

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
CD04D-06-22-LS3C5-D0E	6inch	12-17-22W	2700K	1200-1585-1995lm
			3000K	1280-1710-2170lm
			3500K	1345-1810-2315lm
			4000K	1365-1835-2340lm
			5000K	1360-1815-2325lm
CD04D-08-30-LS3C5-D0E	8inch	17-24-30W	2700K	1605-2140-2605lm
			3000K	1670-2245-2750lm
			3500K	1750-2370-2925lm
			4000K	1795-2430-3010lm
			5000K	1820-2440-2990lm

## Technical Specification (Commercial Downlights)

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>100°</b>
Material	<b>AL+PC</b>
Dimmable	<b>0-10V Dimming</b>
Lifespan	<b>≥50,000hours</b>
Operating Temp	<b>(-4°F~ 113°F) -20~45°C</b>
Rating	<b>Suitable for Wet Locations</b>
Warranty	<b>5 years</b>

## Listing

ETL Listed.



## Basic Parameters

Model#	Adaptive Power	Emergency Power
EMW2-08170DI-HY	<150W	8W

**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 (Emergency Battery Backup)

Input Voltage	<b>AC 120-347V</b>
Power Frequency	<b>50/60Hz</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>Commercial Downlight</b>
Led Indicator	<b>Red Indicator</b>
Battery Type	<b>7.2V Li-ion</b>
Finish	<b>Red</b>
Operating Temp	<b>(32°F~ 122°F) 0~50°C</b>
Warrant	<b>5 Years</b>

## Listing

UL Listed. FCC.



Catalog Number:

Project Name:

Note:

Date:

Type:

## Usage Instructions

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

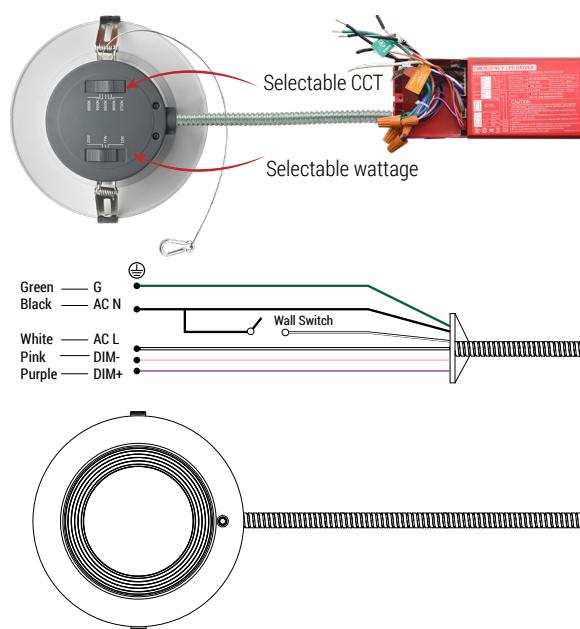
The installation of emergency lighting fixtures should be carried out by qualified professionals, and only after the wiring is properly connected can it be powered by the mains.

### Wiring The Emergency Driver

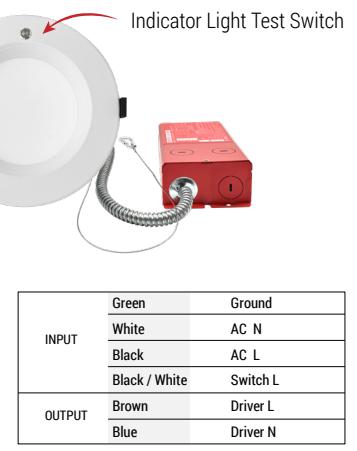
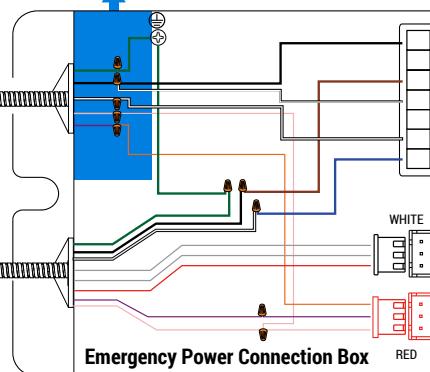
- Open the cover of the function box.
- Follow the wiring instructions on the label and use a crimping cap to connect the wires.

### 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.



Termina Wiring Diagram



INPUT	Green	Ground
	White	AC N
	Black	AC L
	Black / White	Switch L
OUTPUT	Brown	Driver L
	Blue	Driver N

WHITE	Test Buttin Led Indicator		
RED	ORNAGE	Dim+(Dimmer / Sensor)	
PURPLE		Dim+(Driver)	
PINK		Dim-	

## 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.	

**Recommended Dimmer** (The dimming function doesn't work in emergency conditions.)

LUTRON				LEGRAND
RMJS-8T-DV-B	Diva DVSTV	MS-Z101-WH	DVSTV-WH	RH4FBL3PW

Catalog Number:

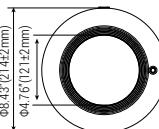
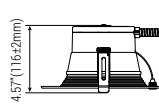
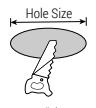
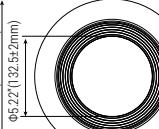
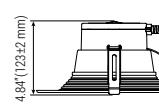
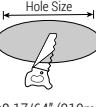
Project Name:

Note:

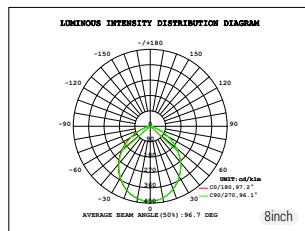
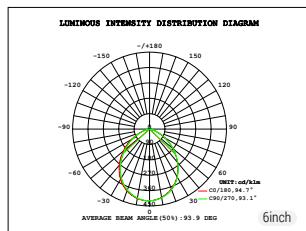
Date:

Type:

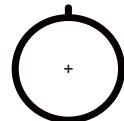
## Size & Dimension & Hole Cutout

Size	Dimension	Hole Cutout
6inch	 <p>Outer diameter: Ø8.43" (214.2mm) Inner diameter: Ø6.76" (172.15mm) Length: 7.87" (200±2mm) Width: 3.15" (80±2mm)</p>  <p>Height: 4.57" (116.2mm) Width: 1.57" (40±2mm)</p>	 <p>Hole Size: Ø6 11/64" (170mm)</p>
8inch	 <p>Outer diameter: Ø10.07" (255.2mm) Inner diameter: Ø6.22" (157.2mm) Length: 7.87" (200±2mm) Width: 3.15" (80±2mm)</p>  <p>Height: 4.84" (123±2mm) Width: 1.57" (40±2mm)</p>	 <p>Hole Size: Ø8 17/64" (210mm)</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.