

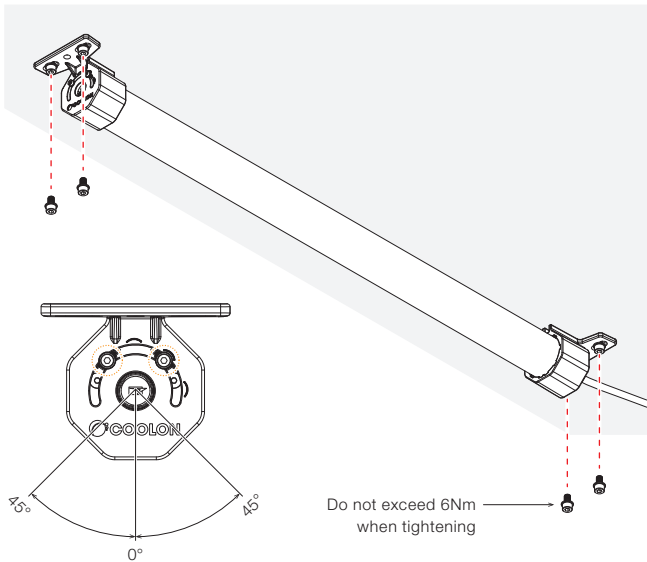
- a Emergency Light Test Button
 - b Emergency Light LEDs
 - c Mains Light LEDs
- Control Board**
- d Mains Indicator LED
 - e Configurable Indicator
 - f Battery Isolation Switch (Magnetic)
 - g Motion Sensor
 - h Status LEDs

* Emergency Discharge Time 90 minutes is guaranteed for temperature range from +10°C to +45°C.

For the battery safety, charging is possible only within the ambient temperature range from +5°C to +40°C.

** Shelf life is defined as time when the Battery Isolation Switch is placed in OFF position after the product had completed a charge cycle. A factory charge cycle is completed prior to the unit being dispatched. Units stored for periods exceeding the shelf life need to undertake a charge cycle within the prescribed time to ensure battery health, see Storage Shelf Life section of the installation manual.

INSTALLATION INSTRUCTIONS



Step 1

Mount the XINIX as appropriate. The mounting plane should be flat. There is no restriction in orientation.

Step 2

Energise the unit. The battery will automatically engage the control circuit when power is supplied as the Battery Isolation Switch (f) will be electronically disengaged.

i XINIX Luminaire is supplied fitted with a 2-core mains cable, terminated with over-moulded 2 pin mains AU plug. Luminaire has no serviceable parts. Any tempering with the fitting (including removal or replacement of the mains cable) could compromise electrical safety and will void warranty.

Step 3

If the unit is not expected to be commissioned or put In-Service within the next 24-hours, it should be put into Shutdown mode using magnetic Battery Isolation Switch (f).

i Please refer to Battery Isolation section for the procedure of Shutdown mode activation.

OPERATION

Mains and Emergency Operation

While mains power is applied, the XINIX luminaire would provide operation of Mains Light LEDs (c).
When mains power is applied, Mains Indicator LED (d) will stay on.

i Flashing Mains Indicator LED (d) means battery is considered faulty. Please contact manufacturer.

The XINIX luminaire has an integral emergency backup battery and is designed to provide reliable Emergency Light in the event of a power outage.

The XINIX luminaire is considered fully charged after 16 hours of being continuously energized with mains power.

i Please refer to technical specifications for the charging and emergency operation temperature range.

In case of mains power interruption, fully charged XINIX luminaire could provide emergency LEDs (b) light output, Configurable Indicator (e) output and support of wireless mesh network, as per specifications.

i Delivery of emergency light output and Configurable Indicator (e) takes precedence over the wireless network support.

i Once XINIX luminaire is de-energised, it will produce emergency light output only if the integral battery had sufficient time to charge prior to power interruption, in accordance with AS/NZS 2293 standard.

When integral battery reaches low state of charge or voltage threshold, delivery of emergency light would be stopped, while Configurable Indicator (e) and wireless network support would continue until the battery reaches critical state of charge threshold, or until 24 hours after mains interruption, whatever first.

When integral battery reaches critical state of charge or voltage threshold, XINIX luminaire would go into Shutdown mode, and all the status green LEDs on the controller board go off.

When mains power is restored, XINIX luminaire would automatically recover from Shutdown mode.

Battery Isolation for Storage

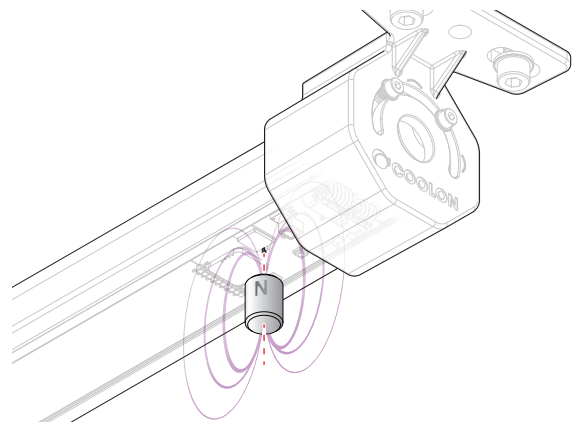
If the XINIX luminaire is not expected to be commissioned or put In-Service, it can be put into Shutdown mode using magnetic Battery Isolation Switch (f).

To activate Shutdown mode, place a strong magnet (not supplied) with the north pole facing the Battery Isolation Switch (f), close to the surface of luminaire tube.

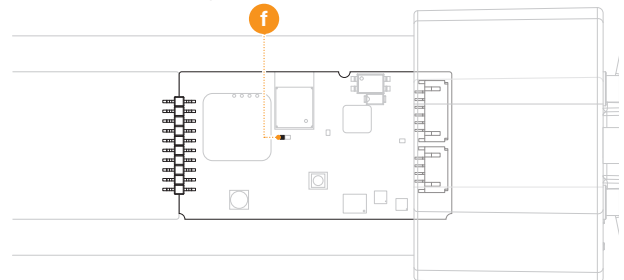
When magnetic isolation switch (f) is activated, all status green LEDs on the controller board will go off, and XINIX luminaire will go into Shutdown mode.

i In case XINIX does not go into Shutdown mode, try applying both poles of a stronger magnet close to the surface of luminaire tube until all the status green LEDs on the controller board go off.

i Putting the XINIX luminaire into storage without Battery Isolation Switch (f) activation of Shutdown mode or with insufficient battery charge may lead to battery depletion below a recoverable level.



Battery Isolation Switch



When mains power is restored, the XINIX luminaire will automatically recover from Shutdown mode.

OPERATION (CONTINUED)

Digital Control

Optionally, mains light output can be digitally controlled (digitally switched ON/OFF, manually or automatically dimmed based on motion sensor) when XINIX is wirelessly connected and provisioned to the Coolon Gateway (sold separately).

Please refer to the Coolon Gateway and BitCortex cloud manual for details on the commissioning and digital control of luminaires.

i For compliance with the AS/NZS 2293 standard, digital control is not applicable to emergency light output.

In the absence of a wireless connection to the Coolon Gateway, the XINIX will operate in Maintained mode. Meaning, whilst the unit is energised it will produce light and once the unit is de-energised it will produce emergency (EM) light.

The following table summarises the behaviour of the XINIX luminaire with respect to the status of the operating conditions.

OPERATION STATE	MAINS ACTIVE	MAINS INDICATOR LED	DIGITAL CONTROL	LUMINAIRE STATE	WIRELESS NETWORK STATE
Maintained	ON	ON RED	Not commissioned	Mains light ON, EM light OFF	Wireless mesh routing
Maintained, digitally controlled	ON	ON RED	Dimming or ON/OFF control via Gateway/BitCortex	Mains light as per control, EM light OFF	Wireless mesh routing
Emergency operation	OFF	OFF	Ignored	Mains light OFF, EM light ON up to 120 minutes as per specifications	Wireless mesh routing up to 24 hours after mains de-energised
Shutdown	OFF	OFF	Ignored	Mains light OFF, EM light OFF	Network shutdown

Configurable Indicator

XINIX luminaire is fitted with a digitally-controlled Configurable Indicator (e).

This indicator is capable of wirelessly propagating visual warnings of certain pre-defined colours and flash patterns that may convey safety warnings.

Indication patterns are programmed and triggered remotely via BitCortex Cloud or a site specific safety system via Coolon Gateway API.

i The default state of the Configurable Indicator (e) is OFF unless configured otherwise by the user.

Commissioning / Put In-Service

The commissioning of the XINIX involves the following:

1. Verify that the XINIX is installed and wired appropriately as per the Installation Instructions.
2. Supply mains power continuously for at least 16 hours to achieve fully charged status. Note that the Mains Indicator LED (d) will be on when mains is present.
3. Conduct the Commissioning EM Operation test by disconnecting the mains power. The unit is deemed to have passed the test if light is produced for a minimum of 120 minutes

The unit is considered to be **In-Service** once it is provided a minimum of 16 hours of uninterrupted mains supply following the Commissioning EM Operation test.

Testing (In-Service)

There are 2 ways to test the XINIX for EM Operation as outlined below.

NOTE: The unit needs to complete the Commissioning EM Operation test prior to undergoing In-Service EM testing.

1. Test Button
 - a. Press the Test Button (a) to interrupt mains supply to the XINIX.
 - b. The XINIX is deemed to have passed the test if the Mains Indicator LED (d) stops illuminating and Emergency Light is produced.
 - c. Release the Test Button (a) to allow mains supply to energise the XINIX
2. In-Service EM Test

NOTE: The XINIX should have a minimum of 16 hours of uninterrupted mains supply prior to the In-Service EM Test.

- a. Disconnect power to the XINIX, the Mains LED Indicator (d) will stop illuminating and the unit will provide Emergency Light.
- b. The XINIX is deemed to have passed the test if it produces light for 90 minutes.
- c. Reconnect power to the XINIX.

OPERATION (CONTINUED)

Storage / Removal from In-Service

In cases when XINIX must be removed from In-Service operation for transportation or long-term storage (more than 24 hours), the XINIX must be put into Shutdown mode by activating the Battery Isolation Switch (f).

- i Please refer to Battery Isolation section for the procedure of Shutdown mode activation.
- ! Prior to removal for storage, please ensure the XINIX has been fully charged (had a minimum of 16 hours uninterrupted mains power supplied).
- ! Putting the XINIX luminaire into storage without Battery Isolation Switch activation of Shutdown mode or with insufficient battery charge may lead to battery depletion below a recoverable level.

Take note of the date the XINIX is taken out of service and observe the requirements set in the Storage Shelf Life specifications.

Battery Charge Cycle

1. Connect power to XINIX.
2. Energise the unit and allow to charge for 16 hours. Mains LED Indicator (d) should be observed to stay ON.

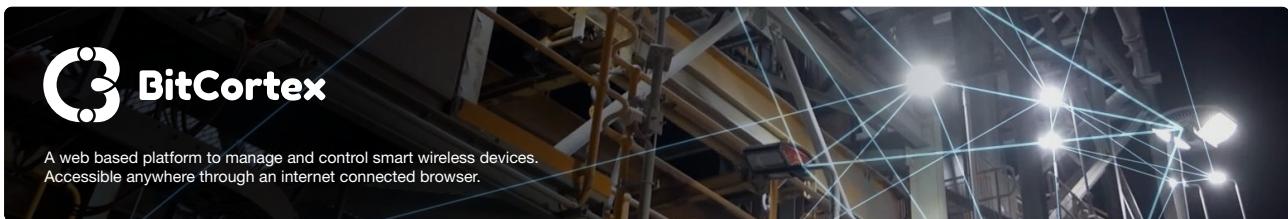
! Flashing Mains LED Indicator (d) means battery is considered faulty. Please contact manufacturer.

3. De-energise the unit and disconnect mains supply.
4. Trigger the Battery Isolation Switch (f) to isolate the battery from the control circuit as per Storage / Removal from In-Service instructions.
5. Record the date of the Battery Charge Cycle.
6. Pack the unit for storage or proceed to the next operation / installation step.

Storage Shelf Life

The XINIX has a storage shelf life of up to 12 months when stored at a temperature of 20±5°C after dispatch from the factory. Storage temperatures outside of 20±5°C but within the specified unit operating temperature limit will decrease the product shelf life to 6 months. The XINIX should be put through a Battery Charge Cycle if it cannot be commissioned within the prescribed shelf life. Following the Battery Charge Cycle, the XINIX can be stored for a further period appropriate to the storage temperature.

! Failure to comply with the above requirements for Storage may result in irreparable damage to the battery since such a state would permanently alter the battery chemistry. This type of failure is excluded from the warranty.



BitCortex
A web based platform to manage and control smart wireless devices.
Accessible anywhere through an internet connected browser.



Once the product has reached end of life, unit is to be disposed of in accordance to local e-waste laws or regulations. Do not dispose of these products as unsorted municipal waste: take them for recycling. For information on your nearest recycling point, check with your local waste authority.

! 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

