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INSTALLATION / WARRANTY INSTRUCTIONS
PRODUCT BRAND: PIERLITE
PRODUCT NAME: MineMaster SB - Conveyer/ Area Light
PRODUCT CODE: Please see point

Issue Date: 23/06/2022

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 authorised 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:

Type of protection	Class I luminaire
Type of protection	IP66
IK rating	IK10
IC Rating	N/A
Nominal voltage	220V to 264V ~
Nominal frequency	50/60 Hz
Number of wattages per fitting	6 per fitting refer 6 selections
Available wattages	Refer to section 4
Power factor	>0.9
Surge protection rating	L-N 10KV/5KA, L-E: 10KV/5KA, N-E: 10KV/5KA Maximum impulse voltage, 10KV (where installed)
Inrush current	Cold start 10A(twidth=46µs Measured at 50% Ipeak) at 230VAC
Earth leakage	0.15mA
Rated operating ambient temperature	0 to +50°C
LED lifetime	• Rated 84,000 hours (L70/B10) +50°C • Calculated >211,000 hours (L70/B10) @ +50°C • Rated 57,000 hours (L90/B10) +50°C • Calculated 57,000 hours (L90/B10) @ +50°C
Emergency battery design life	Lithium Iron Phosphate battery – 10 years
Colour temperature	4000K and PC amber Leon, adding PC amber
Colour rendering index (CRI)	80
LED control gear	DALI / Lumen select
Available in emergency	Yes, DALI and self-testing
Emergency battery technology	2-hour Lithium Iron Phosphate (LiFePO4)
Electrical connection	4.5m long 2c+E 2.5mm² heavy duty orange circular 1KV UV protected via 6.0mm² terminal block
Cable entry	1x 20mm – cable diameter size 8mm – 13.5mm +/- 0.5mm
Installation type	27mm to 34mm Ø Spigot or surface mounted with surface mounted kit
Dimensions (LxWxH)	Refer to table in section 6
Net weight of luminaire	Refer to table in section 6
Warranty	Luminaire: 5 years Emergency Battery: 4 years
Suitability	Indoor and outdoor
Suitable for rough service	Yes

2. CONSUMABLES

Description	QTY Required Per Fitting	Brand	Component Part Number	Dimensions (LxWxH) mm
2-amp fuse	1	Glass fuse	TDC180-2A	20 x 5 x 5
2-hour duration 6.4V 3.2AH Side by side pack	1	Pierlite	BATPK3200/2L21	70 x 53 x 31

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.

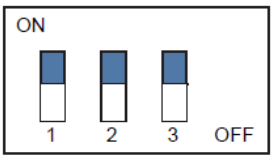
Warning: All maintenance, such as battery change on this luminaire is to be changed by qualified personnel only. De-energize all supplies before maintenance.

4. LUMEN SELECT TABLE (contractor selectable output)
Pierlite's lumen select products allow all licensed electricians to purchase one luminaire that can be set as multiple fixed wattages/fixed lumen outputs. By offering this capability within one fitting it provides the following benefits

- One fitting multiple fixed outputs
- Less stocked items
- Easy to change settings
- IES files available for all available for wattages shown in the above table
- No control system or software required to change fixed output

The lumen output can be altered by changing the driver dip switches from the factory default setting to the driver milli-amps as specified in the table. Dip switches are located on the control gear tray.

Product Code#	Power (W)	Emergency Wattage (W)	Line Current (A)	Lumen Output (Lm)	Dip Switch Settings Refer section 5			CCT (K)	Optics	Emergency
					1	2	3			
MRASLSD4T24	70	N/A	0.3	9,717	Off	Off	Off	4000K	T2	No
	60		0.26	8,630	On	Off	Off			
	50		0.22	7,332	Off	On	Off			
	40		0.18	5,947	Off	Off	On			
	31		0.15	4,766	On	Off	On			
	27		0.13	4,216	Off	On	On			
MRASLSDAT24	72	N/A	0.3	6,417	Off	Off	Off	Amber	T2	No
	65		0.26	5,913	On	Off	Off			
	55		0.22	5,078	Off	On	Off			
	45		0.18	4,219	Off	Off	On			
	36		0.15	3,422	On	Off	On			
	33		0.13	3,047	Off	On	On			
MRASLSD4T54	72	N/A	0.3	10,380	Off	Off	Off	4000K	T5	No
	62		0.26	9,041	On	Off	Off			
	53		0.22	7,664	Off	On	Off			
	43		0.18	6,294	Off	Off	On			
	35		0.15	5,083	On	Off	On			
	32		0.13	4,518	Off	On	On			
MRASLSD4M2T24	70	4	0.32	9,717	Off	Off	Off	4000K	T2	Yes
	60		0.28	8,630	On	Off	Off			
	50		0.24	7,332	Off	On	Off			
	40		0.2	5,947	Off	Off	On			
	31		0.17	4,766	On	Off	On			
	27		0.16	4,216	Off	On	On			
MRASLSDAM2T24	70	4	0.32	6,417	Off	Off	Off	Amber	T2	Yes
	60		0.28	5,913	On	Off	Off			
	50		0.24	5,078	Off	On	Off			
	40		0.2	4,219	Off	Off	On			
	31		0.17	3,422	On	Off	On			
	27		0.16	3,047	Off	On	On			
MRASLSD4M2T54	70	4	0.32	10,380	Off	Off	Off	4000K	T5	Yes
	60		0.28	9,041	On	Off	Off			
	50		0.24	7,664	Off	On	Off			
	40		0.2	6,294	Off	Off	On			
	31		0.17	5,083	On	Off	On			
	27		0.16	4,518	Off	On	On			



Note: *Make sure to disconnect power before changing a DIP switch on the luminaries. Setting the DIP switches according to the above ONLY. All other settings may affect the luminaries' performance. After setting, secure the silicon cover over the DIP switches.*

5. DALI CONTROL GEAR: The LED driver and emergency control gear are both controllable through a certified DALI 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
Emergency Inverter	Testing & Reporting	1

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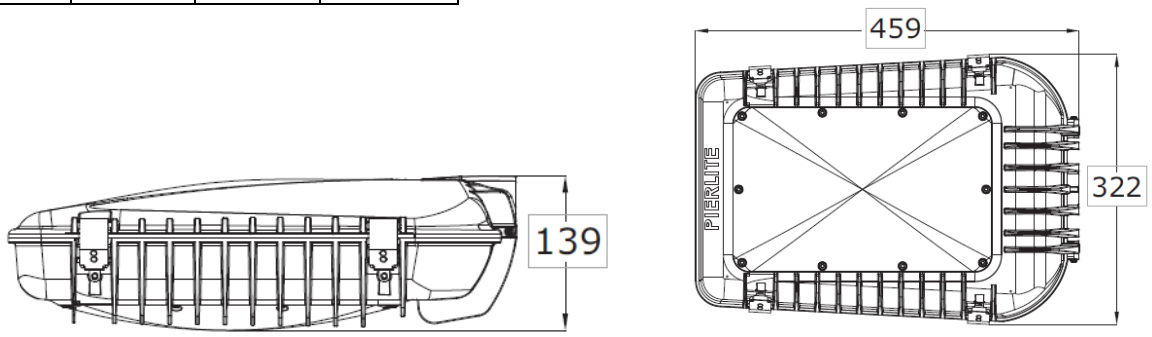
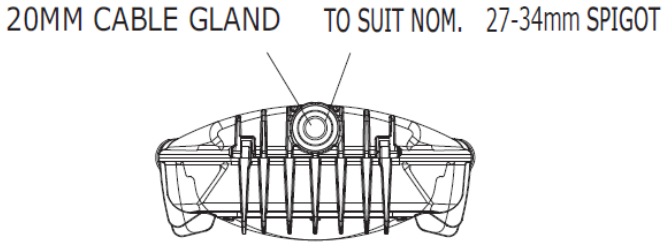
6. LINE DIAGRAMS AND DIMENSIONS

Length (mm)	Width (mm)	Height (mm)	Weight in (kg)
459	322	139	9





7. 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

- **T25 Torx screw bit of drill bit**
- **13mm spanner / socket**
- **Flat blade screwdriver**

Installation steps for Spigot mount

1. Loosen Torx screws on clips with T25 Torx screw bit
2. Place flat blade screwdriver under clips to open
3. Place fingers in between the top and bottom to push retainer clip back allowing light module to open
4. Unscrew spigot bolts enough to slide fitting over spigot
5. Slide cable through pole and fitting over spigot (27mm to 34mmØ). Ensure dust cover is tight around pole and tight against the luminaire
6. Ensure fitting is straight on pole ensuring it is level when the pole is upright
7. Tighten spigot bolts using 13mm spanner / rachet and socket to 14NM to 18NM
8. If installing emergency fitting connect the battery to the inverter via plugs
9. Set the lighting level to the desired lumen output via the lumen select switches. Refer to section 4
10. Ensure fuse and connection cable between lighting module and spigot mount is secure, this may have loosened while in freight
11. Close lighting module to spigot mount and close clips
12. Tighten clip screws using the T25 Torx screw bit
13. Ensure supply is isolated as per the Australian standard and your SWMS / site requirements
14. Connect the cable into junction box / weatherproof plug
15. Ensure IP rating of installation is at minimum of the specified IP rating of the luminaire
16. Test circuit per Australian standards and your SWMS / site requirements
17. Energies luminaire

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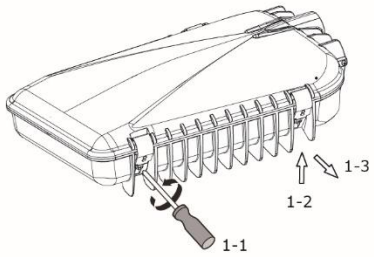
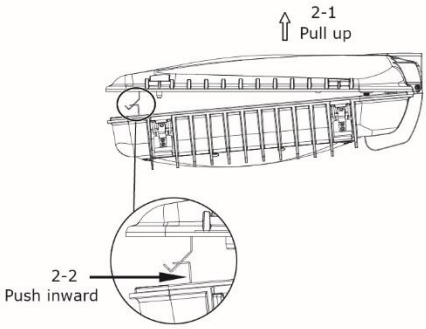
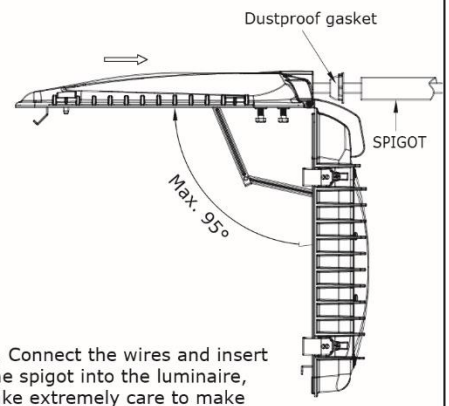
Installation:



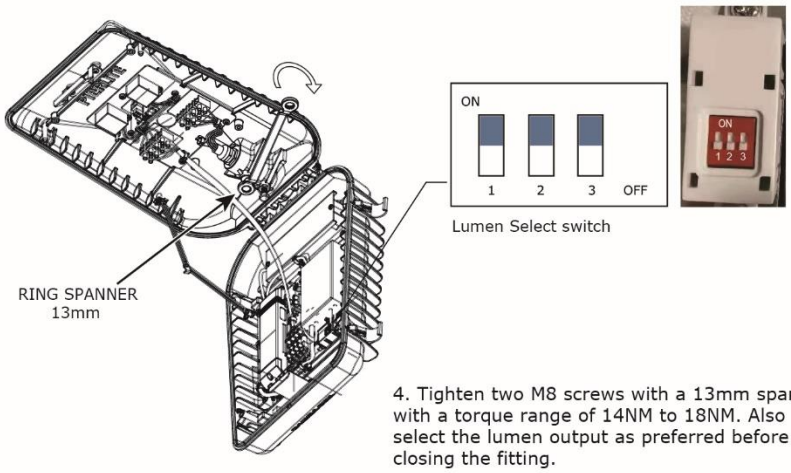
1. Unfasten 4 secure screws on the latches and release 4 latches by using a flat head screw driver.



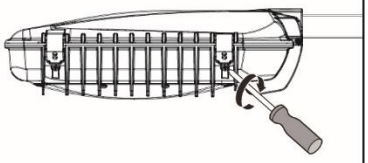
2. Pull the upper cover up by about 5°and push the toggle bracket inward to release the lower body as shown above.



3. Connect the wires and insert the spigot into the luminaire, take extremely care to make sure silicon sleeve is in proper location.



4. Tighten two M8 screws with a 13mm spanner with a torque range of 14NM to 18NM. Also select the lumen output as preferred before closing the fitting.



5.Make sure the fitting is closed properly and sitting flat on the gasket, close 4 latches and fasten 4 secure screws again.

Installation Steps for Surface mount (surface mount kits is sold separately as an accessory)

Tools Required

- **T25 Torx screw bit of drill bit**
- **Flat blade screwdriver**
- **PH2 Philip head screwdriver**

1. Loosen Torx screws on clips with T25 Torx screw bit
2. Place flat blade screwdriver under clips to open
3. Place fingers in between the top and bottom to push retainer clip back allowing light module to open
4. Open the fitting, cut off cable tie and unplug the quick connector
5. Unscrew hanging support bracket and trunnion screws
6. Replace the spigot mount cover with surface mount cover, drilling positions are shown in below
7. Screw 2x trunnion screws back and then screw the hanging bracket to surface mount cover.
8. Plug in quick connector and add another cable tie to the connector cable and tighten it
9. If installing emergency fitting connect the battery to the inverter via plugs
10. Set the lighting level to the desired lumen output via the lumen select switches. Refer to section 4
11. Ensure fuse and connection cable between lighting module and spigot mount is secure, this may have loosened while in freight
12. Install the light fitting to the ceiling
13. Connect the power cable to the terminal block, wire the lighting fitting according to AS3000
14. Close lighting module toward to surface mount, hook on support bracket first.
15. Align the light module and surface mount cover to make sure gasket is sit in proper position
16. Lift up the module and close the clips
17. Tighten clip screws using the T25 Torx screw bit
18. Ensure supply is isolated as per the Australian standard and your SWMS / site requirements
19. Ensure IP rating of installation is at minimum of the specified IP rating of the luminaire
20. Test circuit per Australian standards and your SWMS / site requirements
21. Energies luminaire

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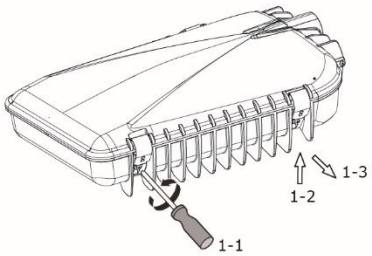
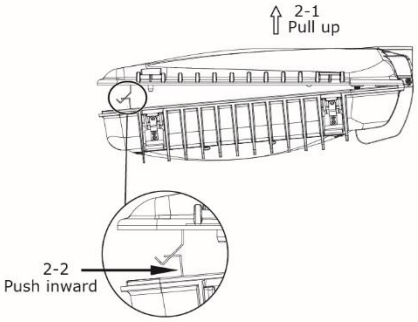
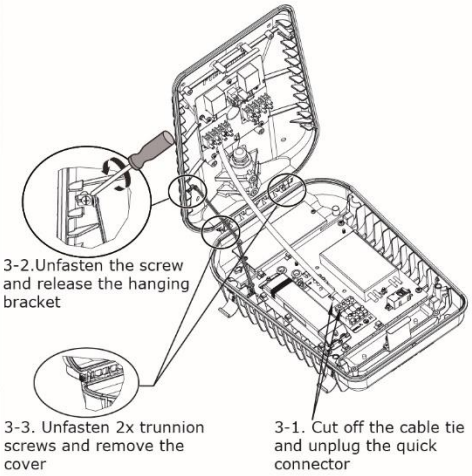
Installation of surface Mount Version



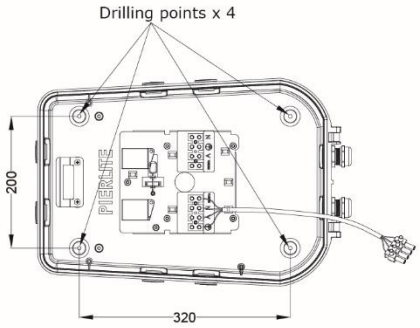
1. Unfasten 4 secure screws on the latches and release 4 latches by using a flat head screw driver.



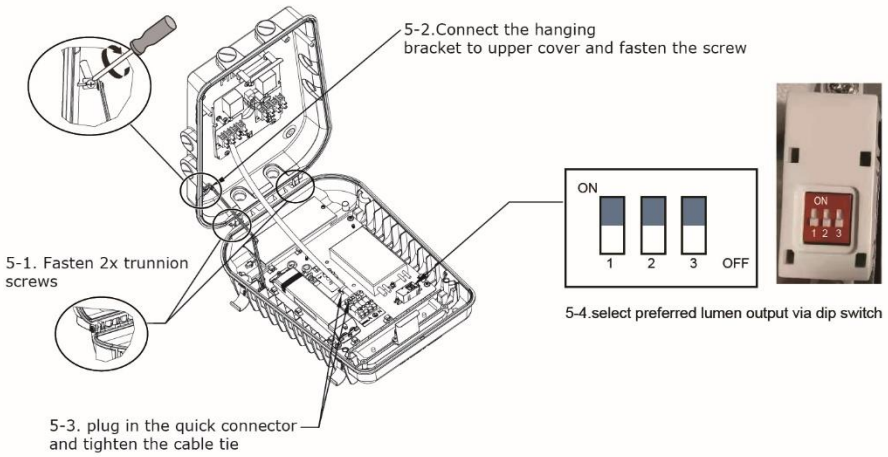
2. Pull the upper cover up by about 5°and push the toggle bracket inward to release the lower body as shown above.



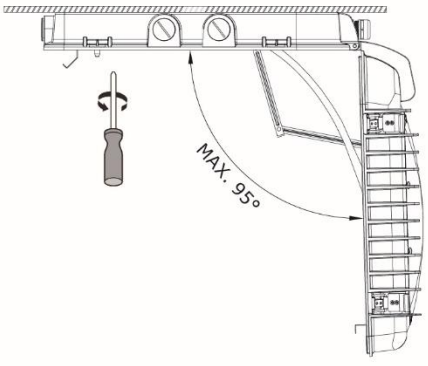
3.Remove spigot mount cover



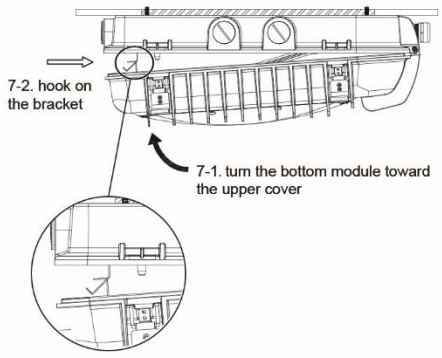
4. Drilling position is shown as per above picture.



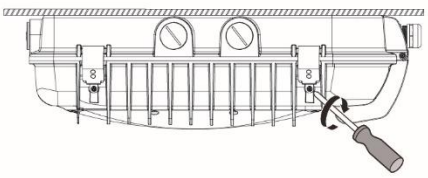
5.Assemble the surface mount cover and select the preferred lumen output, Also select the lumen output as preferred before closing the fitting.



6. Mount the fitting to the ceiling properly and wire the fitting according to AS/NZS 3000, for Emergency products, please make sure the battery connector is connected.



7. Lift the bottom module gently to the position shown on the picture, hook on the bracket first, and then align the bottom module with upper cover.



8. Close the fitting carefully, make sure gasket is sealed properly, and then close 4 latches and fasten 4 security screws.

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 or 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

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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.

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".

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

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.

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) Battery (where provided): The battery is designed with a rated average battery design life in standby mode and is supported with a standard warranty (refer to product specifications for details); conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site.
(d) 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.
(e) Cables or chords, If any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a 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.