

INSTALLATION / WARRANTY INSTRUCTIONS

Issue Date: 25-05-2021

Cellite Raw Gen2 - 4FT



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 | IP54 |
| IK rating | IK10 |
| Nominal voltage | 240V |
| Nominal frequency | 50/60Hz |
| Power factor | >0.8 to >0.9 |
| Inrush current | Cold start 2A(twidth=860µs measured at 50% Ipeak) at 230VAC |
| Earth leakage | 0.3mA |
| Rated operating ambient temperature | 0 to +40°C |
| LED lifetime (L70/B10) rated | >72,000 hours |
| Colour rendering index (CRI) | 80 |
| LED control gear | DALI |
| Available in emergency | Yes, DALI and self-testing |
| Emergency battery technology | 4-hour Lithium Iron Phosphate (LiFePO4) |
| Installation orientation | Recessed |

2. CONSUMABLES

| Description | QTY Required Per Fitting | Brand | Component Part Number | Dimensions (LxWxH) mm |
|---|--------------------------|----------|-----------------------|-----------------------|
| 4 hour Lithium Iron Phosphate (LiFePO4) | 1 | Pierlite | DGLCEM6400/2L22 | 135x55x30 |

3. 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".



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

5. 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.

6. 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: 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.

8. DALI CONTROL GEAR: The LED driver and emergency control gear are both 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 |
| Emergency Inverter | Testing & Reporting | 1 |

7. ELECTRICAL CHARACTERISTICS

| SKU to Order | Selectable Wattages by Dip Switches (W) | Line Current (A) | Lumen Output | CCT | Driver Settings (mA) | Emergency | Night light | Factory Default Setting |
|--|---|------------------|--------------|-----|----------------------|-----------|-------------|-------------------------|
| CRWLS4D4 | 63 | 0.258 | 7247 | 4K | 1400 | No | No | |
| | 53 | 0.221 | 6189 | | 1150 | | | |
| | 37 | 0.169 | 4509 | | 850 | | | Yes |
| | 30 | 0.148 | 3746 | | 700 | | | |
| | 22 | 0.108 | 2714 | | 500 | | | |
| CRWLS4D4M4 | 63 | 0.278 | 7247 | 4K | 1400 | Yes | No | |
| | 53 | 0.242 | 6189 | | 1150 | | | |
| | 37 | 0.19 | 4509 | | 850 | | | Yes |
| | 30 | 0.169 | 3746 | | 700 | | | |
| | 22 | 0.129 | 2714 | | 500 | | | |
| CRWLS4D4N (center nightlight) / CRWLS4D4NE (end nightlight) | 63 | 0.276 | 7247 | 4K | 1400 | No | Yes | |
| | 53 | 0.239 | 6189 | | 1150 | | | |
| | 37 | 0.188 | 4509 | | 850 | | | Yes |
| | 30 | 0.168 | 3746 | | 700 | | | |
| | 22 | 0.128 | 2714 | | 500 | | | |

9. LINE DIAGRAMS AND DIMENSIONS

| Fitting Size | Type of Mounting | Length (mm) | Width (mm) | Height (mm) | Ceiling Cutout (mm) | Bracket Required |
|--------------|----------------------|-------------|------------|-------------|-------------------------------------|--------------------------------|
| 4ft | Concrete | 1318 | 343 | 98 | Must be used with Pierlite Cel skin | CRW4CSKIN (ordered separately) |
| | Plaster with Bracket | 1318 | 410 | 127 | 1285 x 310mm | Supplied with luminaire |
| 2ft | Concrete | 706 | 343 | 98 | Must be used with Pierlite Cel skin | CRW2CSKIN (ordered separately) |
| | Plaster with Bracket | 706 | 410 | 127 | 675 x 310mm | Supplied with luminaire |



10. LUMEN SELECT (contractor selectable output)

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 below table
- No control system or software required to change fixed output

The Raw luminaire has been factory set to the default level listed in the below table, if a different wattage/lumen output is required the licensed electrician can easily change the driver dip switches to the settings shown in the below table

| System Wattage (W) | Driver Settings (mA) | Lumen Output (lm) | Driver Dip Switch Settings |
|--------------------------------------|----------------------|-------------------|----------------------------|
| 63W | 1400 | 7247 | |
| 53W | 1150 | 6189 | |
| 37W (factory default setting) | 850 | 4509 | |
| 30W | 700 | 3746 | |
| 22W | 500 | 2714 | |

11. 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:

- a) Isolate the supply circuit as per the Australian standard and your SWMS.
- b) Remove both the diffuser frame and the gear tray using a hex head and place in a safe location to ensure the product does not get damaged while the housing is being installed.
- c) Install the housing with the selected mounted system.
- d) Connect electrical cables as specified by all Australian and New Zealand standards, must be installed by a licensed electrician. Ensure the earth is connected.

Non-emergency luminaire electrical connections

- a. Connect earth into E or terminal
- b. Connect Neutral into N terminal
- c. Connect active into A terminal

Night light luminaire electrical connections

- a. Connect earth into E or terminal
- b. Connect Neutral into N terminal (shared between Night light and Mains lighting)
- c. Connect active into A1 terminal (mains lighting)
- d. Connect active into A2 terminal (Night light)

Emergency luminaire electrical connections

- a. Connect earth into E or terminal
- b. Connect Neutral into N terminal
- c. Connect switched active into A terminal
- d. Connect unswitched active into A UNSW terminal

- e) Select the wattage/lumen output by changing the dip switches on the LED driver, please refer to section 7 of this installation sheet.
- f) Secure the gear tray to the luminaire body ensuring all cables are clear from pinching or possible damage.
- g) Tighten the screws securing the gear tray.
- h) Installation of the diffuser frame, lightly screw the supplied hex head screws into the 12 holes around the diffuser frame. Place diffuser frame to the body and tighten screws.
- i) Ensure the IP rating of the installation is equal to that of the tested IP rating of the fitting.
Note: the IP rating of the fitting is IP54.
- j) Test fitting as per the relevant Australian standard and as per your SWMS.

12. 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 of 50,000 hrs. in standby mode. The battery is supported with a standard **Four (4) year warranty**; 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.

13. 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 / WARRANTY INSTRUCTIONS

Issue Date: 19-10-2021

Cellite Raw Gen2 - 2FT



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LUMEN SELECT™

1. PRODUCT SPECIFICATION:

| | |
|-------------------------------------|---|
| Type of protection | Class I luminaire |
| IP rating | IP54 FRONT |
| IK rating | IK10 |
| Nominal voltage | 220~240VAC |
| Nominal frequency | 50/60Hz |
| Power factor | >0.8 to >0.9 |
| Inrush current | Cold start 2A(twidth=860µs measured at 50% Ipeak) at 230VAC |
| Earth leakage | 0.3mA |
| Rated operating ambient temperature | 0 to +40°C |
| LED lifetime (L70/B10) rated | >72,000 hours |
| Colour rendering index (CRI) | 80 |
| LED control gear | DALI |
| Available in emergency | Yes, DALI and self-testing |
| Emergency battery technology | 4-hour Lithium Iron Phosphate (LiFePO4) |
| Installation orientation | Recessed |

2. CONSUMABLES

| Description | QTY Required Per Fitting | Brand | Component Part Number | Dimensions (LxWxH) mm |
|---|--------------------------|----------|-----------------------|-----------------------|
| 4 hour Lithium Iron Phosphate (LiFePO4) | 1 | Pierlite | DGLCEM6000/2L22 | 135x55x30 |

3. 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".



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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: 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.

8. DALI CONTROL GEAR: The LED driver and emergency control gear are both controllable through the DALI control system. The luminaire will still work normally (on/off) if the a DALI connection is not connected in a non-systemized installation.

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 |

7. ELECTRICAL CHARACTERISTICS

| SKU to Order | Selectable Wattages by Dip Switches (W) | Line Current (A) | CCT | Driver Settings (mA) | Power Factor | Emergency | Night light | Factory Default Setting |
|--|---|------------------|-----|----------------------|--------------|-----------|-------------|-------------------------|
| CRWLS2D4 / CRWLS2D4G | 12 | 0.073 | 3K | 500 | 0.62 | No | No | |
| | 16 | 0.091 | | 700 | 0.75 | | | |
| | 19 | 0.104 | | 850 | 0.75 | | | |
| | 26 | 0.132 | | 1150 | 0.82 | | | Yes |
| | 31 | 0.149 | | 1400 | 0.89 | | | |
| CRWLS2D4M4 / CRWLS2D4M4G | 16 | 0.094 | 3K | 500 | 0.69 | Yes | No | |
| | 20 | 0.111 | | 700 | 0.74 | | | |
| | 23 | 0.124 | | 850 | 0.79 | | | |
| | 31 | 0.156 | | 1150 | 0.82 | | | Yes |
| | 36 | 0.177 | | 1400 | 0.84 | | | |
| CRWLS2D4N / CRWLS2D4NG (center nightlight) / CRWLS2D4NE / CRWLS2D4NEG (end nightlight) | 12 | 0.073 | 3K | 500 | 0.62 | No | Yes | |
| | 16 | 0.091 | | 700 | 0.75 | | | |
| | 19 | 0.104 | | 850 | 0.75 | | | |
| | 26 | 0.132 | | 1150 | 0.82 | | | Yes |
| | 31 | 0.149 | | 1400 | 0.89 | | | |