

Catalog Number :

Project Name :

Note :

Date :

Type :

### Description

The commercial downlight, combined with an integrated battery backup power supply, provides 90 minutes of uninterrupted lighting in the event of a power outage.

The commercial downlights offer selectable wattage and adjustable color temperature technologies.

Provide preferred lighting for commercial complexes, hospitality, healthcare industry, schools, shopping centers, industrial areas and hotels.



### Based on sample setting. Actual lumens may vary.

Model#	Size	Wattage	5CCT	Lumens
SU-DN6IN-30W5P5C EM-G14	6inch	12-16-22-26-30W	2700K	1080-1480-2200-2470-2860lm
			3000K	1140-1560-2310-2650-2950lm
			3500K	1170-1630-2370-2730-3130lm
			4000K	1220-1680-2420-2860-3320lm
			5000K	1280-1790-2500-2990-3440lm

Model#	Size	Wattage	5CCT	Lumens
SU-DN8IN-35W5P5C EM-G14	8inch	16-22-26-30-35W	2700K	1500-2250-2500-2850-3450lm
			3000K	1580-2370-2680-2930-3650lm
			3500K	1660-2450-2760-3100-3790lm
			4000K	1710-2500-2890-3280-3880lm
			5000K	1790-2530-3000-3400-3860lm

Model#	Adaptive Power	Emergency Power
EMW2-15170DI-HY	<150W	15W

**NOTE:** The unit of EMW2 series for led lamp less than 150W (When the fixture dim to the minimum, the power needs to be less than that of emergency led driver).

### Technical Specification

INPUT VOLTAGE	<b>AC 120-277V</b>
POWER FREQUENCY	<b>50/60Hz</b>
POWER FACTOR	<b>&gt;0.9</b>
5CCT	<b>2700K   3000K   3500K   4000K   5000K</b>
CRI	<b>90</b>
BEAM ANGLE	<b>90°</b>
MATERIAL	<b>AL+PC</b>
DIMMABLE	<b>0-10V dimming</b>
LIFESPAN	<b>≥50,000hours</b>
INPUT POWER (CHARGING)	<b>7W Max</b>
BATTERY CAPACITY	<b>2550mAh</b>
EMERGENCY TIME	<b>90 Minutes</b>
INITIAL CHARGE TIME	<b>24 Hours</b>
COMPATIBLE LAMP TYPE	<b>Commerical Downlight</b>
LED INDICATOR	<b>Green indicator</b>
BATTERY TYPE	<b>Li-ion</b>
OPERATING TEMP	<b>(32°F~ 122°F) 0~50°C</b>
RATING	<b>Suitable for Wet Locations</b>
WARRANTY	<b>5 years</b>

### Features

- Constant output power.
- Directly connect to AC Input of LED Fixtures.
- Includes 2-in 1 test switch and charge indicator light.
- **Battery:** over charge protection, over discharge protection.
- Self-testing

### Installation

Easy fit installation, spring-action housing clips.  
 Suitable for most new constructions.

### Dimming

Supports 0-10V dimming from 100% to 0%.

### Electrical

This fixture is built with the highest quality drivers, ensuring energy efficiency.

### Listing

ETL Listed.



Specification subject to change without notice

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## Usage Instructions

Caution: Before Installation, Make Certain The A.C. Power is Off !

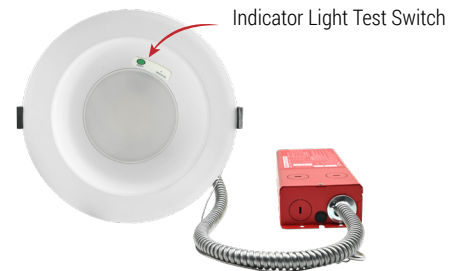
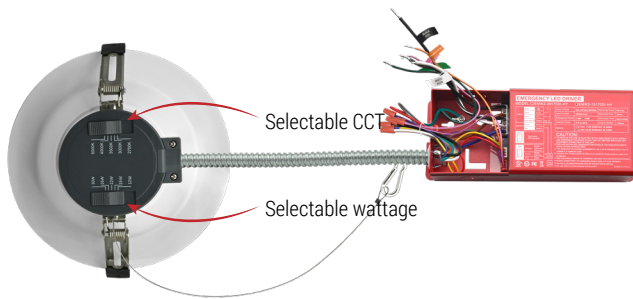
The installation of emergency lighting fixtures should be carried out by qualified professionals, and only after the wiring is properly connected can it be powered by the mains.

### Wiring The Emergency Driver

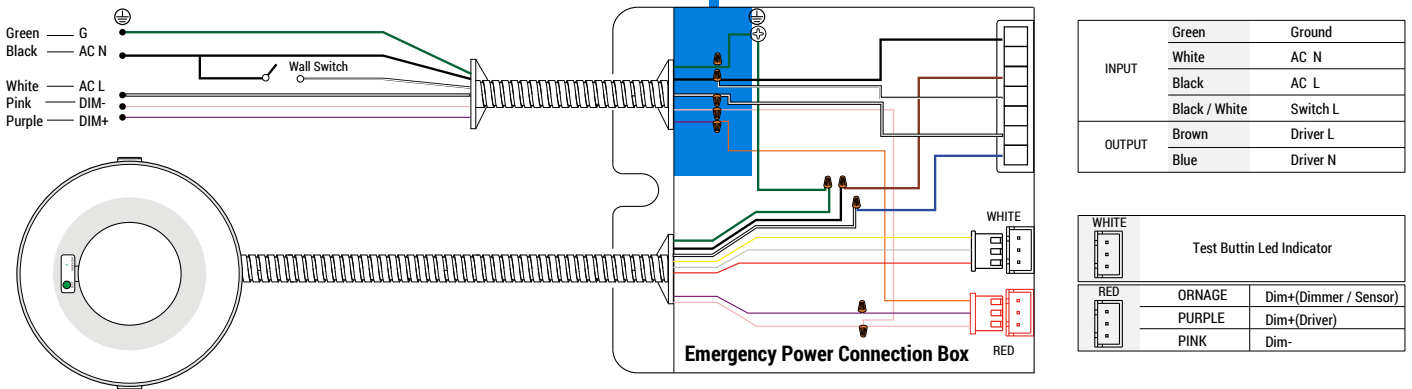
- Open the cover of function box.
- Follow the wiring instructions on the label and use a crimping cap to connect the wires.

### Testing

- After wiring is complete, check if the indicator light lights or not, which will indicate the battery's charging situation.
- **The battery in this unit may not be fully charged.** A short-term discharge test may be conducted after the emergency driver has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.



### Terminal Wiring Diagram



## Operation(Indicator Status)

Mode	Test Switch Operation	Indicator Status	Comment & Solutions
AC Mode	NO press	ON(no flashing)	Emergency LED driver is charging
	press once	2s ON and 2s OFF (slow flashing)	Emergency LED driver is conducting a 30s short-term emergency test. After 30 seconds, it will automatically restore to normal charging mode
	press twice(2s)in sequence	2s ON and 2s OFF (slow flashing)	Emergency LED driver is conducting a long-term emergency test until battery is fully discharged
Emergency Mode	NO Press	2s ON and 2s OFF (slow flashing)	Emergency LED driver is conducting a long-term emergency test until battery is no power
Problem	When indicator flashes (50ms) ON and (50ms) OFF fast, the emergency backup pack is abnormal contact the manufacturer		

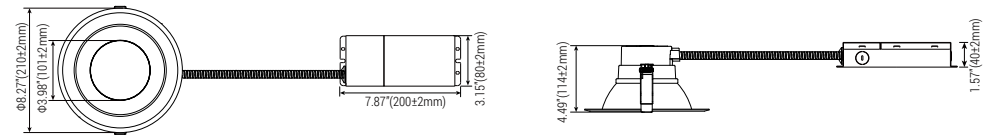

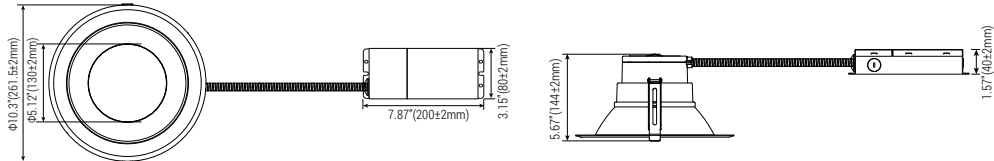
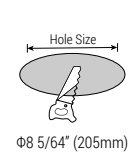
**WARNING**  
Risk of Electric Shock



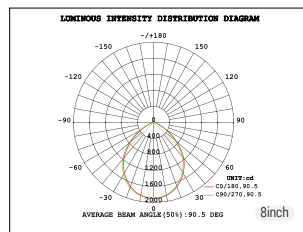
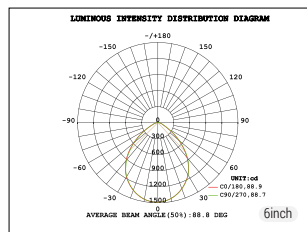
Note: Please press once test button to make certain the battery is turned off, before installation, maintenance, storage or shipping.

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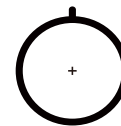
## Size & Dimension & Hole Cutout

Size	Dimension	Hole Cutout
6inch		 <p>Hole Size  <math>\Phi 6 19/64"</math> (160mm)</p>
8inch		 <p>Hole Size  <math>\Phi 8 5/64"</math> (205mm)</p>

## Luminaire Photometric



## Accessories



Hole cutout card



Wire nuts

## Important

In emergency mode, the dimming function does not work.

**Monthly-** During AC mode, the system conducts a (30)seconds self-discharge test of the emergency led driver every 30 days. And automatically restore to normal charging after (30)seconds dis-charged.

**Annually-** During AC mode, the system conducts a (90)minutes self-discharge test of the emergency led driver every 365 days. And automatically restore to normal charging after fully dis-charged.

## Caution

- Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.
- This is a sealed unit. Components are not replaceable. Replace the entire LED Emergency Backup unit when necessary.
- Equipment should be mounted in locations and at heights where it is not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment is not recommended by the manufacturer and may cause an unsafe condition.
- Use with grounded, UL Listed, dry or damp location rated fixtures. Case should also be grounded.
- Battery is rechargeable Li-ion type and must be recycled or disposed of properly.
- Suitable for use in 0°C -50°C ambient temperatures.
- Please do not place the battery near fire or heat sources; refrain from throwing the battery into a fire; avoid using or charging the battery in locations that exceed the specified temperature parameters; and never get the battery wet, soak it, or throw it into water or seawater.
- This fixture is for use with grounded, UL Listed, damp location rated, indoor fixture. Not for use in heated air outlets or hazardous locations
- Do not use outdoor.