8 8.8 8.8 | 0.30 0.20 9.5 9.4 9.3 9.2 | 0.30 0.20 9.7 9.7 9.0 |
| Room d x 2H 4H | dim Y 2H 3H 4H 6H 8H 12H 2H 3H | 8.5 8.5 8.4 8.4 8.4 8.4 8.3 8.4 8.4 | 9.2 9.1 9.0 8.9 8.8 9.0 | viewed crosswise 8.8 8.8 8.8 8.7 8.7 8.7 8.7 | 9.5 9.4 9.3 9.2 9.2 | 9.7 9.7 9.6 9.5 | 8.5 8.5 8.4 8.3 8.3 | 0.20 9.2 9.1 9.0 8.9 | viewed endwise 8.8 8.8 8.8 8.8 8.7 | 9.5 9.4 9.3 9.2 | 9.7 9.7 9.6 |
| Room d x 2H 4H | dim Y 2H 3H 4H 6H 8H 12H 2H 3H | 8.5 8.4 8.4 8.4 8.3 8.3 8.4 8.4 | 9.2 9.1 9.0 8.9 8.9 8.8 9.0 | 8.8 8.8 8.8 8.7 8.7 8.7 8.7 | 9.5 9.4 9.3 9.2 9.2 | 9.7 9.6 9.6 9.5 | 8.5 8.4 8.3 8.3 | 9.2 9.1 9.0 8.9 | 8.8 8.8 8.8 8.8 8.8 8.7 | 9.5 9.4 9.3 9.2 | 9.7 9.6 |
| 2H 4H | 2H 3H 4H 6H 8H 12H 2H 3H | 8.5 8.4 8.4 8.4 8.3 8.3 8.4 8.4 | 9.2 9.1 9.0 8.9 8.9 8.8 9.0 | 8.8 8.8 8.8 8.7 8.7 8.7 | 9.5 9.4 9.3 9.2 9.2 | 9.7 9.6 9.6 9.5 | 8.5 8.4 8.3 8.3 | 9.2 9.1 9.0 8.9 | 8.8 8.8 8.8 8.7 | 9.5 9.4 9.3 9.2 | 9.7 9.6 |
| 4H | 3H 4H 6H 8H 12H 2H 3H | 8.5 8.4 8.4 8.4 8.3 8.3 8.4 8.4 | 9.1 9.0 8.9 8.9 8.8 | 8.8 8.8 8.7 8.7 8.7 | 9.4 9.3 9.2 9.2 | 9.7 9.6 9.6 9.5 | 8.5 8.4 8.3 8.3 | 9.1 9.0 8.9 | 8.8 8.8 8.7 | 9.4 9.3 9.2 | 9.7 9.6 |
| 4H | 4H 6H 8H 12H 2H 3H | 8.4 8.4 8.3 8.4 8.4 8.4 | 9.0 8.9 8.9 8.8 | 8.8 8.7 8.7 8.7 | 9.3 9.2 9.2 | 9.6 9.6 9.5 | 8.4 8.3 8.3 | 9.0 8.9 | 8.8 8.7 | 9.3 9.2 | 9.0 |
| 4H | 6н 8н 12н 2н 3н | 8.4 8.4 8.3 8.4 8.4 | 9.8 9.8 8.8 0.9 | 8.7 8.7 8.7 | 9.2 9.2 | 9.6 9.5 | 8.3 8.3 | 8.9 | 8.7 | 9.2 | |
| 4H | 8н 12Н 2Н 3Н | 8.4 8.3 8.4 8.4 | 9.8 8.8 0.9 | 8.7 8.7 | 9.2 | 9.5 | 8.3 | | 1.00 | | 9.5 |
| 4H | 12H 2H 3H | 8.3 8.4 8.4 | 8.8 0.9 | 8.7 | | | | 8.8 | 8.7 | 0.2 | |
| 4H | 2H 3H | 8.4 8.4 | 9.0 | 140.5 | 9.2 | 9.5 | | | | 9.2 | 9.5 |
| | ЗН | 8.4 | | 8.8 | | 21.285 | 8.3 | 8.8 | 8.7 | 9.1 | 9.5 |
| | 1000 | 0.000 | 0.0 | 2.0 | 9.3 | 9.6 | 8.4 | 9.0 | 8.8 | 9.3 | 9.6 |
| | 4H | | 8.9 | 8.8 | 9.2 | 9.6 | 8.4 | 8.9 | 8.8 | 9.2 | 9.6 |
| | | 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 |
| | HS | 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 | 9.8 | 9.4 |
| вн | 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 |
| | H8 | 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 |
| | H8 | 8.1 | 8.3 | 8.6 | 8.8 | 9.3 | 8.1 | 8.3 | 8.6 | 8.8 | 9.3 |
| Variatio | ons wit | th the o b | oserverp | osition | at spacir | ng: | | | | | |
| S = 1 | 1.0H | | 3 | .1 / -4 | .4 | | | 3 | .1 / -4. | 4 | |
| 1 | 1.5H | | 5 | .5 / -6 | .7 | | | 5 | .5 / -6. | .7 | |