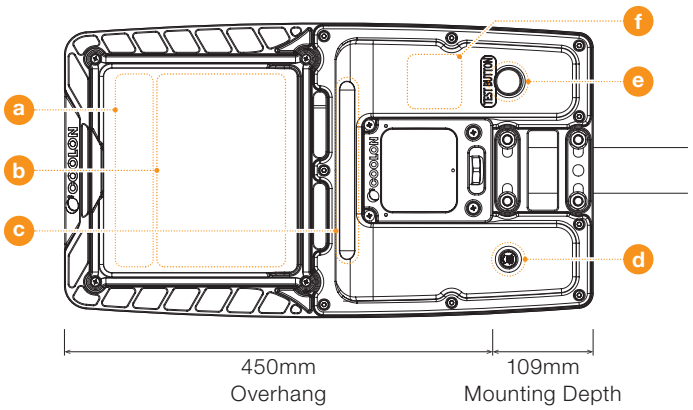


- **a** EM LEDs
- **b** Main LEDs (dual alternating CCT)
- **c** Configurable* RGBW Indicator
- **d** GORE® PolyVent
- **e** EM Test Button
- **f** Charge Power indicator



Technical Specifications

VOLTAGE IN	POWER	OPERATING TEMP.	IP RATING	IK RATING
90 – 305VAC 50/60Hz, 127– 431VDC	60W	0°C ≤ T_{amb} ≤ 50°C	IP66	IK09

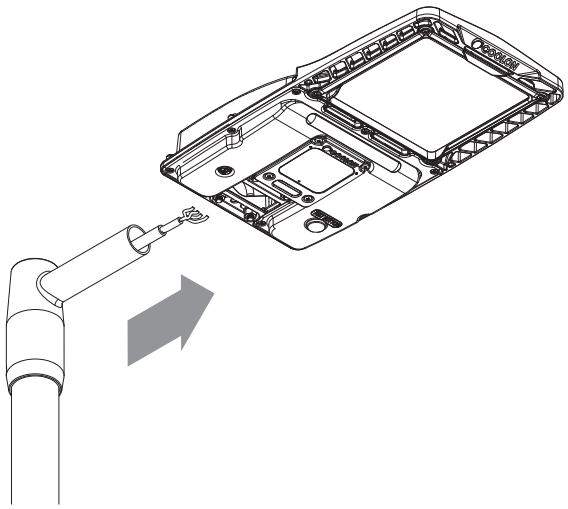


*RGBW Indicator configurable via BitCortex

INSTALLATION INSTRUCTIONS

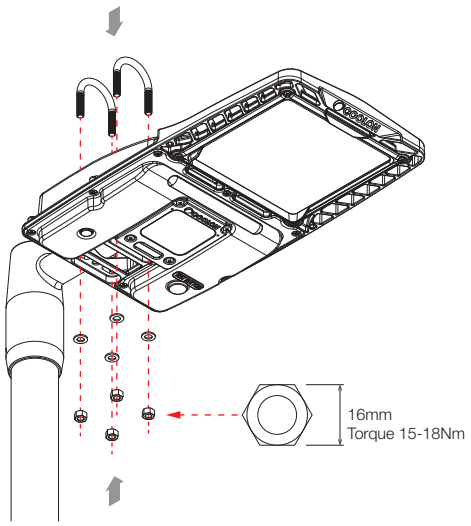
Step 1

Feed cable into the Aelita and mount onto the spigot.



Step 2

Secure using U-bolts with washers and nuts.

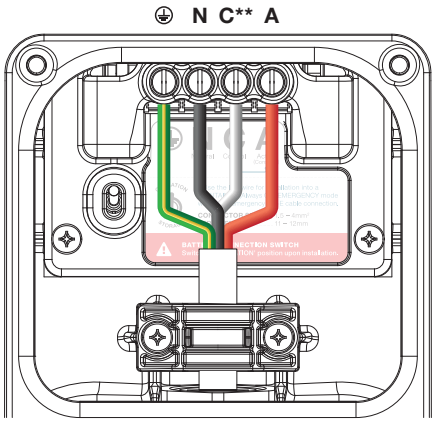


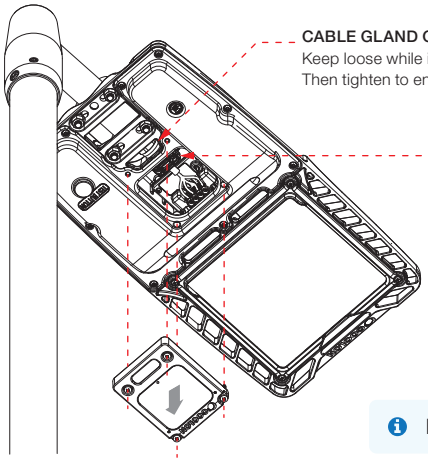
As a matter of continual improvement, the requirements and recommendations in our manuals evolve to reflect new industry requirements and the latest feedback from the field.
The Coolon team is working hard to ensure optimal product operation and the safety of all users, please check our website periodically to ensure you are up to date with the latest information.
Product must be installed by a suitably qualified person. All documentation is subject to change without notice.

INSTALLATION INSTRUCTIONS (CONTINUED)

Step 3

Remove the junction box lid (4x TX25 Torx captive screws) proceed to connect wires as required.
See operating modes (page 3) for wiring / operation options.





CABLE GLAND CAP
Keep loose while installing the cable.
Then tighten to ensure seal.

CLAMP
Needs to be kept loose to be able to put the cable through.

When connection in terminals is done, clamp may be tightened again.

ℹ Housing is earthed internally.

**Optional Control Wire - luminaire can be digitally switched via BitCortex

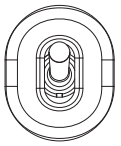
⚠ Always use the correct gland rubber seal size for the cable diameter. Using a larger seal on a smaller cable or a smaller seal on a larger cable can compromise the IP rating, cause cable damage, or result in improper installation.

Step 4

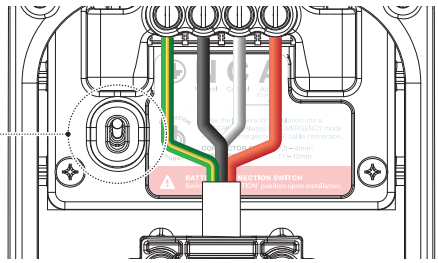
Put the Battery Connection Switch into the ‘Operation’ position.

OPERATION

Battery Connection Switch must be in ‘Operation’ position for in-service operation



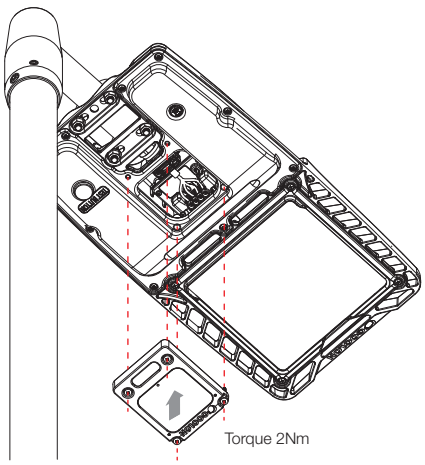
STORAGE

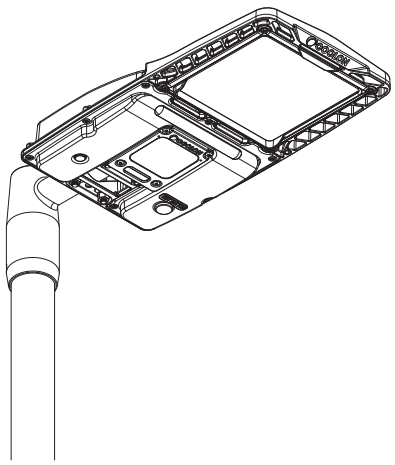


ℹ Switching the Battery Connection Switch to the ‘Operation’ position **without** having mains connected will result in the unit operating in EM mode for 2 minutes. This prevents accidental discharge of batteries during installation. Once mains is connected the unit will change states to in-service operation. The unit will operate for the full expected EM time if mains fail or is disconnected.

Step 5

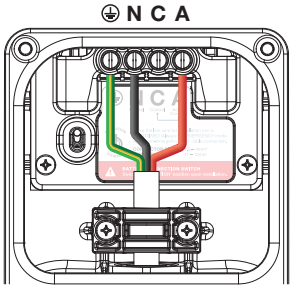
After mounting the Aelita to the spigot and finishing the wiring, refit the junction box lid to complete installation.



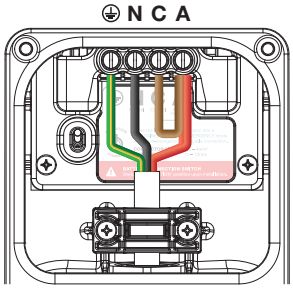


As a matter of continual improvement, the requirements and recommendations in our manuals evolve to reflect new industry requirements and the latest feedback from the field.
The Coolon team is working hard to ensure optimal product operation and the safety of all users, please check our website periodically to ensure you are up to date with the latest information.
Product must be installed by a suitably qualified person. All documentation is subject to change without notice.

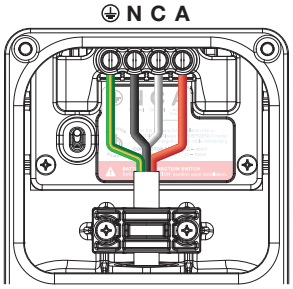
Operating Modes



NON-MAINTAINED
Emergency use only
3 Wires Constant Active Only



MAINTAINED
Always ON
3 Wires Constant Active Only



SWITCHED
Conventional luminaire use with emergency backup
4 Wires Constant Active and Switched Active

OPERATION STATE	ACTIVE	CONTROL	LUMINAIRE STATE	DESCRIPTION
Non-Maintained	ON	N/A	OFF	Main LEDs OFF. Charge Power indicator will indicate mains presence with solid red.
Non-Maintained	OFF	N/A	ON-EM	EM LEDs ON in EM mode (power supplied from battery). Charge Power indicator will not be visible.
Maintained	ON	ON (Link)	ON	Main LEDs ON. Charge Power indicator will indicate mains presence with solid red.
Maintained	OFF	OFF (Link)	ON-EM	Main LEDs OFF, EM LEDs ON in EM mode (power supplied from battery). Charge Power indicator will not be visible.
Switched	ON	ON	ON	Main LEDs ON. Charge Power indicator will indicate mains presence with solid red.
Switched	ON	OFF***	OFF	Main LEDs OFF. Charge Power indicator will indicate mains presence with solid red.
Switched	OFF	ON or OFF	ON-EM	Main LEDs OFF, EM LEDs ON in EM mode (power supplied from battery). Charge Power indicator will not be visible.

Emergency Operation Commissioning

1. Apply mains power and verify that the Charge Power indicator LED has lit up with a solid Red. If the Charge Power indicator is flashing Red instead, please check the position of the Battery Connection Switch and ensure it is in the “Operation” position. Contact Coolon if it continues to flash Red while the Battery Connection Switch is the “Operation” position.
2. Ensure the luminaire is energised for more than 2 minutes before proceeding further.
3. Conduct a Power Cycle Test as below:

   a. Remove mains power. The Charge Power indicator LED will turn off and the unit will enter Emergency mode, and the EM LEDs will turn ON.

   b. Apply the mains power again, and the unit will enter its intended operational mode:

   - “Maintained” mode: the Main LEDs will turn ON
   - “Non-maintained” mode: Main LEDs will be OFF
   - “Switched” mode: the Main LEDs will turn ON or OFF depending on status of the control line***

4. Press the “TEST BUTTON” on the lid to simulate a power outage and observe the operation of the EM LEDs. The Charge Power indicator LED will turn OFF and the EM LEDs will light up.
5. Please allow 16 hours of uninterrupted mains power to fully charge the batteries before proceeding with the Commissioning Test.

Commissioning Test

Once energised allow up to 10 seconds for the EM controller to go through the self-test procedure. After 16 hours of uninterrupted mains power Coolon Emergency Luminaire is ready for commissioning test. In the absence of mains power the Aelita emergency LED luminaire will operate for a minimum of 2 hours during the commissioning test and 1.5 hours during its service life.

***Any induced voltage on the Control wire should be no greater than 10V when the Control is OFF.

As a matter of continual improvement, the requirements and recommendations in our manuals evolve to reflect new industry requirements and the latest feedback from the field.
The Coolon team is working hard to ensure optimal product operation and the safety of all users, please check our website periodically to ensure you are up to date with the latest information.
Product must be installed by a suitably qualified person. All documentation is subject to change without notice.

Battery Replacement Procedure

The Aelita emergency LED luminaire is designed to operate providing specified emergency operating time using the in-built battery for the life of the product. As a result there is no field battery replacement capability.

Storage Shelf Life

The Lithium Iron Phosphate ($LiFePO_4$) battery within the Aelita allows for a long service life. However, its shelf life when in storage is greatly influenced by temperature.

Aelita has a storage shelf life of up to 12 months when stored at a temperature of 20±5°C. Storage temperatures outside of 20±5°C but within the prescribed operating temperature limits will result in a decreased product shelf life of up to 6 months.

If the Aelita cannot be commissioned (put into in-service operation) within the prescribed shelf life, it should be put through a charge cycle (see below). Following a charge cycle, the unit can be stored for a further period appropriate to the storage temperature.

The charge cycle procedure is as follows:

1. Connect the unit to mains supply. The Control line connection does not need to be made (i.e., just A, N and ⏚)
2. Turn the Battery Connection switch to the “Operation” position
3. Energise the unit and allow to charge for 16 hours (a solid red Charge Power indicator should be observed)
4. Deenergise the unit and disconnect mains supply
5. Turn the Battery Connection switch to the “Storage” position
6. Pack the unit for storage

Failure to comply with the above requirements may result in irreparable damage to the battery since such a state would permanently alter the battery chemistry. This mode of failure is not covered by warranty.

IMPORTANT

Primary use: commercial and industrial applications.

- Read through this manual before installation
- Handle the product with care
- Class I products must be grounded
- The product must be installed by a suitably qualified person
- Do not stare at operating lamp, may be harmful to the eyes
- Turn OFF the power before installation and maintenance
- Make sure the product is securely installed
- The housing might become hot after operation
- Keep optical face clean



As a matter of continual improvement, the requirements and recommendations in our manuals evolve to reflect new industry requirements and the latest feedback from the field.
The Coolon team is working hard to ensure optimal product operation and the safety of all users, please check our website periodically to ensure you are up to date with the latest information.
Product must be installed by a suitably qualified person. All documentation is subject to change without notice.