

## POOL LITE HIGH POWER PURE LED LUMINAIRES

### INSTALLATION INSTRUCTIONS

**NOTE: THESE INSTRUCTIONS MUST NOT CONTRAVENE YOUR LOCAL ELECTRICAL AUTHORITY REGULATIONS, WITH WHICH ALL INSTALLATIONS HERE IN MUST COMPLY. PLEASE KEEP INSTRUCTIONS FOR FUTURE REFERENCE.**

- 1. Fibre Glass Swimming Pools** - Cut an 85mm hole in the pool wall at the desired level. Mount the canister in the hole, use an appropriate sealant that will bond to fibre glass and the PVC canister (the pool wall can be up to 20mm thick) and fix the canister in place by the securing nut provided.
- 2. Existing Concrete Pools** - Cut an 85mm hole in the concrete wall. Apply epoxy around the hole and fix the canister by the three mounting holes in the flange using stainless steel screws provided. The canister flange is then seated on the surface of the pool wall and when the luminaire is in place the flange of the luminaire hides the canister flange.
- 3. New Concrete Pools** - Apply PVC cement to the PVC canister and roll it in sand, this creates a key for the plaster/cement to adhere to the canister. Use the holes in the securing nut to wire the PVC canister to the metal reinforcing. The canister is then plastered/concreted into position completely encapsulating the PVC canister on all sides except the opening where the luminaires fits into. The flange should then be flush with the wall of the pool. The design of the PVC canister allows tiles to be laid over the canister flange and the stainless steel luminaires will fit flush against the tiles.

**Electrical Connection** - A 20mm rigid conduit is inserted into the conduit entry at the rear of the mounting canister using PVC solvent cement to make a water tight joint. As the luminaire is inserted into the canister water is pushed up the conduit, the cable connection is to be terminated above the water level to stop water getting into the junction point. Refer to your Local Electrical Authority Regulations regarding a fuse on the output of the transformer, and details of pool zone installation regulations.

#### BSEN60598

In accordance with BSEN60598 this luminaire has been graded as Class 3 for protection against electric shock and has internal circuits that operate on voltage not exceeding 24 volts. This luminaire is suitable for mounting only on non-combustible surfaces. Replace lens immediately if cracked.

#### ATTENTION: 316 Stainless Steel Properties

Please read the following carefully, this is to bring to your attention to a number of important points pertaining to the properties of 316 stainless steel.

- 316 Stainless is suitable for use in water with a level of Chlorine (which is dissolved gas in water) of up to 3 parts per million. The chlorine is there to inhibit biological build up in the water.
- 316 Stainless is suitable for use in water with a level of chloride of up to 1000 parts per million and a pH level of 7.
- The corrosion factor may double for each 10 degrees of water temperature increase.
- In the first week after the pool is filled the chemical concentration is often increased to over five times normal level. After the first week the chemicals are allowed to return to normal levels. Therefore corrosion of the luminaire is likely to be severe during this period. This can be averted by removing the luminaire from its mounting canister and placing it out of the water until the chemical level returns to normal.
- If corrosion occurs and it is not severe the staining may be removed with fresh water and detergent, if the detergent does not remove the staining then a product such as Jenolite can be used. Jenolite is a phosphoric acid solution and should be used with caution! The manufacturers recommendations must be followed carefully.
- If you are not certain that the chemical level will remain below the specified levels stated above after the initial set up period an electropolished version is available. Electropolishing may increase the corrosion resistance of the luminaire by 33%.

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### LED CHANGING

**CAUTION:** Make sure that the power to the luminaire is switched off before attempting to change the LED.

#### LED Changing Sequence

When replacing gasket and lens, make sure there is no dirt or grit on the gasket. Dirt or grit on the gasket may cause luminaire to leak.

#### Gasket and lens sequence

Place lens on top of lamp and put orange gasket on top of lens. Screw on lens ring.

#### Recommendation:

Run all low voltage cables in flexible conduit for extra protection. Use Hunza Cable Joint Kit CJK#150. It is recommended that high quality lamps are used when replacing lamps. Do not over tighten lens ring as this will make removal difficult and may cause lamp to break.

**Note:** If not using a HUNZA™ driver - you must select a 24VDC driver.

**Warning:** Do not disconnect the LED luminaire from secondary side of the driver connected to the mains. Switch off mains FIRST then disconnect luminaire from the output side of the driver. Do not water blast/jet wash this fixture under any circumstances. Do not carry this fixture by the cable!

