Hubbell CU2RC

Hubbell Compass CU2RC LED Emergency Light Instruction Manual

Model: CU2RC

Important: Read all instructions before installation and operation.

1. IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
- The use of accessory equipment not authorized by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended purpose.
- Servicing of this equipment should be performed by qualified service personnel.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm. Thoroughly wash hands after installing, handling, cleaning, or otherwise touching this product.

WARNING: Make sure that power is OFF before making any Electrical Connections.

Unused wires must be capped using enclosed wire nuts.

FOR USE IN CONDITIONED SPACE, DAMP LOCATIONS, STAIRWELLS, HALLWAYS, OFFICES, RETAIL OR COMMERCIAL SETTINGS

Image: Important Safeguards and Installer Information. This image displays critical safety warnings and installation guidelines for the emergency light, emphasizing the need for qualified personnel for servicing.

2. PRODUCT OVERVIEW

The Hubbell Compass CU2RC is a dual-head LED emergency light designed for commercial applications. It features a durable thermoplastic housing and adjustable lamp heads for versatile lighting direction.

Key Features:

- **Reliable Lighting:** Suitable for emergency or security backup in commercial areas such as pool areas, parking decks, hallways, offices. NFPA 101, NFPA 70, and OSHA certified.

- **Energy-Efficient:** LED system with a 10-year lifespan.

- **Extended Use Battery:** Nickel-cadmium battery provides 90 minutes of emergency power during outages.

- **Durable Material:** White high-impact flame-rated thermoplastic housing.

- **Mounting Versatility:** Can be mounted on walls or ceilings.

- **Dual-Voltage Input:** Supports 120/277 AC input.

- **Remote Capacity:** Ability to power up to two external indoor or outdoor remote lamps.

- **Test Switch:** Water-proof self-test switch for battery/charger monitoring.
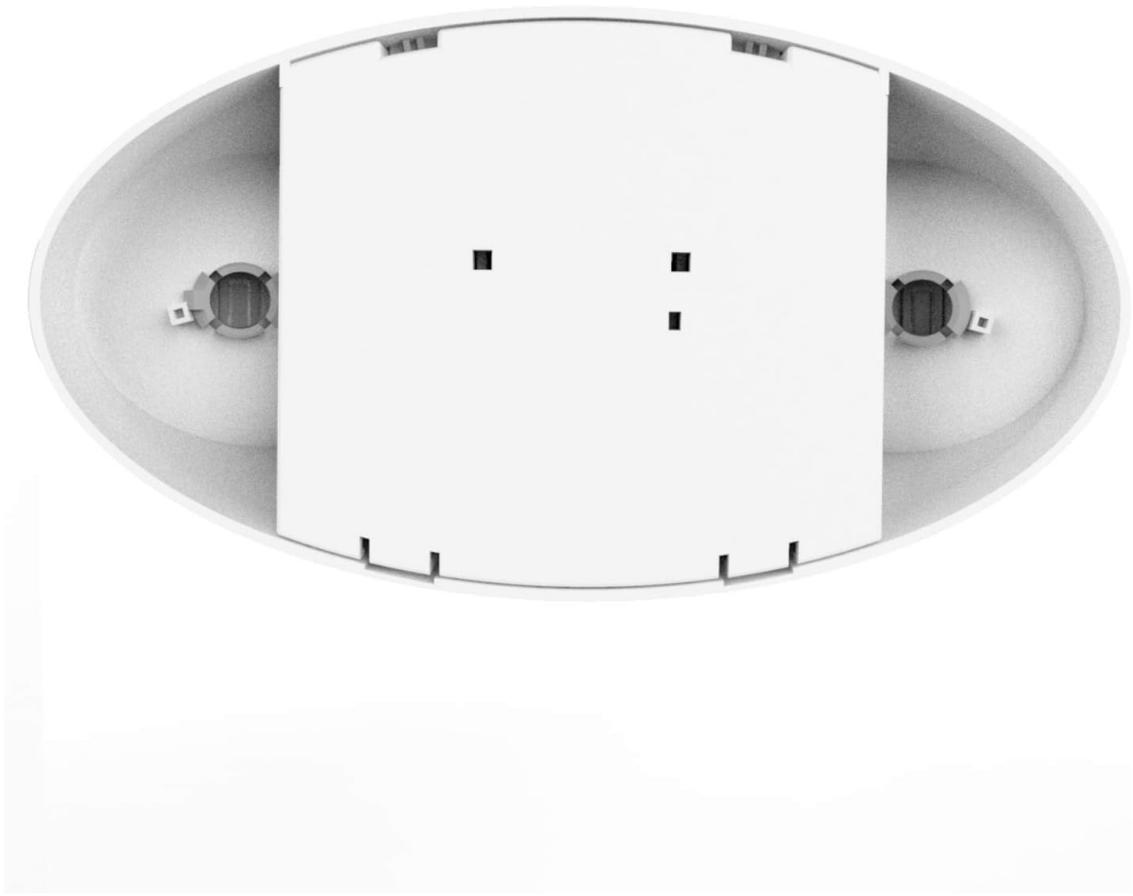
Image: Hubbell Compass CU2RC Emergency Light Features. This image highlights the white thermoplastic housing, remote capacity, fully adjustable lamp-heads, and the test button/AC-ON indicator.

Image: Emergency Light Usage Locations. This image indicates that the product is suitable for use in conditioned spaces, damp locations, stairwells, hallways, offices, retail, or commercial settings.

3. SPECIFICATIONS

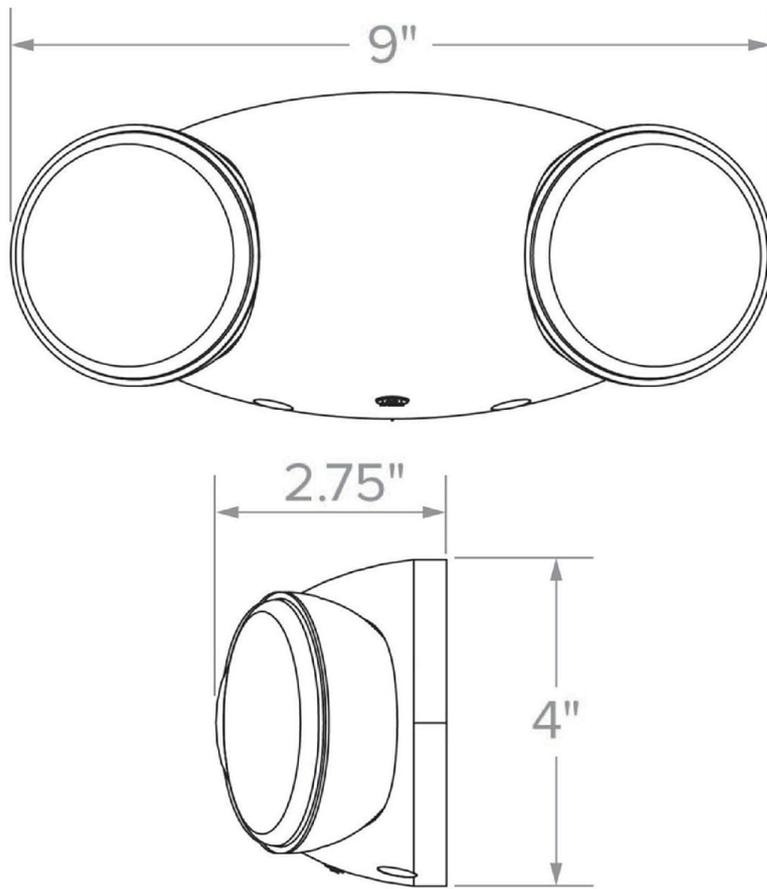| Feature	Detail
Model Number	CU2RC
Manufacturer	Compass (Hubbell)
Item Weight	1 pound
Product Dimensions	3 x 9 x 4 inches (Depth x Width x Height)
Color	White
Material	Plastic (Thermoplastic)
Power Source	AC/DC
Voltage	120/277 Volts (AC)
Wattage	1 watt

Type of Bulb	LED
Mounting Type	Ceiling Mount, Wall Mount
Battery Type	Nickel Oxyhydroxide (Product Specific, included)
Emergency Run Time	90 minutes
Certifications	NFPA 101, NFPA 70, OSHA, UL924, Title 20

SPECIFICATIONS

LED LIFE-CYCLE OF MORE THAN 10 YEARS

DUAL-VOLTAGE 20/277 AC INPUT

NICKEL CADMIUM BATTERY FOR UL RECOGNIZED 90 MINUTE EMERGENCY LIGHTING

Image: Product Dimensions Diagram. This diagram illustrates the unit's dimensions: 9 inches in width, 4 inches in height, and 2.75 inches in depth.

9"

2.75"

4"

Image: Key Specifications of Emergency Light. This graphic highlights the LED life-cycle of more than 10 years, dual-voltage 120/277 AC input, and the Nickel Cadmium battery for UL recognized 90-minute emergency lighting.

Image: Emergency Light Material and Finish. This image shows the product and specifies its material as thermoplastic and its finish as white.

4. INSTALLATION

The unit is designed for quick and easy installation. Ensure power is OFF before beginning any electrical connections.

4.1 J-Box Mounting

1. Feed fixture leads through main bottom case and connect AC power supply.
2. Connect wires through J-Box. Secure back plate on to J-Box with screws.
3. Connect battery only after AC power can be provided to the unit.
4. Align snaps and push housing directly onto back plate. Supply AC power and press "TEST" button to check light.

4.2 Conduit Mounting

1. Secure back plate to wall surface. Route wires through hole in conduit flange and make conduit connection.
2. Connect battery only after AC power can be provided to the unit.
3. Align snaps and push housing directly onto back plate. Supply AC power and press "TEST"
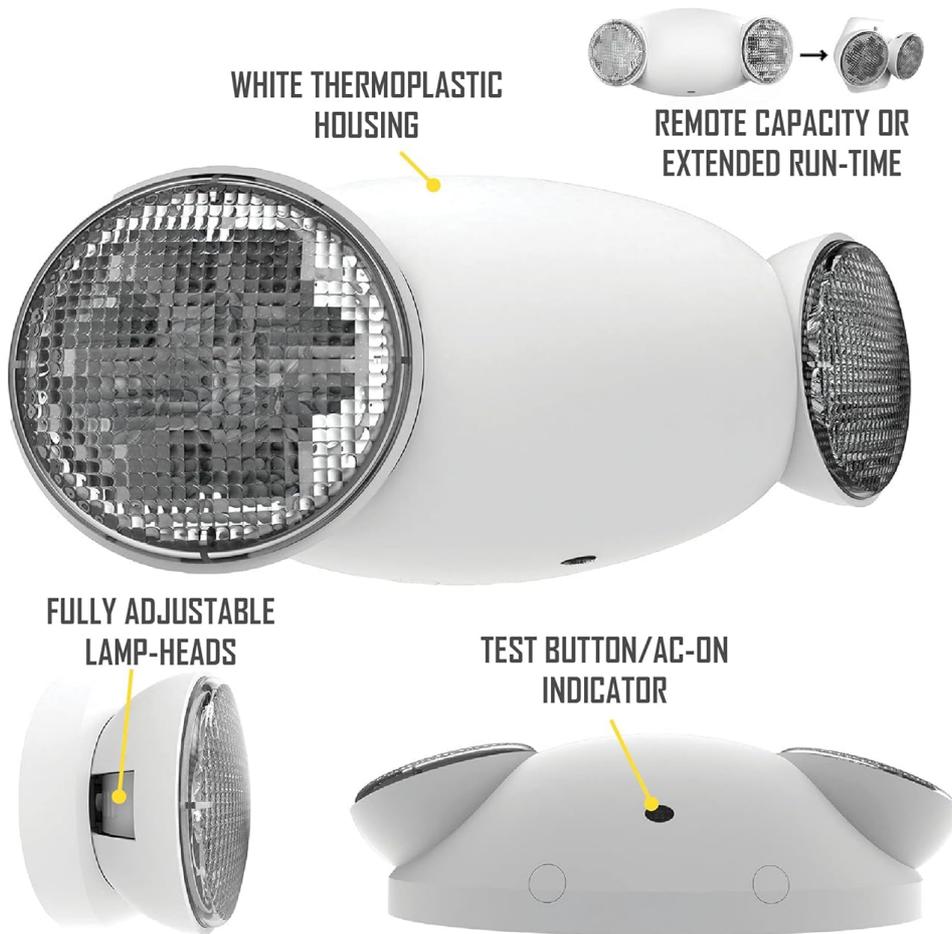
button to check light.

WHITE THERMOPLASTIC HOUSING

REMOTE CAPACITY OR EXTENDED RUN-TIME

FULLY ADJUSTABLE LAMP-HEADS

TEST BUTTON/AC-ON INDICATOR

Image: Installation Figure A: J-Box Mounting. This diagram shows the initial wiring connections for J-Box mounting.

J-Box Mounting

1. Feed fixture leads through back plate and connect AC power supply (Fig A).
2. Connect wires through J-Box. Secure back plate on to J-Box with screws.
3. Connect battery only after AC power can be provided to the unit (Fig. B).
4. Align snaps and push housing directly onto back plate (Fig. C). Supply AC power and press "TEST" button to check light.

Conduit Mounting

1. Secure back plate to wall surface . Route wires through hole in conduit flange and make conduit connection.
2. Connect battery only after AC power can be provided to the unit (Fig. B).
3. Align snaps and push housing directly onto back plate (Fig. C). Supply AC power and press "TEST" button to check light.
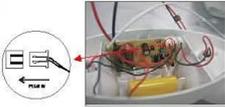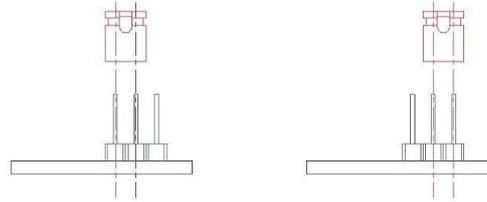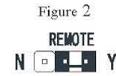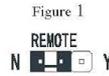
Fig. A (J-box)   Fig. B   Fig. C

Warning:
Unused wires must be capped using enclosed wirenuts.

1. During an electrical power failure, the lamps on the unit will automatically come ON for a minimum of 90 minutes.
2. To test this unit, let it charge correctly with AC power supply for a minimum of 24 hours after its first installation and then depress the "TEST" switch, the emergency lamps will illuminate. When the switch is released, the lamps will turn OFF.
3. For the unit with Self-Diagnostic, must connect as below:
   1)When customer doesn't need remote lamp,please insert terminal to N.(See Figure 1 below)
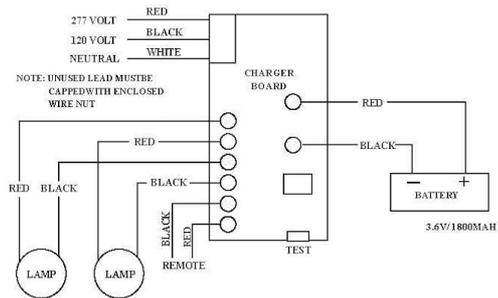   2) When customer needs remote lamp,please insert terminal to Y.(See Figure 2 below)

Figure 1   Figure 2

REMOTE   N □■□ Y   REMOTE   N □■□ Y

277 VOLT — RED
120 VOLT — BLACK
NEUTRAL — WHITE

NOTE: UNUSED LEAD MUSTBE CAPPEDWITH ENCLOSED WIRE NUT

CHARGER BOARD

RED
BLACK

BATTERY
3.6V/1800MAH

RED
RED BLACK — BLACK
BLACK RED — REMOTE
LAMP   LAMP

TEST

Image: Installation Figure B: Battery Connection. This diagram illustrates how to connect the battery within the unit.

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Life Safety Products by Hubbell Lighting, Inc.

CU2/CU2RC
LED Emergency Light

tradeSELECT

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Do not let power supply cords touch hot surfaces.
2. Do not mount near gas or electric heaters.
3. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
4. The use of accessory equipment not authorized by the manufacturer may cause an unsafe condition.
5. Do not use this equipment for other than its intended purpose.
6. Servicing of this equipment should be performed by qualified service personnel.

INSTALLER:
•SEE UNIT LABEL FOR ADDITIONAL MODEL SPECIFICATIONS
•SAVE THESE INSTRUCTIONS FOR USE BY OWNER/OCCUPANT

RECYCLING INFORMATION
All steel, aluminum and thermoplastic parts are recyclable.
All cartons contain recycled materials.
Please recycle responsibly.

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Image: Installation Figure C: Housing Assembly. This diagram shows the final step of aligning and pushing the housing onto the back plate.

J-Box Mounting

1. Feed fixture leads through main bottom case and connect AC power supply (Fig A).
2. Connect wires through J-Box. Main bottom case on J-Box and secure with screws.
3. Connect battery only after continuous AC power can be provided to the unit (Fig. B)
4. Align snaps and push housing directly onto main bottom case (Fig. C). Apply continuous AC power and   press "TEST" button to check light.

Conduit

1. Secure main bottom case to wall surface. Route wires through hole in conduit flange and make conduit connection.
2. Connect battery only after continuous AC power can be provided to the unit (Fig. B).
3. Align snaps and push housing directly onto main bottom case (Fig. C). Apply continuous AC power and   press "TEST" button to check light.
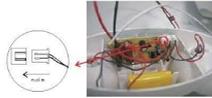
Fig. A (J-Box)   **Fig. B**   **Fig. C**

Warning:
Unused wires must be capped using enclosed wire nuts.

CU2RC

277 VOLT — RED
120 VOLT — BLACK
NEUTRAL — WHITE

NOTE: UNUSED LEAD TO BE PROPERLY INSULATED WITH WIRE NUT OTHER APPROVED METHOD.

CHARGER BOARD

RED

BLACK

BATTERY

3.6V/1800MAH

RED   BLACK

RED

BLACK

BLACK   RED

TEST

REMOTE

LAMP   LAMP

CU2

277 VOLT — RED
120 VOLT — BLACK
NEUTRAL — WHITE

NOTE: UNUSED LEAD TO BE PROPERLY INSULATED WITH WIRE NUT OTHER APPROVED METHOD.

CHARGER BOARD

RED

RED

BLACK

RED   BLACK

READY   TEST

BLACK

BATTERY

3.6V/900MAH

LAMP   LAMP

1. During an electrical power failure, the lamps will automatically come on for a minimum of 90 minutes.
2. To test, depress the "TEST" switch. The emergency lamps will illuminate. When the switch is released, the lamps will go off.
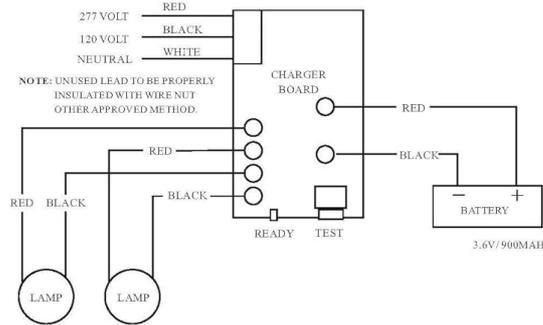
Image: Wiring Diagram for CU2RC. This diagram illustrates the electrical connections for the CU2RC model, including the charger board, battery, and lamp connections for both 120V and 277V inputs.

5. OPERATION

Once the unit is properly installed according to the installation instruction sheet and AC power supplied, it will come ON. The dual color LED indicator will also come ON and the self-diagnostic test function will automatically initiate.
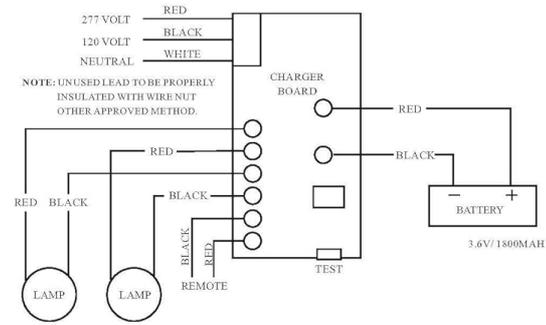
5.1 Initial Operation

- During an electrical power failure, the lamps on the unit will automatically come ON for a minimum of 90 minutes.
- To test this unit, let it charge correctly with AC power supply for a minimum of 24 hours after its first installation and then depress the "TEST" switch; the emergency lamps will illuminate. When the switch is released, the lamps will turn OFF.
- For the unit with Self-Diagnostic, connect as below:
    a. When customer doesn't need remote lamp, please insert terminal to N.
    b. When customer needs remote lamp, please insert terminal to Y.

5.2 Self-Diagnostic Service

The self-diagnostic function is factory preset without any allowable field adjustment. The automatic self-diagnostic feature serves the following tests:

- On-line real time monitoring of battery and lamps (both local and remote) indicates battery charging, disconnection and failure along with local and remote lamp failures.
- Self-testing and a 15-minute discharge once every 30 days, after AC power has been supplied for a minimum of 24 hours.

- Self-testing and a 90-minute discharge once every year, after AC power has been supplied for a minimum of 24 hours.

5.3 Manual Testing

The unit also provides for manual testing by pushing the test button in a specific pattern. The different patterns and the resulting tests are listed in the table below:

Action	Reaction & LED Indication
Push test button Once (within 2 seconds)	30-second test: FLASHING Green
Push test button Twice (within 2 seconds)	15-minute test: Green BLINKING twice
Push test button Three times (within 2 seconds)	90-minute test: Green Blinking three times

COMPASS

Self-Diagnostic Test
Instructions

Introduction

Once the unit is properly installed according to the installation instruction sheet and AC power supplied it will come ON. The dual color LED indicator will also come ON and the self-diagnostic test functioin will automatically initiate. The LED indicator points out the current unit status. A STEADY GREEN on the LED indicates a normal service; BLINKING GREEN indicates that the unit is in testing mode; GREEN/RED FLASHING indicates that the battery is charging; RED (in different combinations) indicates a fault or a service alert. Refer to the section 3-Fault Indication for more detail. The indicator is OFF when the unit is in emergency mode.

Self-Diagnostic Service

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c. Self-testing and a 90-mintue discharge once every year, after AC power has been supplied for a minimum of 24hrs.

Fault Indication

Fault Description	LED IN
Battery Disconnection	STEADY Red
Bettery Recharge Failure	FLASHING Red
Battery Failure	Red BLINKING '2' TIMES
LED Failure (Exits Only)	Red BLINKING '3' TIMES
Remote Lamp Failure (Emergency Lights Only)	Red BLINKING '4' TIMES

Manual Testing

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Push test button Once (within 2 seconds)	30-second test: FLASHING Green
Push test button Twice (within 2 seconds)	15-minute test: Green BLINING twice
Push test button Three times (within 2 seconds)	90-minute test: Green Blinking three times

WARNING:
i) Make Sure that power is OFF before making any Electrical Connections.
ii) Unused wires must be capped using enclosed wire nuts.

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Image: Self-Diagnostic and Manual Testing Instructions. This image details the self-diagnostic service features, fault indications with corresponding LED signals, and a table for manual testing procedures and their outcomes.

6. MAINTENANCE

The emergency light unit requires minimal maintenance. Regular testing ensures the battery and lamps are functioning correctly.

6.1 Battery Maintenance

The unit is equipped with a long-life nickel-cadmium battery. The self-diagnostic feature automatically performs monthly 15-minute tests and annual 90-minute tests to ensure battery health. If a battery failure is indicated (Red BLINKING '2' TIMES), the battery may need replacement.

6.2 Cleaning

Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

7. TROUBLESHOOTING

The self-diagnostic system provides fault indications via the LED. Refer to the table below for common fault descriptions and their corresponding LED indications.

Fault Description	LED Indication
Battery Disconnection	STEADY Red
Battery Recharge Failure	FLASHING Red
Battery Failure	Red BLINKING '2' TIMES
LED Failure (Exits Only)	Red BLINKING '3' TIMES
Remote Lamp Failure (Emergency Lights Only)	Red BLINKING '4' TIMES

If a fault persists after attempting basic troubleshooting, contact qualified service personnel.

8. WARRANTY INFORMATION

Hubbell Lighting, Inc. ("Hubbell") warrants to the original end user that its products will be free from defects in material and workmanship for the periods specified below.

- **Full Unit Warranty:** 2 years from the date of shipment.
- **LED Fixtures and LED Drivers:** 5 years from the date of shipment.
- **Batteries:** 90 days from the date of shipment.

This warranty is subject to certain exclusions and limitations. For complete warranty details, refer to the full unit warranty document provided with the product or available from Hubbell Lighting, Inc.

Limitation of Liability: In no event shall Hubbell be liable for any indirect, special, incidental, consequential, exemplary, punitive or multiple damages, even if informed of the possibility of such damages.

Image: Product Certifications and Hubbell Warranty. This image displays various certifications such as UL924, Title 20, NFPA 70, NFPA 101, and the Hubbell Warranty shield, indicating compliance and product assurance.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or additional information, please contact Hubbell Lighting customer service.

Visit the official Hubbell Lighting website for more resources: www.hubbell.com/hubbelllighting/en