

## BLD-RM40R-YYY SERIES LED EMERGENCY DRIVER

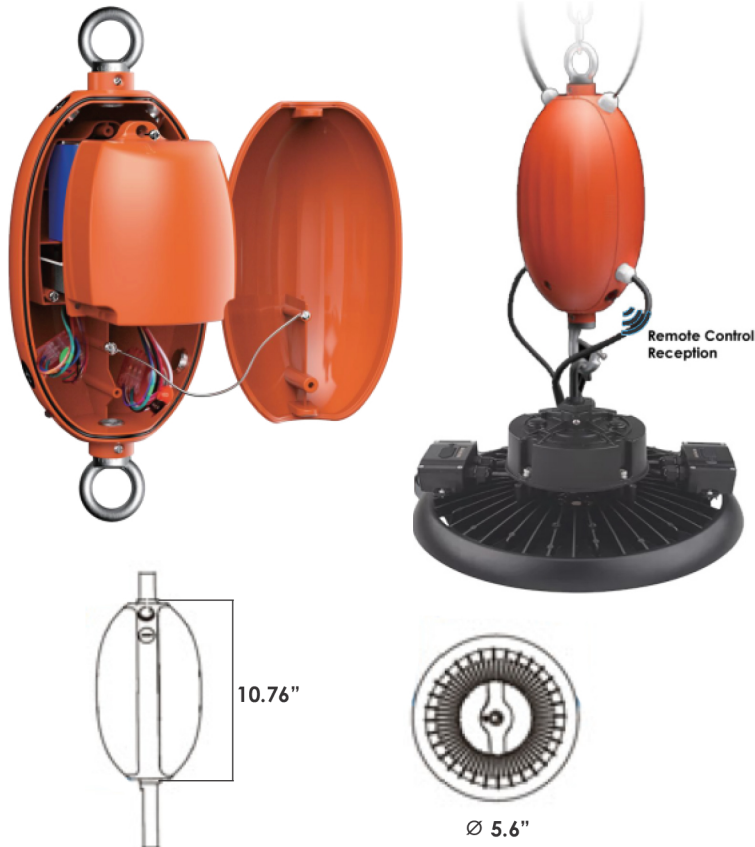


### FEATURES

- Simple wiring: directly connect to AC INPUT of LED Driver
- Output Power: 40W
- Universal Input Range, 100-347VAC, 50/60Hz
- High Output Voltage DC 170V
- Optimized design for Round High Bay fixture, private mold patent design
- Built-in integrated Junction Box
- Protection: over-voltage, short-circuit, overload, open-circuit
- Wireless remote control or non-remote control for emergency test are optional
- UL Listed for field or factory installation
- Comply with UI924 standard and CSA 22.2, No.141 for USA and Canada



### CONSTRUCTION & DIMENSIONS

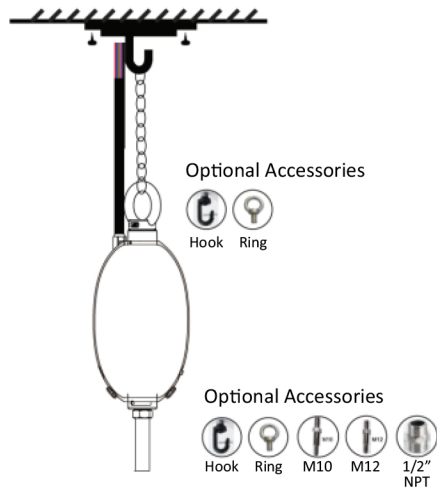


### SPECIFICATIONS

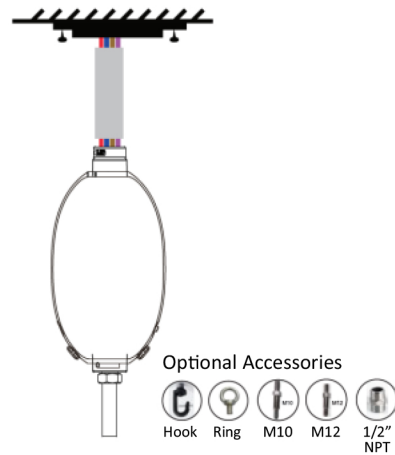
Input Voltage	100-347VAC, 50/60 Hz
Output Voltage	170V DC
Input Current	≤200mA
Input Power	15W
Output Power	40W
Emergency Time	90 minutes
Operating Temperature	41°F to 122°F (5°C to 50°C)
IP rating	IP65
Battery Type	Li-Ion Battery
Charging Time	≥24 hours
Test Switch / Charging Indicator Light	Remote Control Non-Remote Control
Dimensions (L x Ø)	10.76"x5.6" (273x142 mm)
Weight (lbs / kg)	7.28 lbs (3.3 kg)
Warranty	5 Years Limited

## MOUNTING OPTIONS

### Chain or Cable Mount



### 1/2" Conduit Mount



## IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following  
**PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

**CAUTION: RISK OF SHOCK** - disconnect emergency and normal input power sources before servicing  
**ASSEMBLY and FIELD INSTALLATION WIRING WARNING:** AC power must be off before proceeding with assembly or installation of Emergency Driver

**IMPORTANT:** An unswitched AC power source is required (100-347VAC, 50/60Hz). This device is designed for fixtures installed in dry, damp or wet locations. Suitable for use in +5°C...+50°C ambient temperatures. **MAX mounting height** is 48.65 feet.

**IMPORTANT:** Customers are advised to charge Emergency Driver 24 hours every 6 months during storage.

**IMPORTANT:** Suggested to use with LED lamp less than 300W (when dimming to minimum the power needs to be less than 35W).

**IMPORTANT:** Make sure all the connections are in accordance with the National Electrical Code or Canadian Electrical Code and any local regulations.

**CAUTION:** To reduce the risk of electric shock disconnect both normal and emergency sources within this unit before servicing any equipment connected to this unit.

**CAUTION:** Do not mount near gas or electric heaters.

**CAUTION:** Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.

**CAUTION:** Do not use this equipment for other than its intended use.

**CAUTION:** Use with grounded, UL Listed, dry or damp location fixtures. Case should also be grounded.

**CAUTION:** This product is for use in indoor fixtures only. Do NOT use near heated air handling outlets or hazardous locations.

**CAUTION:** Battery is rechargeable Li-Ion type and must be recycled or disposed properly.

Do not use this emergency driver with accessory equipment with other than recommended by the manufacturer.

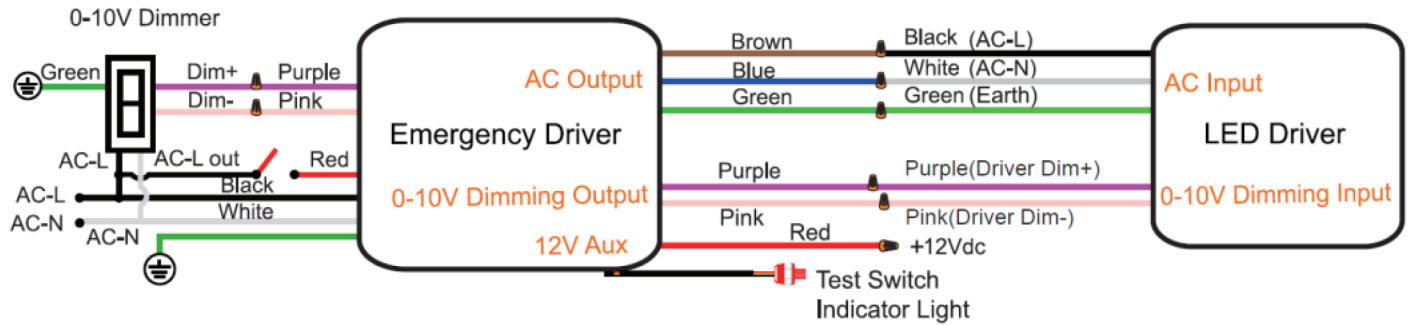
Failure to follow this rules may cause an unsafe condition and will void warranty.

Servicing of this equipment should be performed by qualified personnel only.

**IMPORTANT: Illuminated indicator (LED light) means battery is in charge mode when AC power is applied.**

It is recommended and required by applicable code to test emergency function to ensure proper operation of the system; press the remote controller ON button every 30 days to ensure the emergency driver is functioning and LED light source is illuminated. Conduct a 90 minute discharge test one time per year. LED light source should be illuminated for a minimum of 90 minutes.

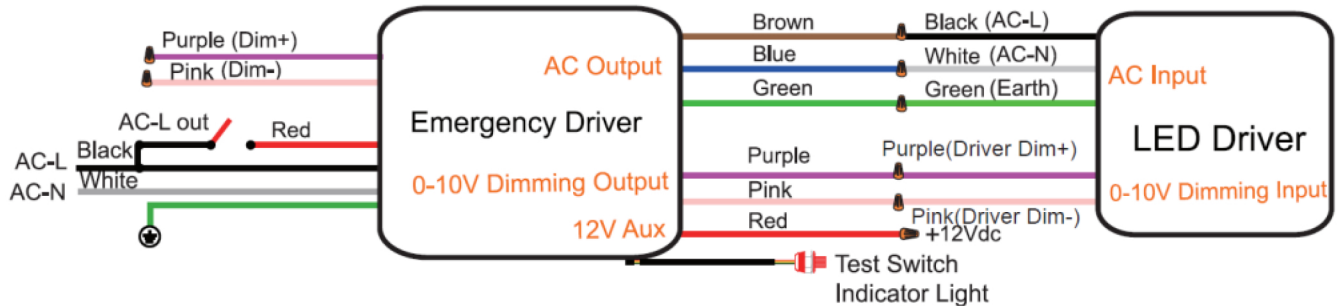
**TESTING SYSTEM:** The emergency battery requires a minimum charge of one hour before testing the circuit. A full charge requires 24 hours.

**WIRING DIAGRAM 1 - WITH DIMMER****IMPORTANT**

Emergency driver 0-10V dimming wires must be connected to LED driver dimming wires for EM to function properly.  
Will not operate if not connected

**RECOMMENDATION**

Emergency Output Power  $\geq 20\%$  Output Power of LED High Bay

**WIRING DIAGRAM 2 - WITHOUT DIMMER****IMPORTANT**

Emergency driver 0-10V dimming wires must be connected to LED driver dimming wires for EM to function properly.  
Will not operate if not connected

**RECOMMENDATION**

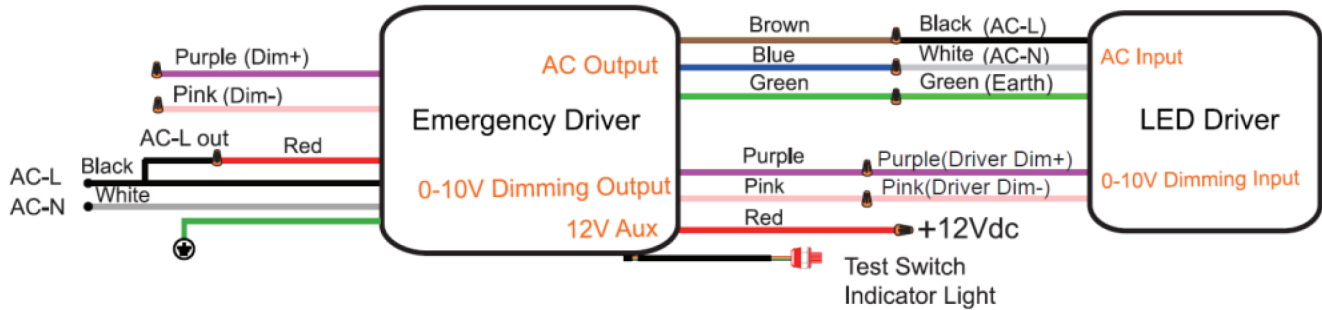
Emergency Output Power  $\geq 20\%$  Output Power of LED High Bay



Catalog #: \_\_\_\_\_ Project: \_\_\_\_\_

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_ Type: \_\_\_\_\_

### WIRING DIAGRAM 3 - WITHOUT WALL SWITCH & DIMMER, 24 HOURS LIGHTING



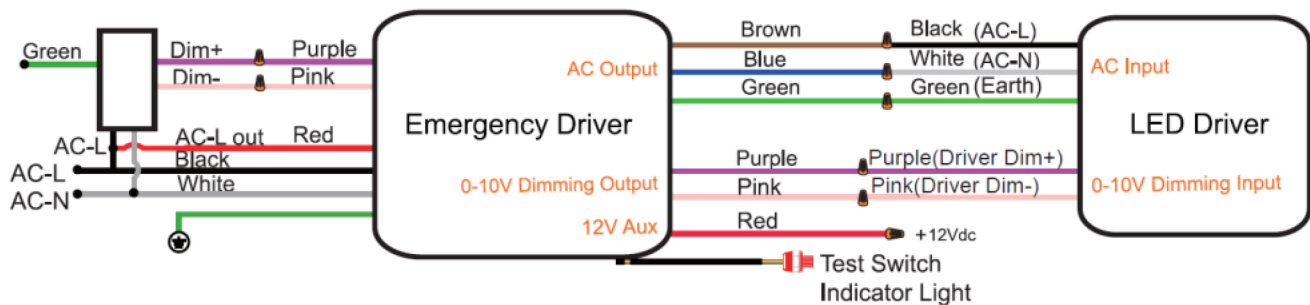
#### IMPORTANT

Emergency driver 0-10V dimming wires must be connected to LED driver dimming wires for EM to function properly.  
Will not operate if not connected

#### RECOMMENDATION

Emergency Output Power  $\geq 20\%$  Output Power of LED High Bay

### WIRING DIAGRAM 4 - WITH SENSOR (100-277/347VAC)



#### IMPORTANT

Emergency driver 0-10V dimming wires must be connected to LED driver dimming wires for EM to function properly.  
Will not operate if not connected

#### RECOMMENDATION

Emergency Output Power  $\geq 20\%$  Output Power of LED High Bay

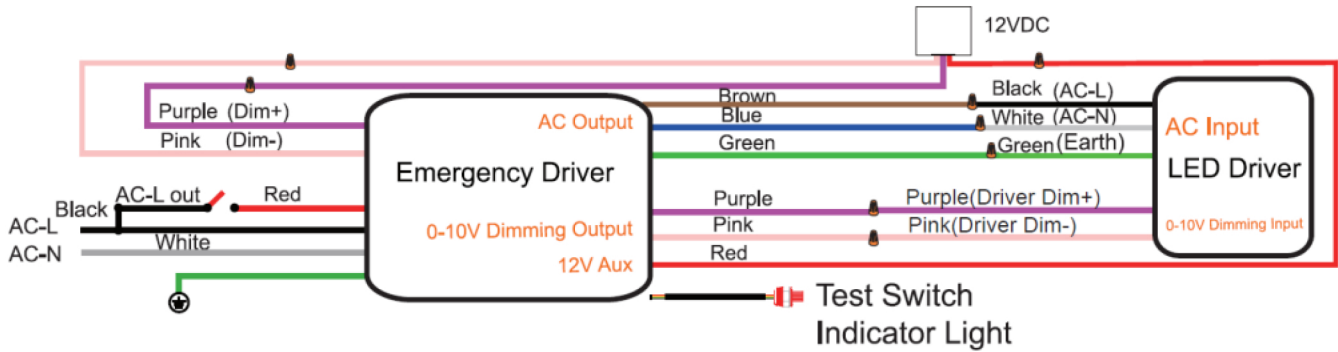


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## WIRING DIAGRAM 5 - WITH 12VDC SENSOR



### IMPORTANT

Emergency driver 0-10V dimming wires must be connected to LED driver dimming wires for EM to function properly.  
 Will not operate if not connected

### RECOMMENDATION

Emergency Output Power  $\geq 20\%$  Output Power of LED High Bay

## INSTALLATION STEPS

### Step 1 - Notice

- Disconnect all power sources to the lighting fixture and ensure they are locked out during installation and maintenance.
- Select a suitable location on the ceiling for proper mounting of LED emergency driver (battery).

### Step 2 - Installation

- Install the ring to top threaded hole of LED emergency driver and secure ring with screw.
- Install the G-hook/ring bolt/M10-rod/M12-rod to the Bottom thread hole of LED emergency driver and fix it with screw.
- Install the LED emergency driver and fix it with screw.
- Open the LED emergency cover and remove the plastic covers and install the waterproof connectors (4pcs).

### Step 3 - Wiring

- Pull all wires through the waterproof connectors into the cavity of emergency driver.
- Connect the AC output wires (Brown, Blue and Green) of emergency driver with AC input wires of LED highbay fixtures.
- Connect the dimming output wires (Purple and Pink) of emergency driver with the dimming input wires of LED Driver.
- Connect AC input wires (Black, White, Red) of emergency driver with AC main power cord.
- Connect the input dimming wires (Purple, Pink) of emergency driver with dimming wires from dimmer.
- Close and lock emergency driver and secure shut using screw.
- Make sure all connections are in accordance with manufacturer's installation details.

### Step 4 - Testing

- After installation is complete, apply AC power.
- At this point power should be connected to the fixture driver and the emergency LED driver. Charging indicator light should be illuminated, indicating the LED emergency driver (battery) is charging.
- A short-term discharge test may be conducted after the emergency LED driver has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.

