INSTRUCTIONS
Lightcloud Blue Emergency Battery Backup Installation

RAB

EMHB30/LCB
EMHB30B/LCB
EMHB60/LCB
EMHB60B/LCB

Compatible Fixtures
EMHB30/LCB, EMHB30B/LCB - H17 / H17XL / HB15 / HB15XL
EMHB60/LCB, EMHB60B/LCB - H17XXL

Not Compatible with Sensors

IMPORTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
RAB fixtures must be wired in accordance with the National Electrical Code and al applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.
WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.
PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS
WARNING: AC power must be off before proceeding with assembly or installation of emergency LED driver.
IMPORTANT: An unswitched AC power source of 120VAC to 277VAC is required. This device is designed for use in fixtures listed for dry, damp and wet locations. Emergency LED driver should be charged for 24 hours every 6 months during storage.
CAUTION:
- Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Use with grounded UL Listed dry, damp or wet location rated fixtures.
- The Emergncy LED Driver is intended for ordinary locations and for permanent installation.
- Battery is rechargeable Li-ion type and must be recycled or disposed of properly.
  Do not use this emergency driver with accessory equipment other than recommended by manufacturer; failure to follow this may cause an unsafe condition. Servicing should only be performed by qualified service personnel. Do not use this emergency driver for other than intended use.
IMPORTANT: When the LED indicator is illuminated the battery is in charge mode when AC power is applied. It is recommended and required by applicable code to test emergency LED driver to ensure proper function of the system; test every thirty *(30)* days to ensure the emergency driver is functioning by illuminating the light source. Conduct a ninety *(90)* minute discharge test one *(1)* time per year; LED light source should be illuminated for 90 minutes.
TESTING SYSTEM: The emergency battery requires a minimum charge of one *(1)* hour before testing the circuit. A full charge requires twenty-four *(24)* hours.

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INSTALLATION

1. **DISCONNECT AC POWER FROM THE FIXTURE:**
   - Disconnect all power sources to the lighting fixture during installation or maintenance
   - The AC driver must be sourced from the backup nano inverter
   - Select a suitable location for the backup nano inverter and install such that its output leads can connect to the input leads of the AC driver

   INSTALL THE BACKUP NANO INVERTER AND WIRING:
   - Select a suitable location on the ceiling for hangable device
   - Install upper and lower hooks to backup nano inverter and secure with set screws
   - Install the backup nano inverter to the fixture and open inverter cover
   - Put the wires through the waterproof connectors into the emergency driver, connect all wires and make sure all connections are in accordance with the wiring diagram from manufactures' installation manual *(fig. 8, fig. 9)*
   - Connect the dimming wires from fixture to inverter
   - Re-install the inverter cover carefully to avoid pinching the wires and cover tether
   - Hang the backup nano inverter with fixture to the hangable device on the ceiling and attached the safety cable

NOTE: Strain-reliefs are not installed on the backup nano inverter at the factory. Strain-reliefs are provided in the parts bag.

2. **CONNECT AC POWER:**
   - When connected to AC power, the charging indicator should illuminate to indicate that the battery is being charged
   - A short-term discharge test may be conducted after the backup nano inverter has been charging for 1-hour, charge for 24-hours before conducting a long-term discharge test
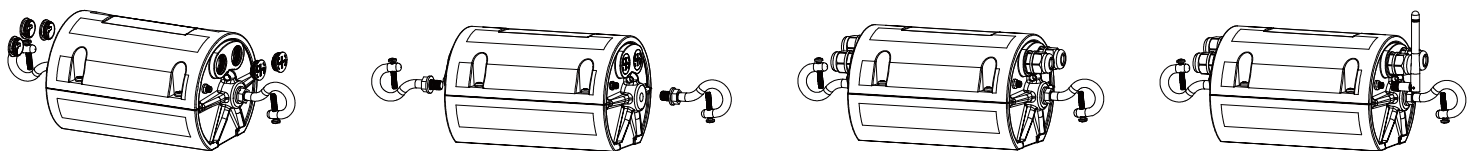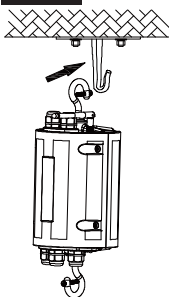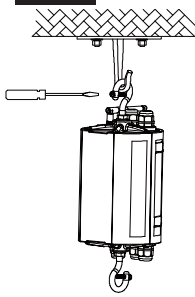
OPERATION INSTRUCTIONS
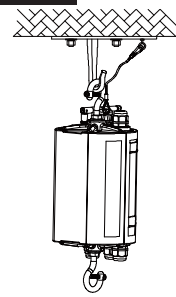

Fig. 1

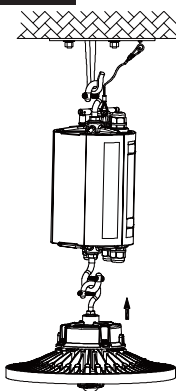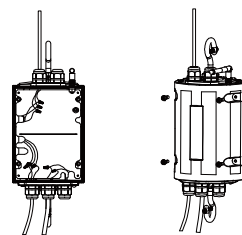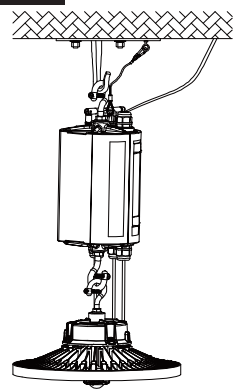Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6   Fig. 7

NOTE: The maximum weight of lighting fixture should NOT EXCEED 44 lbs

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RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com
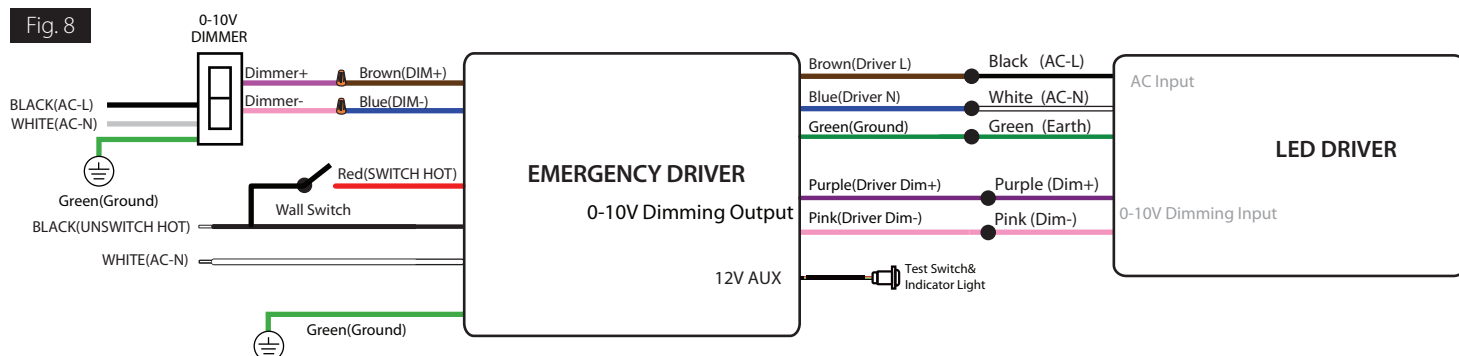
WIRING DIAGRAMS

IMPORTANT: Dimming wires must be connected to Fixture LED Driver for Emergency Back-up to function properly.
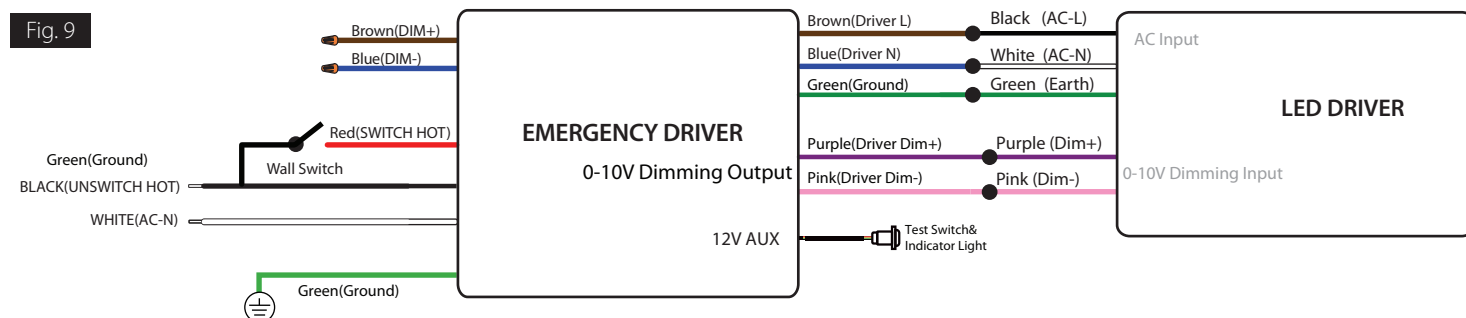
RECOMMENDATION: Emergency output power >20% LED Fixture output power.

FOR HIGH BAY *(100-277VAC)*
FOR HIGH BAY WITH WALL SWITCH *(WITH DIMMER)*

Fig. 8

0-10V DIMMER

Dimmer+ — Brown(DIM+)
BLACK(AC-L)
WHITE(AC-N)
Dimmer- — Blue(DIM-)

Green(Ground)
BLACK(UNSWITCH HOT)
WHITE(AC-N)

Red(SWITCH HOT)
Wall Switch

Green(Ground)

EMERGENCY DRIVER
0-10V Dimming Output
12V AUX

Brown(Driver L) — Black (AC-L)
Blue(Driver N) — White (AC-N)
Green(Ground) — Green (Earth)

Purple(Driver Dim+) — Purple (Dim+)
Pink(Driver Dim-) — Pink (Dim-)

Test Switch& Indicator Light

LED DRIVER
AC Input
0-10V Dimming Input

FOR HIGH BAY WITH WALL SWITCH *(WITHOUT DIMMER)*

Fig. 9

Brown(DIM+)
Blue(DIM-)

Green(Ground)
BLACK(UNSWITCH HOT)
WHITE(AC-N)

Red(SWITCH HOT)
Wall Switch

Green(Ground)

EMERGENCY DRIVER
0-10V Dimming Output
12V AUX

Brown(Driver L) — Black (AC-L)
Blue(Driver N) — White (AC-N)
Green(Ground) — Green (Earth)

Purple(Driver Dim+) — Purple (Dim+)
Pink(Driver Dim-) — Pink (Dim-)

Test Switch& Indicator Light

LED DRIVER
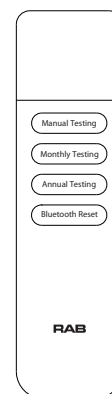AC Input
0-10V Dimming Input

REMOTE CONTROL USE

- Manual Testing Button: press and hold for a short duration test and release, then the nano inverter will return to charging mode.
- Monthly Testing Button: press and release. The nano inverter tests for 30s then returns to charging mode.
- Annual Testing Button: press and release. The nano inverter operates until battery is drained then returns to charging mode. This test should run for a minum of 90 minutes.
- Bluetooth Reset Button: press 10 seconds within range and release.
- Indicator light is on while battery is charging or fully charged.
- Indicator light flashing:
  1) Battery failure *(open circuit or short circuit)*

Auto self-test:
- Monthly self-test: Automatic self-test every month.
- Annual self-test: Automatic self-test every 12 months.

Manual Testing
Monthly Testing
Annual Testing
Bluetooth Reset

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LIGHTCLOUD® BLUE

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile app.

Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooh Mesh network. Up to 60 feet between standard building materials.

CONTROLLING LIGHTCLOUD® BLUE DEVICE

1. Confirm your device is powered on.
2. Download the Lightcloud Blue app from the Apple® App store or Google Play™ store.
3. Launch the App and create an account or login.
4. Tap the "add device" icon in the app to start connecting devices.
5. Entering to device setting by press"...", you are able to see status/battery life and run test through App.
6. You're all set!

For additional information about the Lightcloud Blue mobile app visit www.lightcloud.com/item/lcb-getting-started/
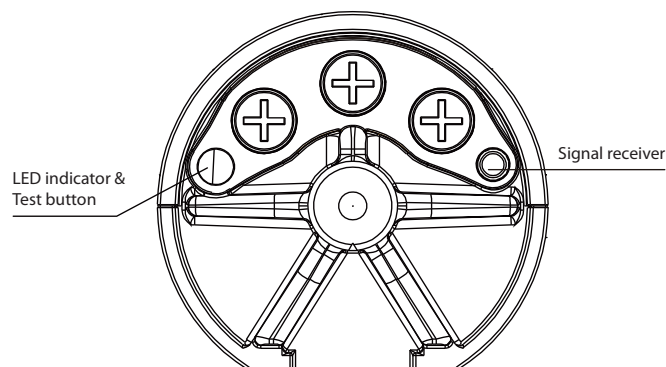
RESET TO FACTORY SETTINGS

If your Lightcloud Blue fixture is already paired, you can reset it to factory settings by using the below methods.

Method 1: Delete from App

Open the app and access the device settings for the paired device. Be sure that the downlight is online (green status bars are visible) and select "Delete".
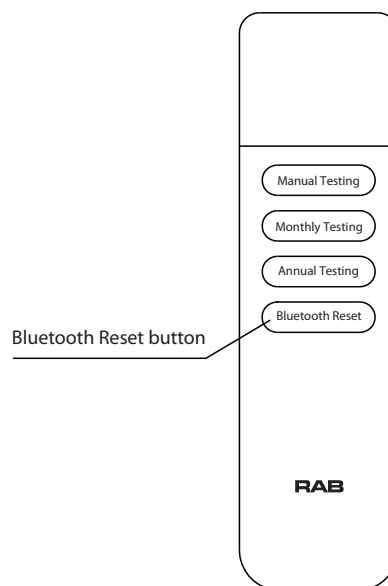
Method 2: Test Button

Press the LED indicator & test button 5 times or more than 5 times within 5 seconds.

LED indicator & Test button

Signal receiver

Method 3: Remote *(Optional)*

Press the Bluetooth Reset button on EMHB/LCB-REMOTE for 10 seconds within range.

Manual Testing

Monthly Testing

Annual Testing

Bluetooth Reset

Bluetooth Reset button

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CONFIGURATION

To configure the Lightcloud Blue please login to the Lightcloud Blue app for details. For additional startup information, visit www.lightcloud.com/item/lcb-getting-started/

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Easy Answers

rablighting.com	**Tech Help Line**	**e-mail**	**Free Lighting Layouts**
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