

## LED Down Lights 9w -24w – Fitting & Installation

### General

Lighthouse LED Down Lights are constructed with high quality alloy bodies with polycarbonate diffuser achieving an IP24 rating. The fitting can be identified by a foil label on the ballast. 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. 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. Fitting life may be reduced by continual use (24/7) or constant switching. These fittings **MUST** not be used in moist or damp environments.

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 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 PIRs via a contactor however no more than 500 circuit watts should be controlled by one PIR. 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. Choose a suitable mounting point and make the cut out as follows 9w - 125mm. 12w -140mm. 16w – 190mm. 24w - 230mm. Brown – Live Blue – Neutral .
2. Fittings should not be wired in series and no more than 10 fittings or should be included on any circuit.

### Warranty

All lighthouse fittings undergo a rigorous testing regime during manufacture. Lighthouse offers to repair, replace or credit where 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 where 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).