



**INSTALLATION AND MAINTENANCE MANUAL**  
**Vigilant® Series LED High Bay with Jennet Wireless Controls, 347-480VAC**

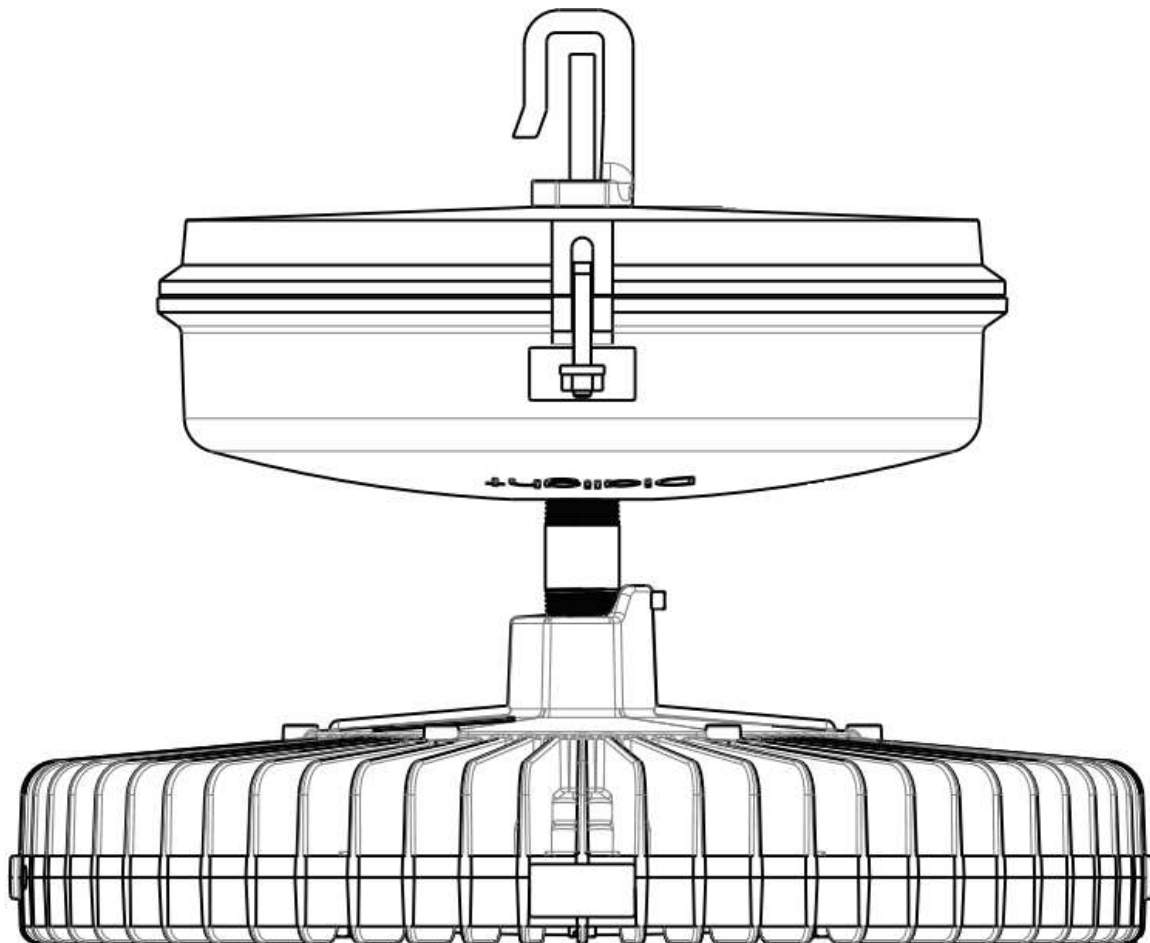
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MODEL #'s

HExxx5xJxxx





## 1: Introduction

This High 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 347V-480V, 50/60Hz AC supply without any variation in light output.

The High Bay fixture contains integrated Jennet Wireless controls that operate per IEEE802.15.4 standards.

Models HExxx5xxxxx are suitable for use in the following locations:

- Dry locations only as per UL 1598

**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.

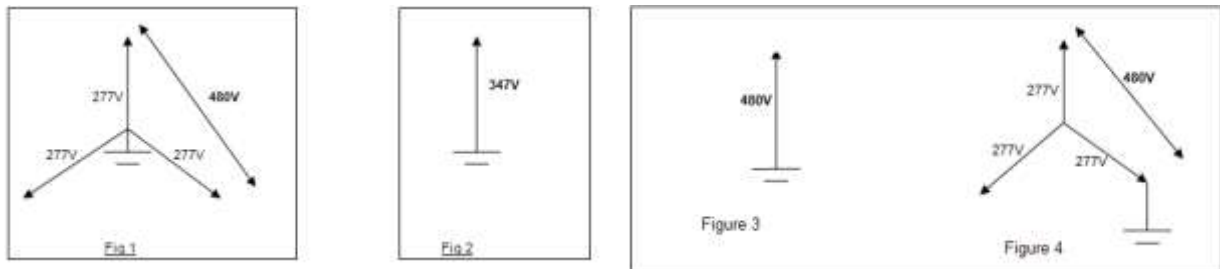
Recommended mounting height: 25-40 feet



### Pendent Mount Installation Steps:

- For maximum long term reliability and light output, the light must be installed in free air.
  - The High 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 High 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 (ensure set screw will not interfere with installation) **(using Teflon tape or pipe sealant)**.
  - Tighten set screw to 36-38 in-lbs in order to secure the fixture to the conduit.
  - Close the junction box and fasten the clamping screw to 50-55 in-lbs.
- Connect power cable conductors as follows:
  - For single phase
    - Green wire connects to Safety Ground.
    - Black wire connects to Neutral
    - Red wire connects to Live
  - For two phase
    - Green wire connects to Safety Ground.
    - Red wire connects to Line 1.
    - Black wire connects to Line 2.
- Restore power and verify operation.

### Suitable Supply Voltages




- For use with 480VAC (Fig 1) produced from two, 277VAC phases (277VAC line-ground), or single-phase 347VAC (Fig 2), or single phase 480VAC. (Fig 3).
- Nominal line-ground voltage must not exceed 347VAC (Fig 4)
- Not for use with nominal supply voltages below 347VAC.

To properly configure the luminaire for use on the Jennet Wireless network, please refer to the applicable controller documentation. NOTE: The maximum distance between any two luminaires or controller must be less than or equal to 70 feet.

### 3: Maintenance

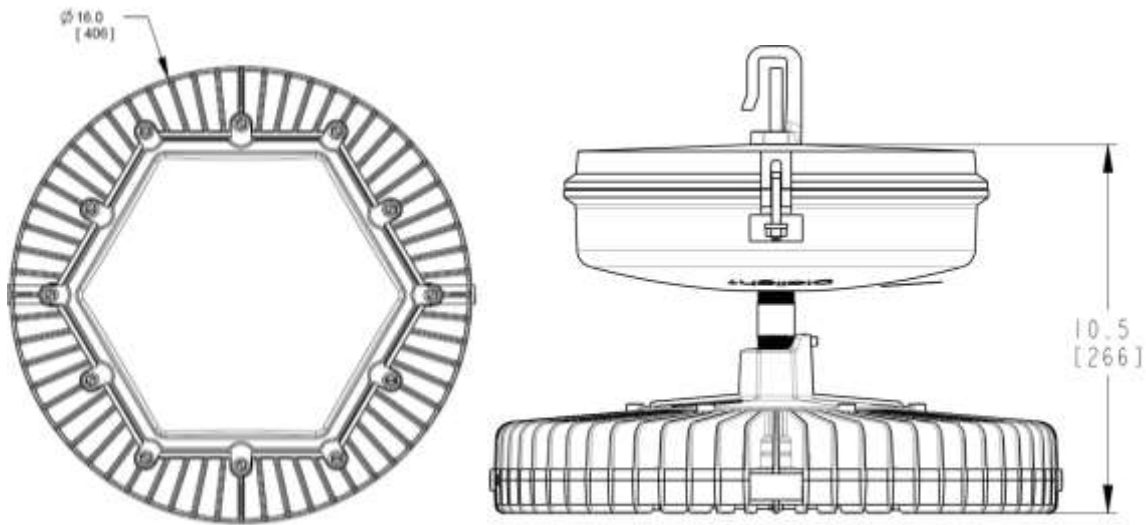
- To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

 **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	347-480VAC, 50/60Hz
Power consumption	HExxx5Pxxx: 226W nominal HExxx5Kxxx: 155W nominal HExxx5Gxxx: 126W nominal HExxx5Dxxx: 101W nominal
Operating temperature range	-40°F to +149°F [-40°C to +65°C]
Power factor	>0.9
ATHD	<20%
Dimensions (Height x Diameter)	10.5" x 16" [267cm x 40.6cm]
Weight	33 lbs [15 kg]



**DIMENSIONS ARE FOR REFERENCE ONLY.**

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