

INSTALLATION / WARRANTY INSTRUCTIONS

PRODUCT BRAND: PIERLITE
PRODUCT NAME: PIERLUX DALI HIGHBAY G2
PRODUCT CODE: PLHB120D4G2, PLHB120D5G2, PLHB200D4G2, PLHB200D5G2

Issue Date: 03/02/2024

Please read these installation instructions carefully before installing or maintaining this equipment. The product is designed for installation and maintenance in accordance with relevant Australian standards (AS/NZ3000), by an authorized and licensed electrician. The installation instructions were correct at the time of print. To reflect changes in technology and Australian and New Zealand standards; Pierlite reserves the right to amend the instructions without notice. Updated guidelines can be found on relevant brand web site.



1. PRODUCT SPECIFICATION:

Item code	PLHB120D4G2, PLHB120D5G2	PLHB200D4G2, PLHB200D5G2
Type of protection	Class I luminaire	
IP rating	IP65	
IK rating	IK08	
IC rating	N/A	
Nominal voltage	220V to 240Vac	
Nominal frequency	50/60 Hz	
Number of wattages per fitting	Dali dimming	
Available wattages	Refer to section 4	
Power factor	>0.9	
Surge protection rating	L-N 6KV/3KA, L-E: 6KV/3KA, N-E: 6KV/3KA Maximum impulse voltage, 10KV (where SPD installed)	
Inrush current	Cold start 100A, 520us (T width @ 10% of I peak) Measured at 100% load at 277Vac	Cold start 130A, 630us (T width @ 10% of I peak) Measured at 100% load at 277Vac
Earth leakage	<0.7mA	
Rated operating ambient temperature	-25 to +50°C	
LED lifetime	<ul style="list-style-type: none"> Reported >60000 hours(L70/B10) +50° Reported 39,000 hours (L90/B10) @ +50°C 	<ul style="list-style-type: none"> Reported >60000 hours(L70/B10) +50° Reported 36,000 hours (L90/B10) @ +50°
Colour temperature	4000K or 5000K	
Colour rendering index (CRI)	85	
LED control gear	Dali	
Available in emergency	N/A	
Emergency battery technology	N/A	
Electrical connection	Supplied with 1.7m long 3-pin flex and plug and 1.7m long 2-pin flex Dali line	
Cable type	Z	
Cable entry	N/A	
Installation type	Fixed	
Dimensions (LxWxH)	290x290x192.5mm	330x 330x192.5mm
Net weight of luminaire	2.25kg	2.75kg
Warranty	5 years	
Suitability	Indoor and outdoor	
Suitable for rough service	Yes	

Product Code#	Power (W)	Line Current (A)	Lumen Output (Lm)	CCT (K)
PLHB120D5G2	120	0.53	18900	5000K
PLHB120D4G2	120	0.53	18900	4000K
PLHB200D5G2	200	0.86	31800	5000K
PLHB200D4G2	200	0.86	31800	4000K

2. CONSUMABLES AND ACCESSORIES (ACCESSORIES TO BE PURCHASED SEPARATELY)

Product Code	Accessories	Suitable for Pierlux Sensor Highbay
PLHBBRKT	Surface mounting bracket kit 205mm x 180mm x 30mm	
HBALREFL	Anodized aluminium reflector Ø435mm x 130mm	PLHB120D4G2
HBPCREFR	Transparent polycarbonate reflector Ø410mm x 141mm	PLHB120D5G2
HBPCLENS	Transparent PC reflector Lens to suit HBPCREFR Ø413mm x 40.6mm	PLHB200D4G2
HBWG	Wireguards Ø290mm x 41mm	PLHB200D5G2
HBRODBRKT	Rod mount bracket black 275.5*239.9*218mm	

3. SERVICE & OPERATION (EMERGENCY VERSION)

Normal Operation: Maintained Emergency Operation.

Battery: Sealed **Lithium Iron Phosphate (LiFePO4)** rechargeable battery pack. As per AS/NZS 2293, it is required that the battery pack is discharged and recharged at least once every 6 months.

In case of a replacement, same brand and type of battery pack must be used. Allow 24 hours charging time before carrying out any discharge tests.

Charge Duration: 16 Hours
Discharge Duration: M2 = 2 Hours for standard emergency or M4 = 4 hours for rail/heavy industry emergency (Initial Test)

Test Switch: If manual test switch pressed, the fixture will operate from its battery supply.
Please ensure battery plug is connected to the inverter battery terminal.

Warning: All maintenance, such as battery change on this luminaire is to be changed by qualified personnel only. De-energize all supplies before maintenance.

4. DALI CONTROL GEAR: The LED driver are controllable through the DALI control system. A DALI connection is not required in a non-systemized electrical system. If DALI is not required, do not connect it.

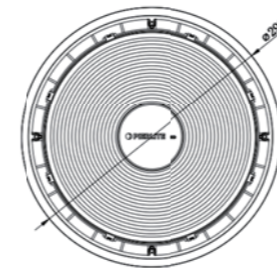
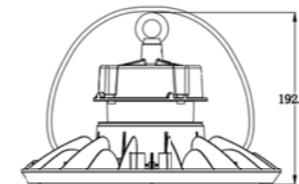
Note: When designing the DALI system please refer to the table below for the number of DALI addresses.

Control gear	Function	Number of Addresses
LED Driver	Dimming, on/off & feedback	1

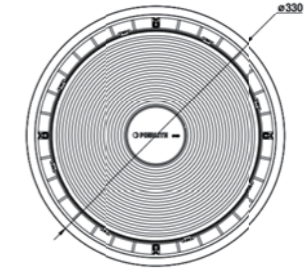
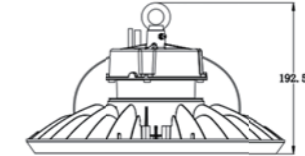
5. LINE DIAGRAMS AND DIMENSIONS

Item code	Diameter (mm)	Height (mm)	Weight in (kg)
PLHB200D4G2 PLHB200D5G2	330	192.5	2.75
PLHB120D4G2 PLHB120D5G2	290	192.5	2.25

PLHB120LS4GSH, PLHB120LS5GSH



PLHB200LS4GSH, PLHB200LS5GSH



6. INSTALLATION / GENERAL: Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

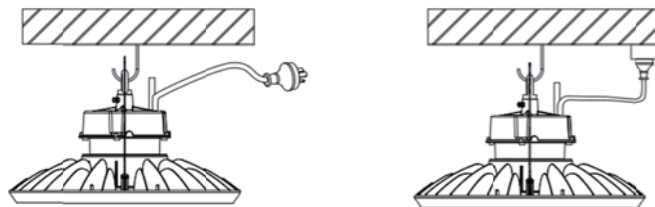
Installation:

Tools Required

- N/A

installation steps

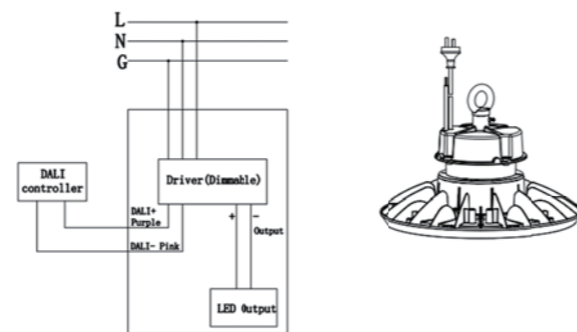
Note: The safety lanyard must be connected to a separate retention wire or chain than the luminaire suspension.



1. Hang the luminaire by the suspension ring to suitable fixed safety hook or closed link chain.

2. Plug into power socket.

Note: If there are Dali controller, please connect Dali line as next wire drawing.



DALI instruction

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

7. **IMPORTANT** - the product must be maintained and operated in accordance with the manufacturer's instructions, failure to do so may damage the product and services. It is strongly recommended that this important note be communicated to the owner and operator of the installation at the time of site commissioning. Good practice does not recommend the 24/7 use of products without the application of suitable switch cycle intervals. Furthermore, with the omission of nominated survival curves and or recommended operating hours, product design expectations provide for a continual daily usage of 6 hours for residential applications and a continual daily usage of 12 hours for commercial and industrial applications. All products must be thoroughly cleaned on a regular basis at intervals that reflect in the installation environment, ensuring the optical performance, together with the electrical, mechanical, and structural integrity as designed, is maintained throughout the service life of the product.

8. **APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".



9. **STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

10. **APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation installations. Installation environments outside these conditions are not recommended.

11. MAINTENANCE:

(a) The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals.

(b) **Lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Pierlite is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components.

(c) **For products supplied with glass visors or covers,** do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated, and the damaged glass replaced by a professional installer immediately.

(d) **Cables or cords,** if any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a qualified person or manufactures service agent.

For Z type attachments to luminaire, cord cannot be replaced if damaged, the luminaire shall be removed from service.

Flex cord types

- X: A specially prepared flexible cable or cord, may also include a part of the luminaire and only available from manufacture.
- Y: Attachment may be used either with ordinary or special flexible cable or cord.
- Z: Attachment of cable or cord that cannot be replaced without damage to luminaire

WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:

Warranty period - The above components are provided with a warranty (refer to product specifications for details) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause.

Warranty reference - The warranty reference date commences from the date of purchase.

Warranty point of contact – Pierlite, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 contact – Pierlite After Sales Support.

Warranty claim procedure – For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
3. Upon receipt of the goods, Pierlite will review the claim and if found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense.

Consumer Contracts - The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.*

Limitation of Liability – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss).

Terms of Sale – these warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the warranty components.

ACCESSORIES (TO BE PURCHASED SEPARATELY – Line drawings installation could also be found in the individual accessories pack).

<p>Ø410 141 41</p> <p>X1 PC</p>	<p>PLHB120D4G2 PLHB120D5G2</p>	<p>Screws T1M4X6 X8 PCS BRK For REF X4 PCS</p>				<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
	<p>HBPCREFR</p>	<p>Screws T1M4X6 X4 PCS</p>		<p>Install to PLHB200D4G2 or PLHB200D5G2</p>		<p>Install to PLHB200D4G2 or PLHB200D5G2</p>

<p>Ø410 141 41</p> <p>X1 PC</p>	<p>PLHB120D4G2 PLHB120D5G2</p>	<p>Screws T1M4X6 X8 PCS BRK For REF X4 PCS</p>				<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
<p>413 40.6 41</p> <p>X1 PC</p> <p>LENS</p>	<p>PLHB200D4G2 PLHB200D5G2</p>	<p>Screws T1M4X6 X4 PCS Spring X1 PCS</p>				<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
<p>HBPCLENS</p>	<p>Screws T1M4X6 X4 PCS Spring X1 PCS</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	

<p>Ø435 130 41</p> <p>X1 PC</p>	<p>PLHB120D4G2 PLHB120D5G2</p>	<p>Screws T1M4X6 X8 PCS BRK For REF X4 PCS</p>				<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
	<p>HBALREFL</p>	<p>Screws T1M4X6 X4 PCS</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>
<p>Ø290 205 41</p> <p>X1 PC</p>	<p>PLHB120D4G2 PLHB120D5G2</p>	<p>Screws T1M4X6 X8 PCS BRK For REF X4 PCS</p>				<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
	<p>HBWG</p>	<p>Screws T1M4X6 X4 PCS</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>

<p>205 180 41</p> <p>X1 PC PLHBRRKT</p>	<p>PLHB120D4G2 PLHB120D5G2 PLHB200D4G2 PLHB200D5G2</p>	<p>Bracket base X2 PCS Screw T1M5X10 X8 PCS Spring washer M5 X8 PCS Washer M5 X8 PCS</p>			<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
<p>HBROBRKT</p>	<p>Screws T1M4X6 X4 PCS</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>

<p>205 180 41</p> <p>X1 PC PLHBRRKT</p>	<p>PLHB120D4G2 PLHB120D5G2 PLHB200D4G2 PLHB200D5G2</p>	<p>Bracket base X2 PCS Screw T1M5X10 X8 PCS Spring washer M5 X8 PCS Washer M5 X8 PCS</p>			<p>Install to PLHB120D4G2 or PLHB120D5G2</p>
<p>HBROBRKT</p>	<p>Screws T1M4X6 X4 PCS</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>	<p>Install to PLHB200D4G2 or PLHB200D5G2</p>