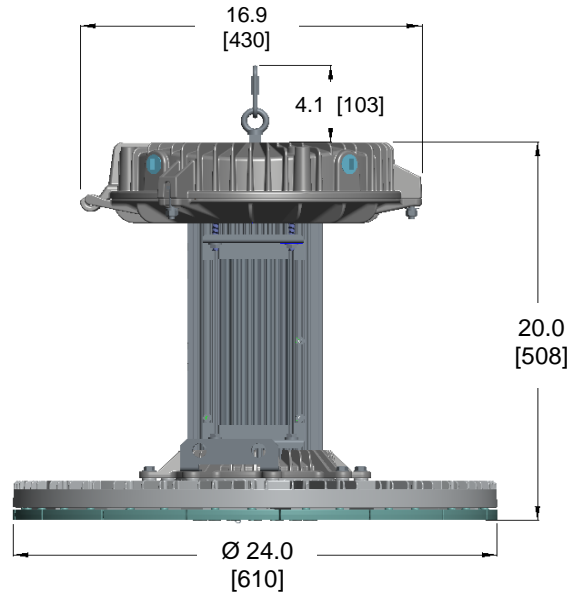
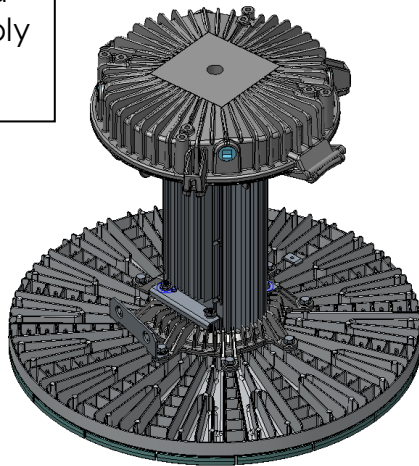


Important Information:

These instructions contain safety information, read and follow them carefully. Dialight will not accept any responsibility for injury, damage or loss which may occur due to incorrect installation, operation or maintenance.

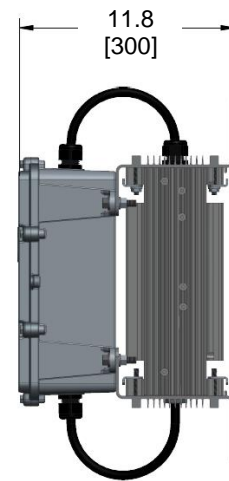
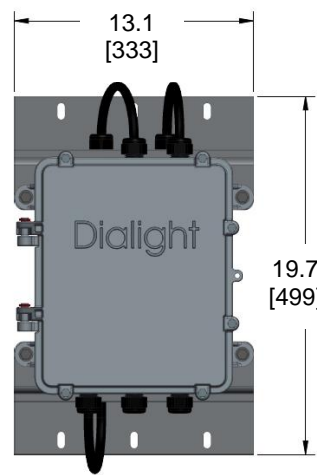
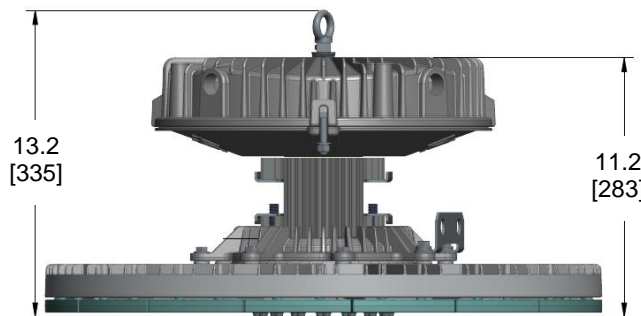
Operating Instructions

Integrated Power Supply Version



Hook mounting option

Remote Power Supply Version



Dimensions in inches [mm]

Languages

Page Number

English

1

Note: Save these instructions for future use



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.

Safety Instruction:

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.
- Make sure the supply voltage is the same as the rated luminaire voltage.
- The technical data indicated on the LED luminaires are to be observed.
- Changes of the design and modifications to the LED luminaire are not permitted.
- Observe the national electrical safety rules and regulations during installation.
- No field replaceable parts.

Introduction

This High Bay luminaire is designed for illumination of industrial locations and use the latest in solid state lighting technology for long life, low maintenance, and high efficiency.

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

For 120-277VAC models:

An internal power-factor-corrected supply allows it to be used at a nominal 120-277VAC 50/60Hz AC supply without any variation in light output.

All models are suitable for use in wet locations per UL-1598.

Recommended mounting height:

H6xxxxKxxxx - [45K] =	30-60ft	[9-18m]
H6xxxxNxxxx - [60K] =	60-100ft	[18-30m]
H6xxxxRxxxx - [70K] =	60-100ft	[18-30m]

NOTE: Occupancy sensor models are available for mounting heights up to 40ft.

General Mounting Information

For maximum long term reliability and light output, the luminaire must be installed in free air. The High Bay luminaire 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 temporarily reduced at higher ambient temperatures.

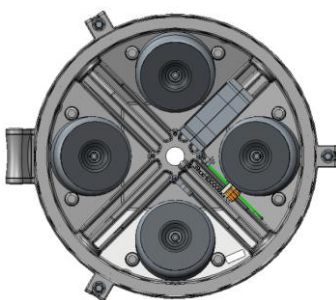
High Bay luminaires that are fitted with an attached mounting hook should be hung from an

appropriately sized mounting point. The 3/4" NPT threaded side entrances can be used for wiring as required when equipped with the appropriately sized cable glands.

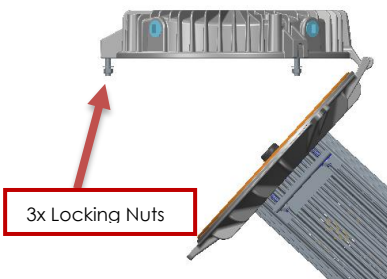
Pendent Mounting Information

The High Bay luminaire is threaded for 3/4" NPT in order to be assembled to conduit.

- Calculate and measure required conduit length.
- Remove the top half of the wiring box from the luminaire.
- Feed the power cable through the conduit and into the wiring box.
- Attach the wiring box to the conduit using Teflon tape or pipe sealant.
- Insert 1/4"-20 anti-rotation screw in order to secure the luminaire to the conduit.



Hang the Luminaire on the hook feature of the top half of the wiring box.



Installation of Luminaire (Electrical Connection)

Note: Electrical installation of the extension should be carried out by a qualified electrician.

The High Bay luminaire is supplied with 3 conductors. Connect the conductors as follows:

For single phase units, 120-277VAC or 347VAC or 480VAC connect the fitted power cable conductors as follows:

- GREEN/YELLOW wire connects to Safety Ground (Earth).
- Power Line wires to vacant terminals on Fuse Block. Wires occupying the terminals on the other side of the fuse block are tagged with the designated AC input for 347 & 480VAC models.
 - BLACK wire connects to Live.
 - WHITE wire connects to Neutral.
 - 10-18AWG (5.26mm² – 0.82mm²)
- Re-attach the Fuse Block Covers.

When using 208V (two 120V phases) connect the black wire to one phase and the white wire to the other phase. For a 208V unit there will be fuses on both of the phase connections.

Technical Data

Nominal AC Supply Voltage

H6Uxxx2xxxxx	120-277V AC, 50/60Hz
H6UxxxBxxxxx	347V AC, 60Hz
H6UxxxDxxxxx	480V AC, 60Hz

Note: Electrical Specs. for Remote Power Supply versions voltage character **2, B, D** is replaced with **R, S, U** respectively.

Supply Current (nominal @ 230V)

H6UxxxKxxxxx - [45K]	1.5 A
H6UxxxNxxxxx - [60K]	1.9 A
H6UxxxRxxxxx - [70K]	2.3 A

Power consumption Wattage nominal

H6Uxxx2Kxxxxx	320 W
H6UxxxBKxxxxx	325 W
H6UxxxDKxxxxx	325 W
H6Uxxx2Nxxxxx	435 W
H6UxxxBNxxxxx	442 W
H6UxxxDNxxxxx	442 W
H6Uxxx2Rxxxxx	505 W
H6UxxxBRxxxxx	515 W
H6UxxxDRxxxxx	515 W

Operating Specs

Temperature range	-40°C to +65°C
Power factor	>0.90
ATHD	<20% @ 120-277V AC

Integrated Power Supply

Dimensions	in [cm]
Height	20.2 [51.2]
Diameter	24.0 [61.0]

Weight

Total	lbs [kg]
H6Uxxx2Kxxxxx	63 [28.6]
H6UxxxBKxxxxx	79 [35.8]
H6UxxxDKxxxxx	79 [35.8]

Wire Box

H6Uxxx2Kxxxxx	7 [3.2]
H6UxxxBKxxxxx	23 [10.4]
H6UxxxDKxxxxx	23 [10.4]

Light Engine and Power Supply

All	56 [25.4]
-----	-----------

Remote Power Supply

Dimensions – Power Supply	in [cm]
Height	20.0 [50.8]
Width	13.1 [33.3]
Depth	11.8 [30.0]

Dimensions – Light Engine

Dimensions – Light Engine	in [cm]
Height	13.1 [33.3]
Diameter	24.0 [61.0]

Weight

Wire Box/Power Supply	lbs [kg]
H6UxxxRxxxxx	40 [18.4]
H6UxxxSxxxxx	56 [25.4]
H6UxxxUxxxxx	56 [25.4]

Light Engine	lbs [kg]
All	52 [23.6]



Connections to be made using appropriately rated terminal blocks. The length of the conductors between the cord anchorage and the terminals shall be such that, should the cable or cord move out of the cord anchorage, the current-carrying conductors become taut before the earthing conductor.

Torque all 3 wiring box locking nuts to 20 lb-ft [27 N-m].

Restore power and verify operation.

Controls Installation:

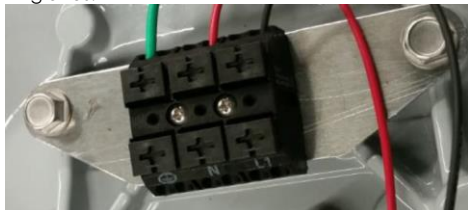
- Slip the bracket in-between the light engine fins and secure the bracket down with the J-hook and wing nut.



- Route the cable through the cable gland that is attached to the wire box.
- Disconnect the four position connector coming off of the terminal block. And connect the controls cable to the 2x four position and 1x two position connectors.

Remote Power Supply Installation:

- Install Light Engine first and follow **General Mounting Information** and **Pendant Mounting Information** from the previous page.
- Connect 12-20AWG (4mm² – 0.5mm²) DC wires to the three position terminal block. Terminal block is label with DC Input +, DC Input -, and Ground. The 3/4 NPT threaded side entrances can be used for wiring as required when equipped with the appropriately sized cable glands.



- Mount the Power Supply to an appropriately sized mounting surface.
- Connect DC wires to Din rail in wire box that is label DC output. Use appropriately sized cable gland.
- Connect AC power to wirebox.

Recommended Min. AWG wire for DC connection.

Wire Size	Max. Distance
16 AWG/ 1.31mm ²	200 ft / 61 m
18 AWG/ 0.82mm ²	150 ft / 46 m
18 AWG/ 0.82mm ²	100 ft / 31 m
20 AWG/ 0.52mm ²	50 ft / 16 m

For single phase units, 120-277VAC or 347VAC or 480VAC connect the fitted power cable conductors as follows:

- GREEN/YELLOW wire connects to Safety Ground (Earth).

- Power Line wires to vacant terminals on Fuse Block. Wires occupying the terminals on the other side of the fuse block are tagged with the designated AC input for 347 & 480VAC models.

- BLACK wire connects to Live.
- WHITE wire connects to Neutral.
- 10-18AWG (5.26mm² – 0.82mm²)

- Re-attach the Fuse Block Covers.

Connections to be made using appropriately rated terminal blocks. The length of the conductors between the cord anchorage and the terminals shall be such that, should the cable or cord move out of the cord anchorage, the current-carrying conductors become taut before the earthing conductor.

Torque all 3 wiring box locking nuts to 20 lb-ft [27 N-m].

Restore power and verify operation.

Secondary Retention:

When using a safety cable for secondary retention, ensure minimum slack (no greater than 1 foot) in cable after installation. Use an appropriate support member and connect safety cable to bracket located above the light engine. Cable type, size, material, and attachment method to meet customer application and to be appropriate with all local and regional regulations.

Chemical Compatibility Guide:

The chemical compatibility data referenced in this manual was supplied by the raw material manufacturers and is intended as a general guide. The data represents the basic material properties and does not necessarily represent the performance of the final product due to manufacturing process and design variations for each final product. Chemical compatibility is highly dependent on concentration, temperature, humidity, and other environmental conditions and therefore the customer assumes responsibility for evaluation of gaseous or direct contact chemical compatibility at their site prior to product installation.

Dimming Models Only

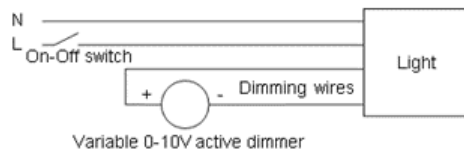
The Dialight High Bay luminaire supports variable dimming through a two wire interface. Using this interface, it is possible to reduce the light level of the luminaire, saving energy and setting the level exactly as desired.

Dimming is controlled by means of a 0-10 VDC signal (to be provided by the installer. At 10 volts, the output of the unit is 100%; at 0 volts, the output will be approximately 5%. The DC dimming voltage should not exceed 15 VDC. Increasing the voltage above 10VDC will not result in additional light output.

Violet wire connects to +, Grey wire connects to -.

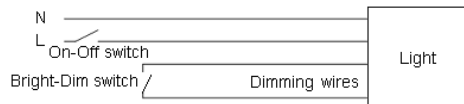
1) Variable Voltage Control

An analog 0-10V active dimmer may be connected to the two wires to control the light output of the luminaire. Multiple luminaires may be connected to the same dimmer, as long as the maximum current rating of the dimmer is not exceeded.



2) Step dimming

Simply shorting the two wires together will cause the luminaire to dim to a low level. When this is done, the luminaire will dim down to approximately 5% of its full light output, with a corresponding decrease in input power.



Maintenance

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

WARNING: Risk of electric shock. No user serviceable parts inside of luminaire. Removal of the lens will void the warranty.

Perform visual, mechanical, and electrical inspections on a regular basis. Dialight recommends checks to be made on a yearly basis. Frequency of use and environmental conditions, however should determine the frequency of checks. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B:

Recommended Practice for Electrical Equipment.

The lens should be cleaned periodically, as needed, to ensure continued photometric performance.

Clean the lens with a damp, non-abrasive, and lint-free cloth.

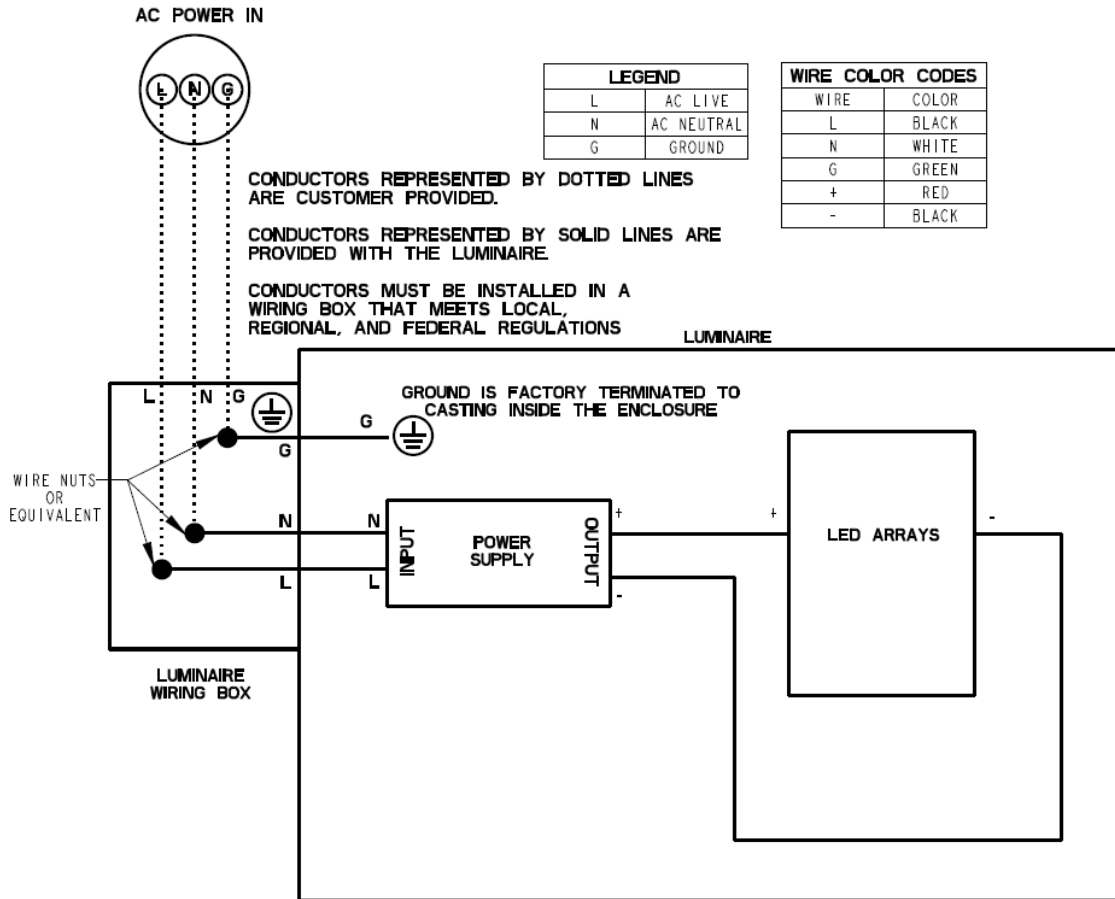
Inspect the cooling fins on the luminaire to ensure they are free of any obstructions or contamination (e.g. excessive dust build-up). Clean with a non-abrasive cloth, if needed.

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.



Wiring Diagram

WIRING DIAGRAM FOR VIGILANT HIGHBAY PREFIXED WITH "H6"



Breaker Types

Description	W.in nom	Vac min.	I.max, steady	Inrush current	Inrush current T50	10ms rating type-B	10ms rating type-C	Max Number/breaker with 20% de-rating	
	<u>W</u>		<u>A</u>	<u>A</u>	-	<u>A</u>	<u>A</u>	<u>Type-B</u>	<u>Type-C</u>
70k High Bay	499	449.1	5.13	32.1	1ms	112	160	2	2
H6UxxxxRxxxxx	483	434.7	2.62	31	1ms	112	160	5	5
	478	430.2	2.17	30.7	1ms	112	160	6	6
60K Highbay	428	385.2	4.4	7.7	1ms	112	160	3	3
H6UxxxxNxxxxx	415	373.5	2.25	14.8	1ms	112	160	6	6
	413	371.7	1.9	17.8	1ms	112	160	7	7
45k High Bay	362	325.8	3.72	23.3	1ms	112	160	3	3
H6UxxxxKxxxxx	352	316.8	1.91	22.6	1ms	112	160	7	7
	350	315	1.61	22.5	1ms	112	160	8	8

All statements, technical information, and recommendations contained herein are based on information and tests that Dialight believes to be reliable. The accuracy or completeness thereof is not guaranteed. In accordance with Dialight "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 or her intended use and assumes all risk and liability whatsoever in connection therewith.

