Installation Instructions

EM-RM40W-GN

WARNING
RISK OF FIRE OR ELECTRIC SHOCK
The back up must be installed by a qualified electrician in accordance with applicable federal, state, and local laws and codes. Installation requires knowledge of luminaire electrical systems and installer should be familiar with the operation of this product. If not qualified, do not attempt installation; contact a qualified electrician. Manufacturer assumes no responsibility for the improper installation of this back up.

WARNING
To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. When installing this kit, drilling may damage wiring and electrical parts. Check for wiring and components in enclosure before drilling.

CAUTION
RISK OF PERSONAL INJURY
- Wear gloves or proper handling protection to prevent cuts or abrasions when handling and maintaining this product. This equipment may have sharp edges. To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warning and instructions included with and on the fixture box and all fixture labels.
- Avoid direct eye exposure to the light source while it is on.

WARNING
RISK OF PERSONAL INJURY, FIRE OR ELECTRIC SHOCK
Turn OFF power before installation.

NOTICE
- An un-switched AC power source of AC power is required.
- Don't let any cords touch hot surfaces.
- Equipment should be mounted in locations and at height where it will not readily be subjected to tampering by unauthorized personnel.
- Battery is rechargeable Li-ion type and must be recycled or disposed of properly; Requires a charge min. 1 hour before testing the circuit, a full charge requires 24 hours.
- Minimum 90° supply conductors.
- Specifications and dimensions subject to change without notice.
- Suitable for Dry or Damp or wet location.

Contact manufacturer with any questions or concerns regarding installation of this emergency driver.

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Features
- Constant power output 40W, suitable for max. 300W fixture
- Input voltage 120-347V
- High output voltage DC170V
- Optimized design for UFO high bay light
- Simple wiring, directly connect to LED driver AC input
- All in one design, no extra external junction box required
- Over-voltage, short-circuit, over-load, open-circuit protection
- Wireless remote control
- Automatically conduit monthly 30 minutes and annual 90 minutes test

|	
Input Voltage	120-347V
Input Frequency	50/60 Hz
Power Factor	> 0.9
THD (Max.)	< 20%
EM Power	40W
Output voltage	170V DC
Emergency time	90 minutes
Battery Type	Li-ion
Operating Temp.	32°F to 122°F (0°C to 50°C)
Warranty	5 years limited Warranty

DIMENSION

5.6"(142mm)

9.45"(240mm)
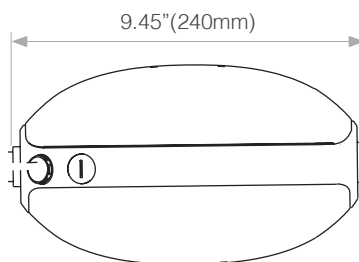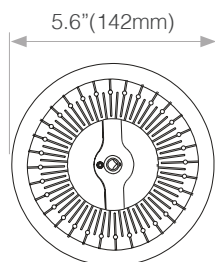
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Typical of Installations

Pendant mount

CDR-15-5-BK order separately
1/2" NPT stem not provided
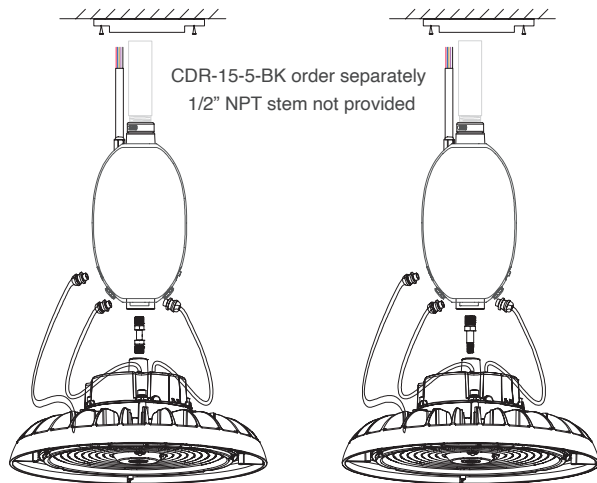
For RWUX series   For RHXS series

Suspension mount

CDR-15-5-BK order separately
Chain not provided
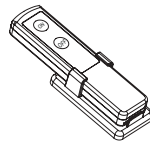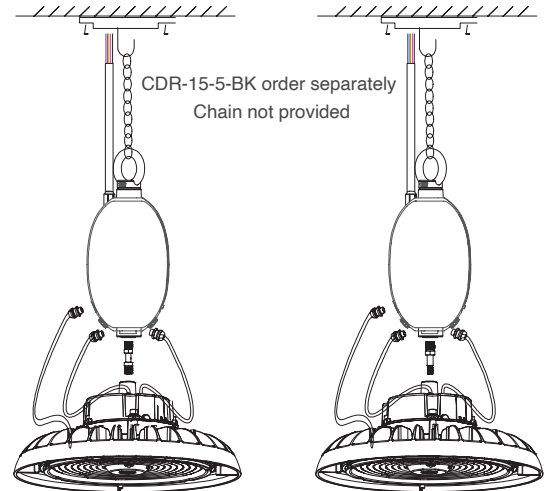
For RWUX series   For RHXS series

Note: 1/2" to 1/2" NPT adapter for RWUX series, M12 to 1/2" NPT adapter for RHXS series.
At least one remote control RC-RN1 is required for one site or one project, order separately.
CRD-15-5-BK 15ft 18AWG cable order separately.

Part list included

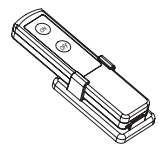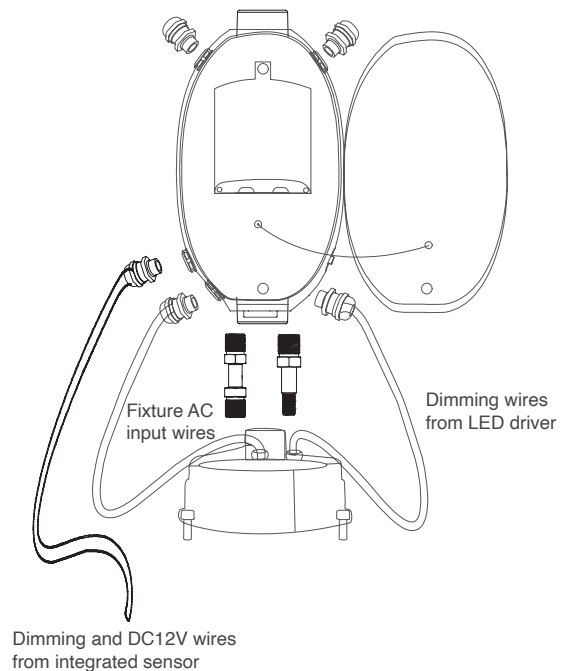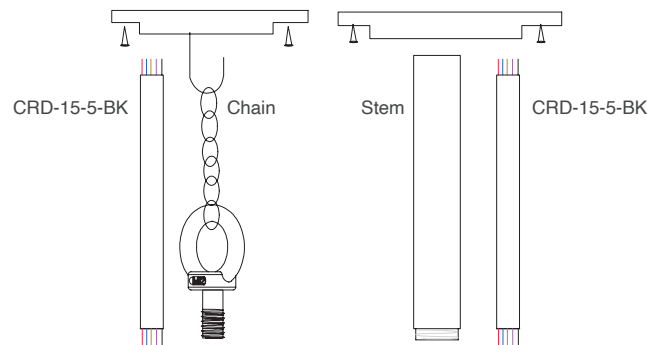| No.	Part Name	Qty	Picture
1	EM-RM40W-GN	1	
2	Ring	1	
3	M12 to 1/2" NPT adapter	1	
4	1/2" to 1/2" NPT adapter	1	
5	Waterproof connectors (For dimming wires)	2	
6	Waterproof connectors (For AC wires)	3	
7	Instruction sheet	1	\

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Installations Details

① Install ring to the top hole for suspension mount, (opposite of the red indicator light), and secure ring with screw. If the site requires the G-hook, you need to take the G-hook from accessories of UFO RWUX. For pendant mount, no need to do this, install the 1/2" NPT stem at site. (Chain and stem by others)

② Install the one end of adapter to bottom hole, (near red indicator light), and secure the adapter with screw; And then install the another end (with the emergency driver) to the UFO fixture and secure with screw.
Note: 1/2" to 1/2" NPT adapter for UFO RWUX series, M12 to 1/2" NPT adapter for UFO RHXS series.

③ Open emergency driver cover by 2.5mm hex key tool (by others).

④ Install waterproof connectors.

⑤ Wiring: Pull wires through connector and into cavity of emergency driver, connect wiring using wire connectors according to the labels marks and the wiring diagrams below. And labelling the wires that need to connect to the power panel, wall switch.
Note: If the fixture did not installed the integrated DC sensor and never need that (MMS-DC-PIR4T, MMS-DC4T), you don't need to cut the dimming cable which from LED driver to integrated DC sensor.
(CRD-15-5-BK 15ft 18AWG cable order separately)

⑥ Close LED emergency driver and secure with screw.

⑦ Testing
   A) After installation is complete, apply AC power.
   B) The power should be connected to the fixture and emergency driver, Charging indicator light should be illuminated, the emergency driver (battery) is charging.
   C) A short-term discharge emergency mode test may be conducted after charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test. (RC-RN1 is required, order separately)

⑧ Hang or install the whole device to suitable structure (by others) located in the ceiling.

CRD-15-5-BK   Chain   Stem   CRD-15-5-BK

Fixture AC input wires

Dimming wires from LED driver

Dimming and DC12V wires from integrated sensor

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Operation

AC Operating mode: The emergency driver is in standby or charging mode when AC power is available. The indicator charging indicator light should be illuminated to indicate the battery is charging.

AC Power → Charging → Full-charged
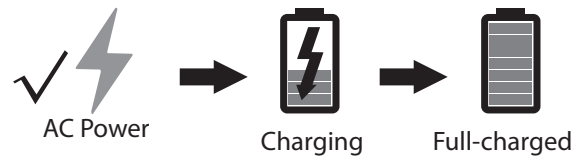
Emergency Operating mode: When AC power goes out, the emergency driver automatically switches to emergency mode, and the indicator light turn to off, that means the battery is discharging. When AC power is restored, emergency driver goes back to AC operating mode and recharging.

AC Power OFF → Discharging → Emergency Mode
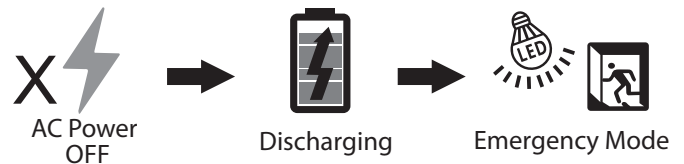
Remote control RC-RN1 Instruction:

Press the ON button to test emergency function. The fixture will switch to emergency mode and the indicator light will turn off. Press OFF button and fixture returns to normal mode.

When the AC power goes out, press the OFF button to turn off emergency function, and you can't turn it on again until AC power is restored.

| Red ON |
| Charging ① |

| Red OFF |
| Discharging ② |
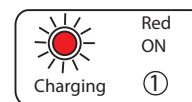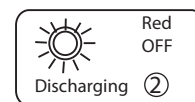
① RED / ON: Charging   ② RED / OFF: Discharging

Note: Remote must be pointed at the indicator light at a 45 degree angle to send signal to emergency driver. Remote controls RC-RN1 requires two AAA batteries to operate, batteries are not included.
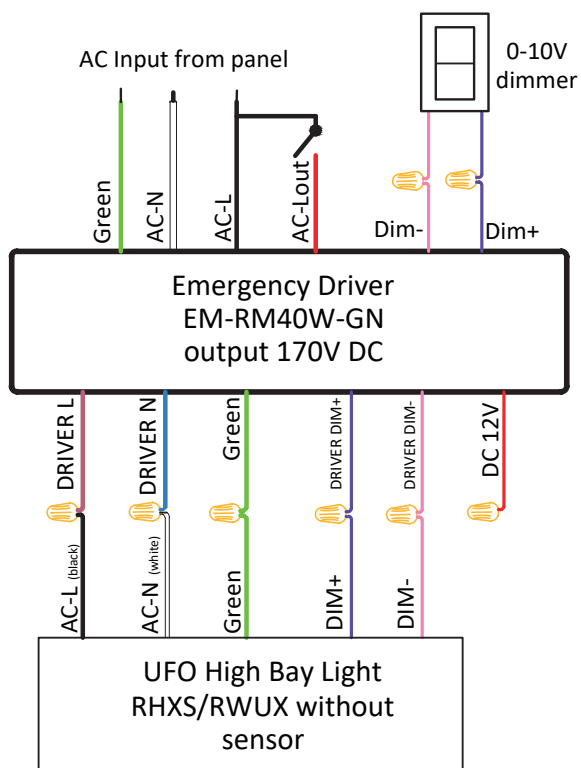
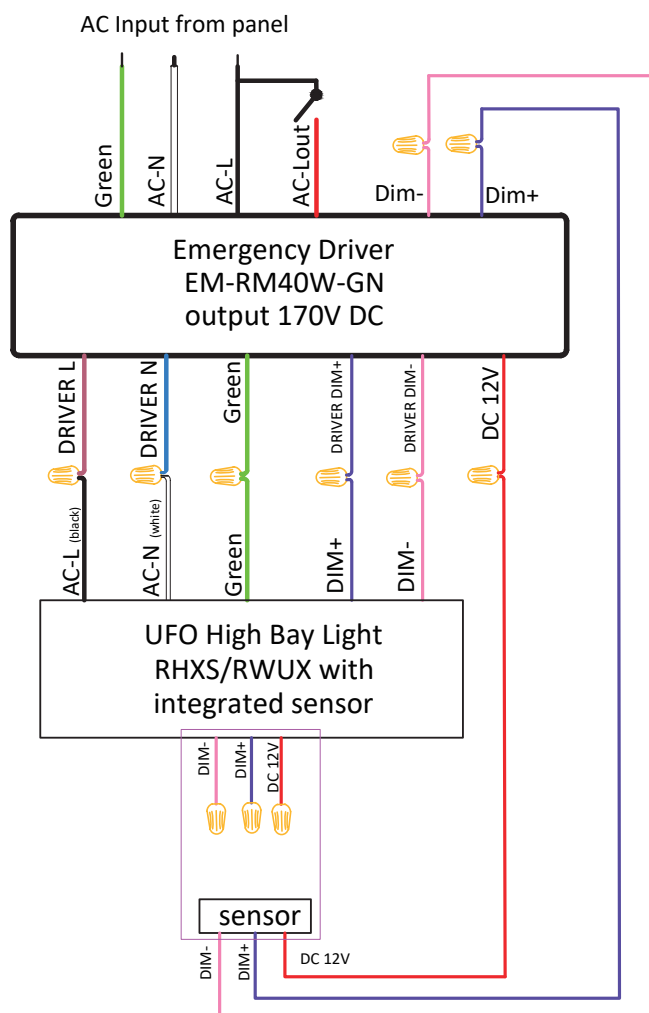# Alphalite

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Wiring Diagram

① **UFO fixture without integrated sensor**

AC Input from panel

0-10V dimmer

Green | AC-N | AC-L | AC-Lout

Dim- | Dim+

**Emergency Driver
EM-RM40W-GN
output 170V DC**

DRIVER L | DRIVER N | Green | DRIVER DIM+ | DRIVER DIM- | DC 12V

AC-L (black) | AC-N (white) | Green | DIM+ | DIM-

**UFO High Bay Light
RHXS/RWUX without
sensor**

② **UFO fixture with integrated sensor**

AC Input from panel

Green | AC-N | AC-L | AC-Lout

Dim- | Dim+

**Emergency Driver
EM-RM40W-GN
output 170V DC**

DRIVER L | DRIVER N | Green | DRIVER DIM+ | DRIVER DIM- | DC 12V

AC-L (black) | AC-N (white) | Green | DIM+ | DIM-

**UFO High Bay Light
RHXS/RWUX with
integrated sensor**

DIM- | DIM+ | DC 12V

sensor

DIM- | DIM+ | DC 12V

Note: The emergency driver dimming wires must be connected to 0-10V dimming wires of UFO LED driver or it will not work properly. EM-RM40W-GN for 0-10V dimmable LED fixture with an input power less than 300W.

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