



**INSTALLATION AND MAINTENANCE MANUAL  
DUROSITE® SERIES LED LOW BAY**

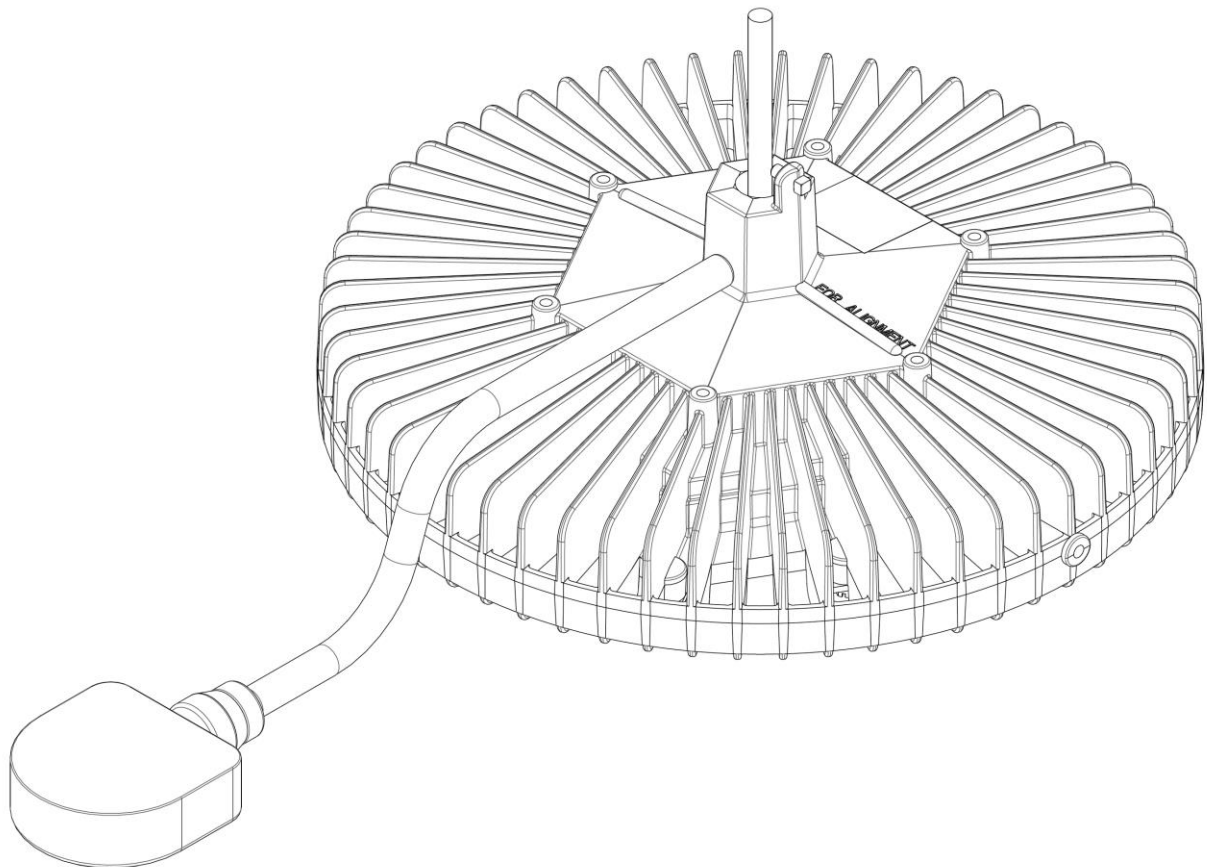
Document No: 9100-127-1495-99 Rev D

August 2015

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**MODEL #**

**LBW1x2x**



## 1: Introduction

This Low Bay light is designed for illumination of industrial locations. It uses the latest in solid state lighting technology for long life, low maintenance, and high efficiency.

The unique optical design focuses light downward to where it is needed, giving improved efficiency over a conventional HID luminaire.

An internal power-factor-corrected switch-mode supply allows it to be used from any nominal 120V-277V, 50/60Hz AC supply without any variation in light output.

The unit is provided with an occupancy sensor that will switch the light from off to on when motion is detected. The sensor's position and detection pattern is adjustable, as well as the length of time the unit operates at full brightness.

Model LBW1x2x is suitable for use in the following locations:

- Wet Locations as per UL 1598
- Outdoor Type (Salt Water) as per UL 1598A

**Note:** Save these instructions for future reference.

## 2: Installation

**⚠ Warning:**

To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

**⚠ Warning:**

To avoid electric shock:

- Be certain electrical power is OFF before and during installation and maintenance.
- Luminaire must be connected to a wiring system with an equipment-grounding conductor.

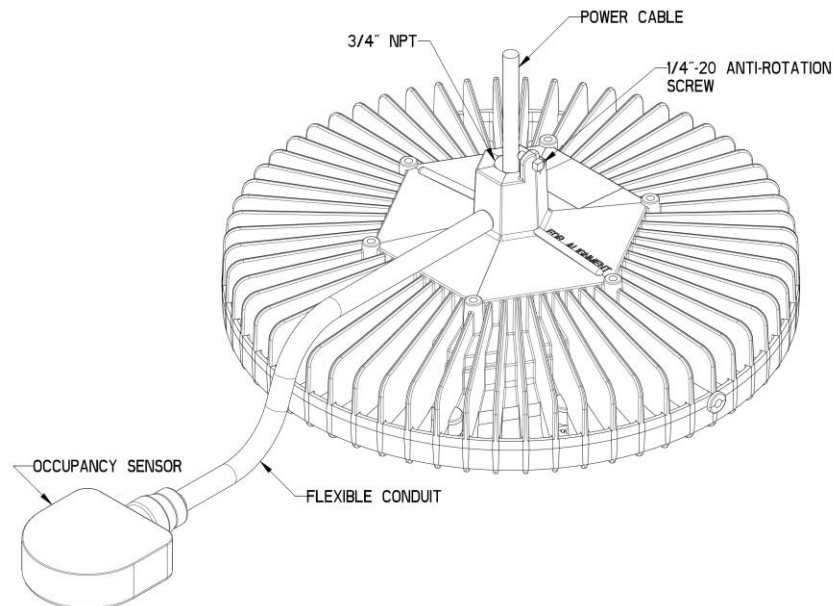
**⚠ Warning:**

- Make sure the supply voltage is the same as the rated luminaire voltage.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.

Recommended mounting height: 12-20 feet

**Pendent Mount Installation Steps:**

- For maximum long term reliability and light output, the light must be installed in free air.
  - The Low Bay fixture design incorporates an over-temperature control circuit that reduces input power should internal temperatures reach a maximum level. As a result, light output may be reduced.
- The Low Bay fixture is threaded for 3/4" NPT in order to be assembled to conduit.
  - Calculate and measure required conduit length.
  - Feed the power cable through the conduit and into the junction box.
  - Attach the fixture to the conduit (**using Teflon tape or pipe sealant**).
  - Insert 1/4"-20 anti-rotation screw in order to secure the fixture to the conduit.
- Connect power cable conductors as follows:
  - Green wire connects to Safety Ground.
  - White wire connects to Neutral
  - Black wire connects to Live
  - When using 208V (two 120V phases) connect the black wire to one phase and the white wire to the other phase.
    - Since the light fixture does not have an internal fuse on the white wire (as it is normally the neutral), a fuse may be connected in series with the white wire if required.
- Restore power and verify operation.



**Occupancy Sensor:**

The Dialight Low Bay fixture is ideally suited for control by an occupancy sensor in order to maximize energy savings based on its instant-on behavior and low power consumption. Instructions from the Sensor manufacture for use and operation of the occupancy sensor are included in this manual as a separate sheet. DO NOT DISCARD.

**WARNING:** TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

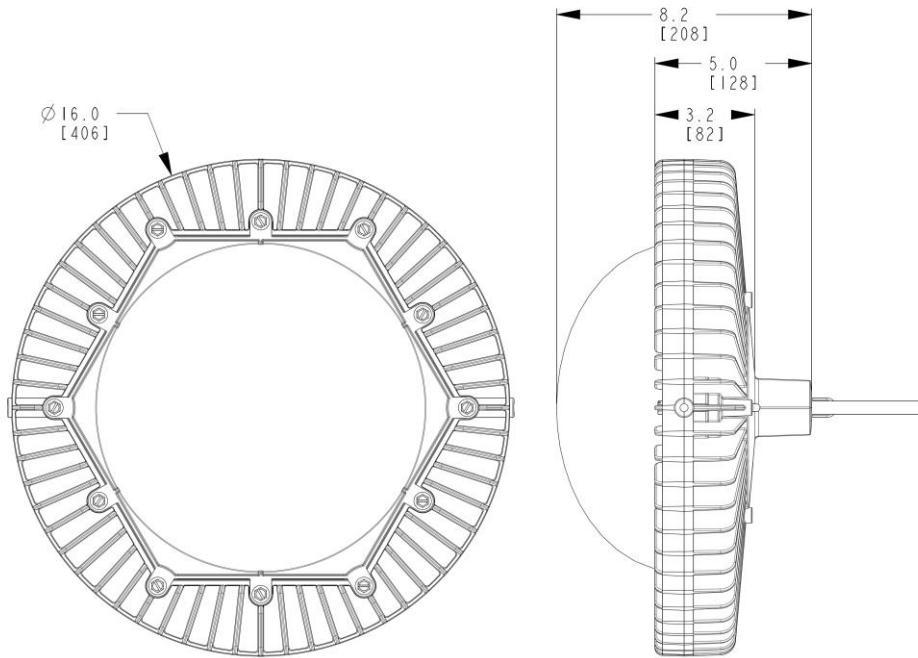
**3: Maintenance**

- To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.
- ⚠ **Warning:** No user serviceable parts inside of fixture. Risk of electric shock. Removal of the lens will void the warranty.
- 1) Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended Practice for Electrical Equipment.
- 2) The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occur.
- 3) Inspect the cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.

**4. Specifications**

Nominal AC Supply Voltage	120-277VAC, 50/60Hz single phase
Power consumption	80W nominal
Operating temperature range	-40°C to +65°C [-40°F to +149°F]
Power factor	>0.9
ATHD	<15%
Dimensions (Height x Diameter)	8" x 16" [20.3cm x 40.6cm]
Weight	18 lbs [8.2 kg]





**DIMENSIONS ARE FOR REFERENCE ONLY.**

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. In accordance with Dialight Corporation "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

