

## INSTALLATION / WARRANTY INSTRUCTIONS

Issue Date: 22-03-2021

### STELLAR SURFACE LOWBAY GEN2 (acrylic lens)



**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), THESE INSTRUCTIONS AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN. THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; PIERLITE RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON RELEVANT BRAND WEB SITE.**

**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. PIERLITE IS NOT RESPONSIBLE FOR ANY PRODUCT NOT MAINTAINED IN ACCORDANCE WITH THE RECOMMENDED PROCEDURES. ALL PRODUCTS SHOULD BE THOROUGHLY CLEANED ON A REGULAR BASIS TO ENSURE THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



LUMEN SELECT™



## 1. PRODUCT SPECIFICATION:

Type of Protection	Class I Luminaire
IP Rating	IP65 Indoor use
IK Rating	IK07 PMMA, IK10 PC
Nominal Voltage	220-240V
Power factor	0.98
Nominal Freq. (Hz)	50 Hz
Inrush current	160W lumen select - Cold start 43.6A (twidth=520µs measured at 50% Ipeak)
	240W DALI - Cold start 20.2A (twidth=108µs measured at 50% Ipeak);
Earth Leakage	0.26mA (160W lumen select) 0.38mA (240W DALI2)
Rated operating ambient temperature	0°C to +40°C
Rated Average life	L70@ 72,000hrs
Body material	Aluminum body
Finish	White powder coated
Installation orientation	Surface - ceiling
Designed application	Industrial
Electrical connection	Direct into large terminal block
Warranty	5 years
Dimensions	600x600x187mm
Net Weight of luminaire	9.8kg

## 2. ELECTRICAL CHARACTERISTICS

SKU to Order	System Wattage (W)	Control Gear	Line Current (A)	Power Factor	Colour Temperature
STSLSE4A / STSLSE4P	80W	Lumen Select	0.355	0.95	4000K
	120W		0.512	0.97	
	160W		0.672	0.98	
STS240D4A / STS240D4P	240W	DALI	0.974	0.98	4000K
STSLSE5A / STSLSE5P	80W	Lumen Select	0.355	0.95	5000K
	120W		0.512	0.97	
	160W		0.672	0.98	
STS240D5A / STS240D5P	240W	DALI	0.974	0.98	5000K

If a lower wattage DALI luminaire is required, the output of the DALI driver can be programmed using a DALI control system. The table below provides the driver output current information to program the lower wattage/lumen output, the IES files can be downloaded at [Pierlite.com.au](http://Pierlite.com.au)

SKU	Wattage	Power Factor	Driver Output Current	Lumen Output	Factory Default
STS240D4A / STS240D4P / STS240D5A / STS240D5P	60W	0.82	552mA	8283lm	
	80W	0.88	737mA	11275lm	
	120W	0.94	1125mA	17184lm	
	160W	0.96	1509mA	21668lm	
	240W	0.98	2140mA	29383lm	Default

**3. DALI 2 CONTROL GEAR:** The LED driver and emergency control gear are controllable through an industry standard DALI. A DALI connection is not required in a non-systemized electrical system, if DALI is not required you do not need to connect it.

**Note:** when designing the DALI system this fitting accounts for 1 DALI address.

**4. 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 all current AS/NZS60598 "Luminaires, general requirements and tests".

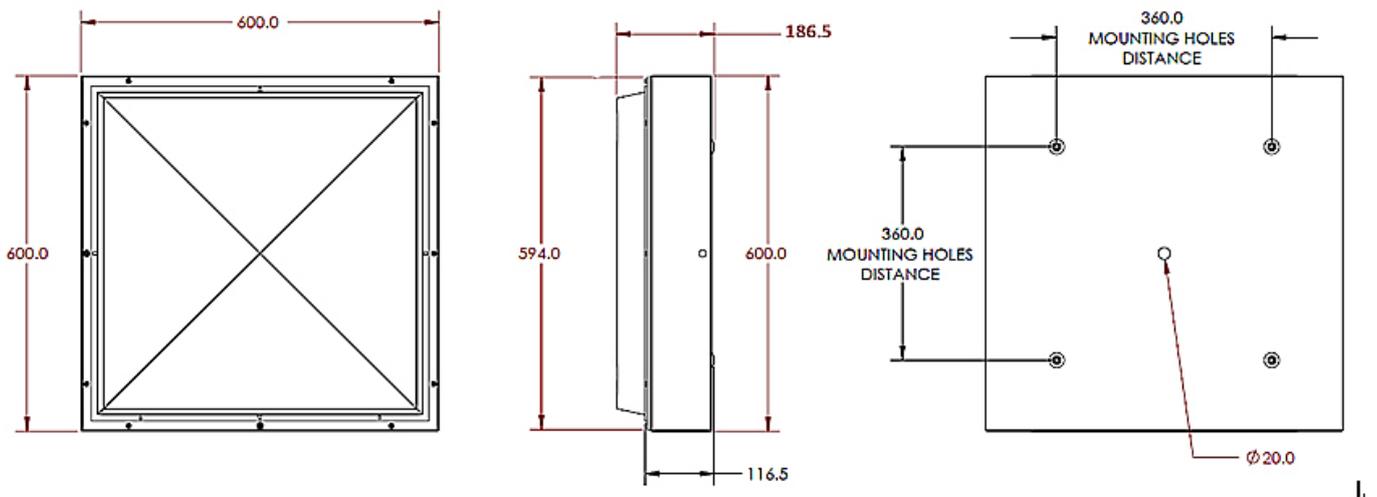
**5. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**6. 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.

**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 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: please refer to last page.

## 8. Line Diagrams



## 9. 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.

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

**Warranty period** - The above components are provided with a warranty of **Five (5) years** 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 Pty Ltd, 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. Installation step:

## INSTALLATION / WARRANTY INSTRUCTIONS

PRODUCT BRAND: PIERLITE

PRODUCT NAME: Stellar Recessed Lowbay Gen2

PRODUCT CODE: Please see point

Issue Date: 02/06/2022

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	IP65
IK rating	IK07 (PMMA)
Nominal voltage	220V to 240V ~
Nominal frequency	50/60 Hz
Number of wattages per fitting	Refer to section 2
Available wattages	Refer to section 2
Power factor	>0.8 to >9
Surge protection rating	L-N 6KA, L-E: 10KA, N-E: 10KA Maximum impulse voltage, 10KV (where installed)
Inrush current	<b>160W</b> - Cold start 43.6A (width=520µs) Measured at 50% Ipeak) at 230VAC  <b>240W</b> - Cold start 20.2A (width=108µs) Measured at 50% Ipeak) at 230VAC
Earth leakage	<b>160W</b> (Lumen Select) 0.26mA <b>240W</b> (DALI2) 0.38mA
Rated operating ambient temperature	0 to +50°C
LED lifetime	<ul style="list-style-type: none"> <li>Rated &gt;72,000 hours (L70/B10) +50°C</li> <li>Calculated &gt;211,000 hours (L70/B10) @ +50°C</li> <li>Rated &gt;50,000 hours (L90/B10) +25°C</li> <li>Calculated &gt;50,000 hours (L90/B10) @ +25°C</li> </ul>
Colour temperature	4000K or 5000K
Colour rendering index (CRI)	80
LED control gear	Lumen Select or DALI2
Cable entry	1x 20mm – cable diameter size 6mm – 12mm +/- 0.5mm
Installation type	Recessed – for insulated sandwich panels (Bondor) or
Dimensions (LxWxH)	Refer to table in section 4
Net weight of luminaire	Refer to table in section 4
Warranty	5 year
Suitability	Indoor and outdoor. Not suitable for freezers or cool rooms.

### 2. LUMEN SELECT TABLE (contractor selectable output) 160W only

Pierlite's lumen select products allows 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 switch from the factory default setting as specified in the table. The switch is located beside the LED board inside the lowbay, access is via the removal of the Diffuser.

SKU to Order	System Wattage (W)	Control Gear	Line Current (A)	Power Factor	Colour Temperature
STRLSE4A	80W	Lumen Select (Non DALI)	0.355	0.95	4000K
	120W		0.512	0.97	
	160W		0.672	0.98	

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

**DALI2 CONTROL GEAR, 240W version only**

The LED driver and emergency control gear are controllable through an industry standard DALI. A DALI connection is not required in a non-systemized electrical system if DALI is not required you do not need to connect it.

**Note:** when designing the DALI system this fitting accounts for 1 DALI address.

If a lower wattage DALI luminaire is required, the output of the DALI driver can be programmed using a DALI control system. The table below provides the driver output current information to program the lower wattage/lumen output, the IES files can be downloaded at [Pierlite.com.au](http://Pierlite.com.au)

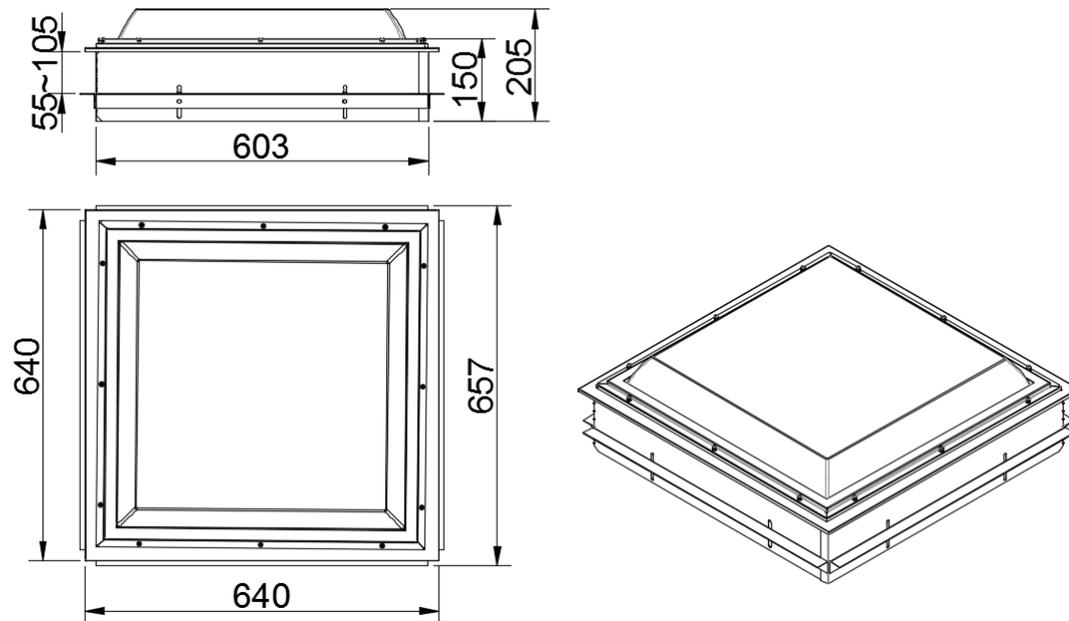
SKU	Wattage	Power Factor	Colour Temperature	Driver Output Current	Factory Default
STR240D4A	60W	0.82	4000K	552mA	
	80W	0.88		737mA	
	120W	0.94		1125mA	
	160W	0.96		1509mA	
	240W	0.98		2140mA	Default

**4. LINE DIAGRAMS AND DIMENSIONS**

Length (mm)	Width (mm)	Height (mm)	Weight in (kg)
640	640	305	11.2

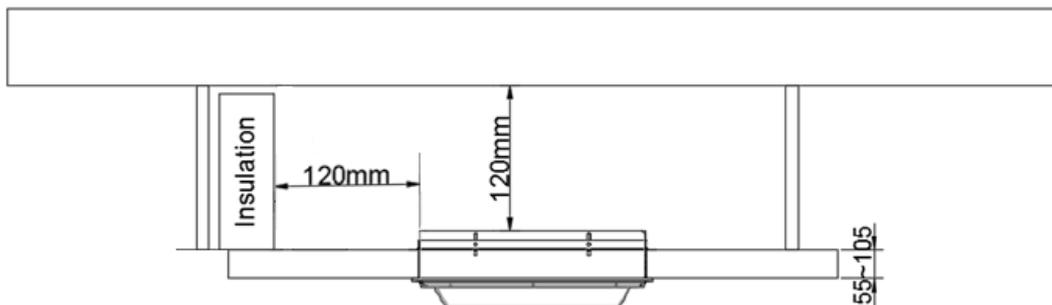
**Cutout Size**

Length (mm)	Width (mm)	Ceiling Thickness Height (mm)
603	603	55 to 105



**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 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 Requirements – air flow**



**Note:** Distance between driver and building element 0mm.

**WARNING- RISK OF OVERHEATING OR FIRE IF THE CLEARANCE DISTANCE ARE COMPROMISED.**

**DANGER — RISK OF FIRE**

**– SHALL NOT BE INSTALLED IN DOMESTIC PREMISES**

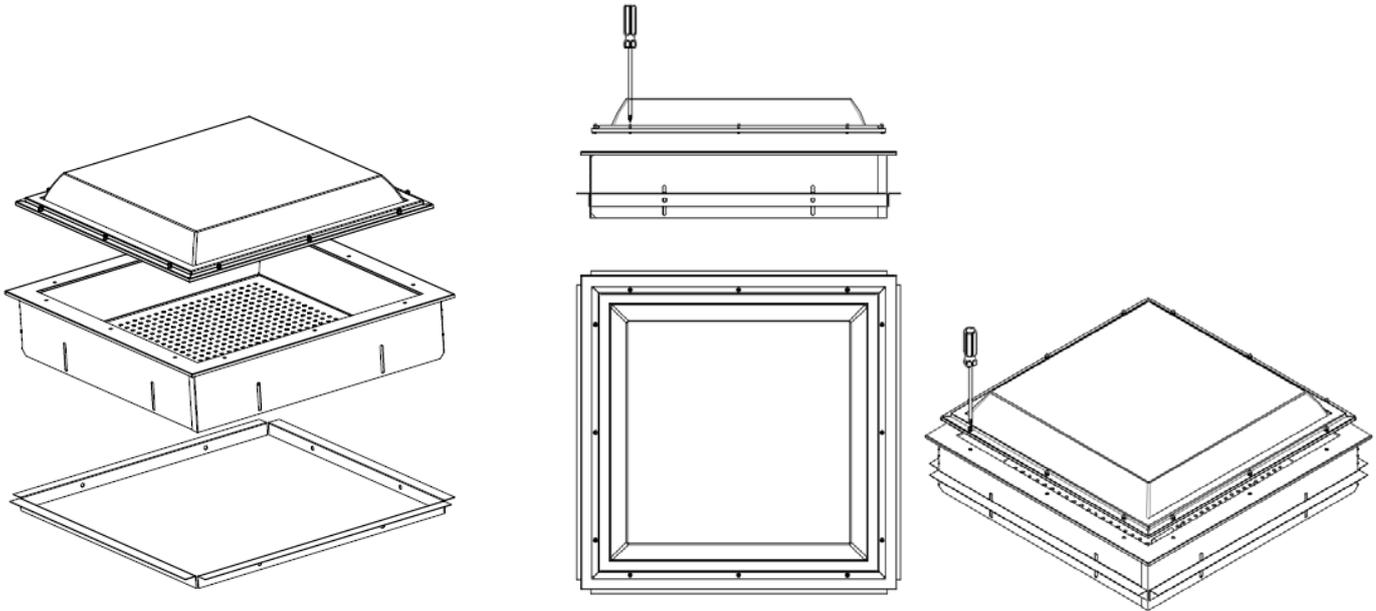
- (a) The minimum distance from the top of the luminaire to any normally flammable building element is 120 mm.
- (b) The minimum distance from the top of the luminaire to any building insulation is 120mm.
- (c) The minimum distance from the side of the luminaire to any normally flammable building element is 20 mm.
- (d) The minimum distance from the side of the luminaire to any building insulation is 20 mm.

**Warning: The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.**

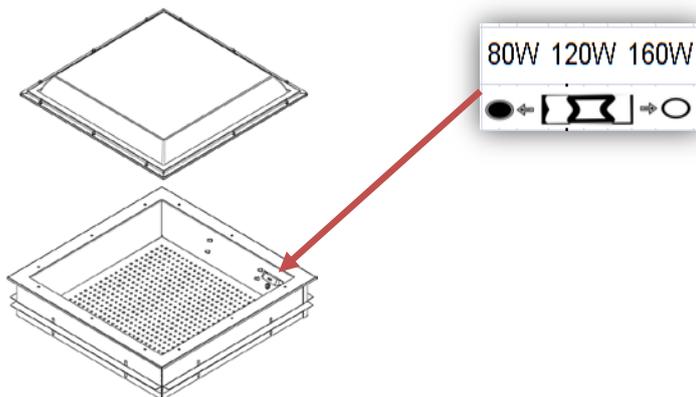
**Recessed Stellar Installation.**

**This step only applicable to the power selection via DIP switches**

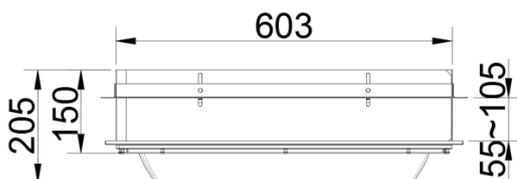
1. Remove the diffuser kit by using a PH2 screwdriver and remove it from the body.



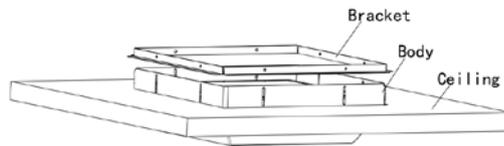
2. As photo shown below, you will find the DIP switches setting, choose power as per your requirement. (Just for NON-DIM version). Put the diffuser kit back when completed selection, and set the torque to 1.2Nm Max when tightening screws



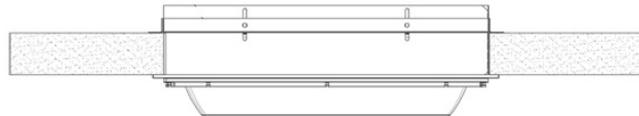
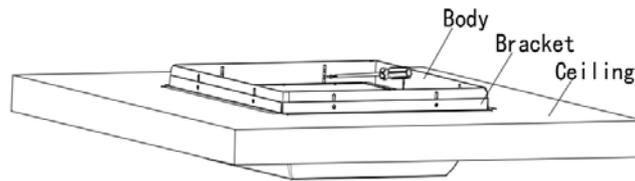
3. Determine where you want to install according to the drawing below



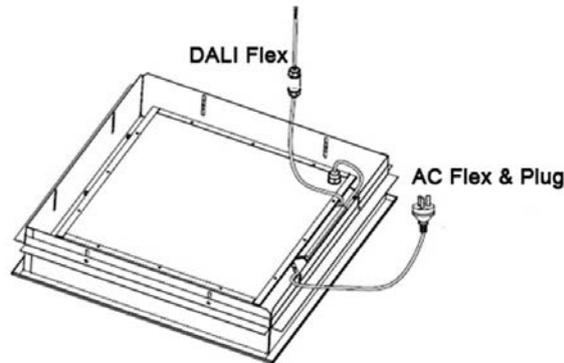
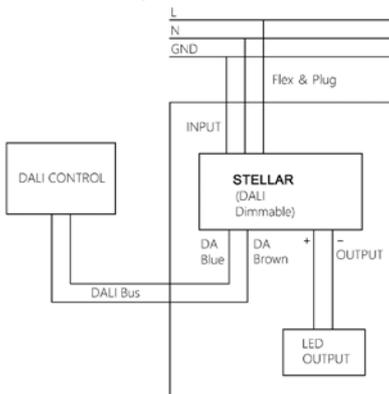
4. First remove the bracket from the body, and then insert the housing into the ceiling hole.



5. Put the bracket back and fix it on the housing with screws and nuts, get the lamp stuck in the ceiling.



6. Wiring, just for DALI version.



**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 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

The flex cord of this fitting is type Y.

**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.