



## ESAU Series

### Surface Architectural Battery Unit



**WARNING:**  
Risk of Shock.  
Disconnect Power before Installation.



## IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:


## READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. All servicing should be performed by qualified service personnel.
2. Unit to be installed only as per configuration described in this instruction manual.
3. All unused wires must be capped to prevent shorting.
4. Indoor use only.
5. Do not mount near any heat source.
6. Equipment should be mounted in location where it will not readily be subjected to tampering by unauthorized personnel.
7. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
8. Do not use this unit for other than its intended use.
9. Use caution when handling batteries.
  - a. This equipment uses a sealed lithium iron phosphate battery.
10. Allow battery to charge for 72 hours before first use.

## SAVE THESE INSTRUCTIONS


### Installation Instructions

1. Turn off AC power supply.
2. Remove back plate from unit.
3. For conduit entry, attach a conduit connector to junction box and insert a flexible conduit into conduit connector leaving 6 inches of wire inside the junction box. Secure flexible conduit to junction box. (see fig. 2)
4. For pendant mount, secure pipe to junction box and leave 6 inches of wire inside junction box. (see fig. 2)
5. Feed AC supply leads through large hole in back plate.
6. Install back plate to junction box following proper orientation. (see fig. 1 & 3)
7. The system accepts input voltages of 120 to 277 VAC: Connect the white lead to neutral and purple lead to AC emergency power. (see fig. 4)
8. Connect battery connector to Printed Circuit Board Assembly (PCBA). (see fig. 4)
9. Position AC supply wire connections in the designated area in the housing and snap housing to back plate. (see fig. 4)
10. Turn on AC power supply.

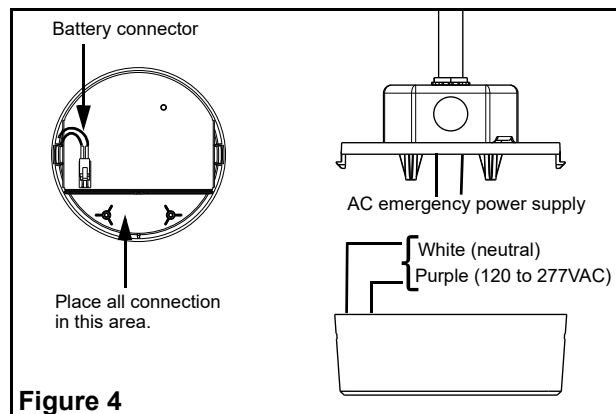
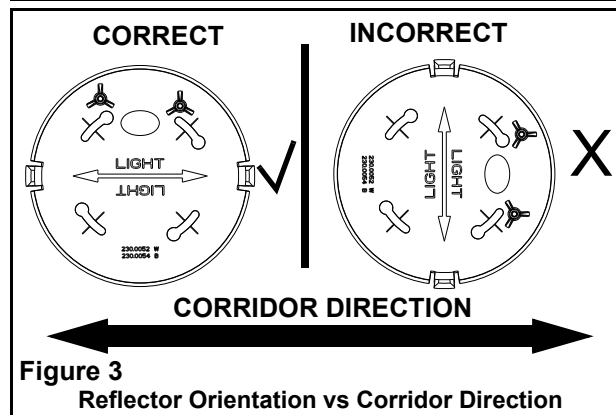
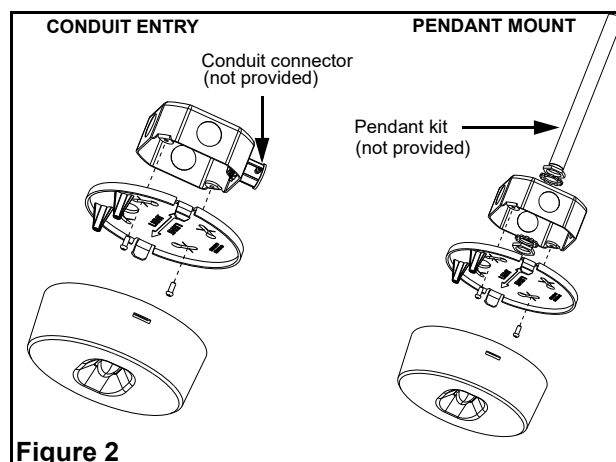
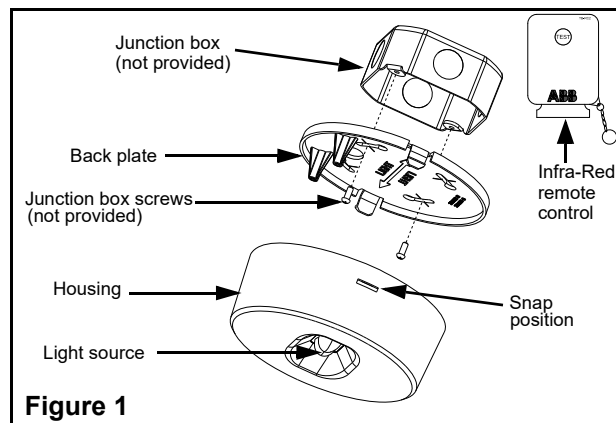


**Important:** Install product no higher than the maximum mounting height of 12 feet from the floor.

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**CAUTION:** DO NOT LOOK DIRECTLY INTO ILLUMINATED LUMINAIRE.



## Manual Testing

Direct the remote control towards the unit and click on the TEST button: the unit will start a one-minute test. Unit will automatically turn off once the test is completed.

Note: Remote control comes with a clear tab that prevents the battery from discharging on its own. Tab must be removed for remote control to function.

## Automatic Self-test and Diagnostic (Option)

Once power is supplied, the unit will automatically initiate a routine self-test schedule as follows:

- Verifies battery connection, battery failure, charger board failure and lamps failure.
- Executes one-minute monthly self-test.
- Executes a 30-minute self-test every 6th month.
- Executes a 90-minute self-test every 12th month.

Diagnostic:

The unit is equipped with a bi-color pilot light and indicates the following status:

- Green color: AC-on / self-test. Red color: Service alarm.
- A diagnostic label is installed on the unit cover (see figure 5).

Figure 5

	LABEL	INDICATOR ACTIVITY	MEANING
●	AC ON	Steady green	AC on
- ●	IN TEST	Blinking green	Testing in progress
●	BATTERY / LAMP DISCONNECT	Steady red	Battery disconnected and/or load disconnected
- ●	BATTERY FAILURE	1 red blink, then a 5-second pause	Battery failure
● ●	CHARGER FAILURE	2 red blinks, then a 4-second pause	Charger failure
● ● ●	LAMP FAILURE	3 red blinks, then a 3-second pause	Lamp failure

## Transfer Time Delay (Option)

When power is restored after a power failure, the Time Delay keeps the emergency lighting active for 15 minutes (factory set). If the battery depletes before the end of the time delay, the lights turn off and the unit goes in stand-by mode.

## Nexus® Pro (Option)

After installation and power up, the pilot light will alternate color between green and orange every other second. A diagnostic label is installed on the unit cover (see figure 6).

Figure 6

	LABEL	INDICATOR ACTIVITY	MEANING
●	AC ON	Steady green	AC on
- ●	IN TEST	Blinking green	Testing in progress
●	BATTERY / LAMP DISCONNECT	Steady red	Battery disconnected and/or load disconnected
- ●	BATTERY FAILURE	1 red blink, then a 5-second pause	Battery failure
● ●	CHARGER FAILURE	2 red blinks, then a 4-second pause	Charger failure
● ● ●	LAMP FAILURE	3 red blinks, then a 3-second pause	Lamp failure
●	SERVER FAILURE	Steady yellow	Server failure
- ●	BLINK MODE	Blinking yellow	Wink mode
- ● - ●	NOT COMMISSIONED	Alternating yellow and green blinks	Unit not commissioned

For Nexus commissioning follow the instructions of the User Manual.

## Maintenance

Models equipped with batteries:

If AC supply is to be disconnected for 2 months or more, the battery must be disconnected.

Battery must be recharged or placed in service according to the "Shelf life" stated in the Warranty Statement.

**Warranty:** Refer to <https://tnb.ca.abb.com/en/brands/emergi-lite> in the Technical Information section.