

## LED High Bay Range 100-200w – Fitting & Installation

### General

Lighthouse Led High Bays are constructed with high quality aluminium bodies, stainless steel screws and bolts and spun aluminium reflectors. LED chips are incorporated in tempered glass lenses. Each fitting contains one ballast controlling up to 4 LED chips. A 0.75mm, 3 core cable is supplied for installation purposes. Each fitting can be identified by a foil label on the side of the fitting. Full specification can be found on our website [www.ltc-ni.com](http://www.ltc-ni.com).

### Before installation please note the following

The ambient operating temperature range is -20 to +30 degrees C. Fittings should not be installed inside buildings where there is a risk of temperatures exceeding 30 degrees. In all applications fittings should not be positioned in direct sunlight or in areas subjected to radiated heat. The fins on the fitting are designed to dissipate heat away from the chip and must be regularly maintained to avoid build up of dust and other debris which can reduce efficiency. Fittings must not be installed in applications where there is the possibility of direct contact with water and high levels of moisture or dust. Fitting life may be reduced by continual use (24/7) or constant switching.

Our fittings are fitted with surge protected ballasts, which are designed to shut down when occasional surges occur in the mains supply. In the event of a surge the fitting will shut down and can be reset by switching supply off for 10 minutes before switching on again. Fittings must not be incorporated in circuits with Metal Halide or SON fittings or in situations where voltage or current fluctuations (transients) are likely to affect the circuit, such as constant surges will affect fitting life and lead to early failure. All circuits must be surge protected where there is possibility of surges/transients.

Fittings may be controlled by external photocells or PIRs via a contactor however no more than 500 circuit watts should be controlled by one PIR or Photocell. Fittings must not be automated by more than one device. When activated each fitting should remain on for a minimum of 20 minutes. Total circuit loading should not exceed 70% of the maximum circuit loading.

### Installation

Prior to installation check that there is no transit damage to the fitting.

1. Build up the fitting by inserting the eye bolt into the top of the fitting, this MUST be secured by the grub screw at the side. Twist lock and tighten the reflector in position
2. Choose a suitable mounting point and secure the fitting to the mounting point with a suitable fixing method (jack chain or similar)
3. Use a junction box or quick connector to make connection to mains. Brown – Live, Blue – Neutral, Green/Yellow – Earth.
4. Where cables are reconnected inside the fitting, care must be taken to ensure all seals are intact and properly seated after connection. Ensure that the ballast housing bolts are fully tightened.
5. Fittings should not be wired in series and no more than 10 fittings or 70% of the maximum circuit wattage.

### Warranty

All lighthouse fittings undergo a rigorous testing regime during manufacture. Lighthouse offers to repair, replace or credit were fittings are found to be defective due to manufacturing defect or have been subjected to transit damage to the place of delivery specified on our despatch note (but not to installation site). Lighthouse may refuse warranty were fittings have been removed from site and may require sites of more than 20 fitting to be registered. Inappropriate use or failure to follow installation instructions will invalidate the warranty. This warranty extends to 36 months of use or 12000 hrs from date of supply whichever occurs first. Full terms and conditions are available on our website [www.ltc-ni.com](http://www.ltc-ni.com).