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Cooper Lighting EUR70R

Cooper Lighting EUR70R LED Edge-Lit Exit Sign Instruction Manual

Model: EUR70R

1. PRODUCT OVERVIEW

The Cooper Lighting Sure-Lites® EU Series EUR70R is a self-powered, LED edge-lit exit sign designed for recessed mounting. It features a red 'EXIT' legend and operates on 120/277 Volts AC. This unit provides reliable emergency illumination for egress pathways.

Key features include:

- Self-powered operation with an internal sealed lead calcium battery.
- Energy-efficient LED illumination.
- Anodized aluminum construction for durability.
- Recessed mounting for a clean aesthetic.
- Solid state, voltage limited charger.
- Low-voltage disconnect to protect the battery.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before installation or servicing.

- All electrical connections must be made in accordance with local codes, ordinances, and the National Electric Code (NEC).
- Installation should be performed by qualified personnel.
- Ensure the supply voltage is compatible with the fixture (120/277V AC).
- Do not mount near gas or electric heaters.
- Do not allow power supply cords to be pinched or damaged.
- The battery is an integral component and is not user-replaceable.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- EUR70R LED Edge-Lit Exit Sign unit
- Die-cast canopy (for mounting)
- Installation hardware (screws, wire nuts, etc. - may vary)
- Instruction sheet (this document)

4. INSTALLATION (SETUP)

This exit sign is designed for recessed mounting. Follow these steps for proper installation:

1. **Prepare the Mounting Location:** Ensure the ceiling or wall opening is appropriately sized for recessed installation. The product dimensions are approximately 14.25 inches (L) x 12.88 inches (W) x 0.4 inches (D). Ensure there is sufficient depth and clearance for the fixture and wiring.
2. **Disconnect Power:** Turn off the electrical power at the circuit breaker or fuse box before proceeding.
3. **Wiring Connections:**
 - Connect the building's AC supply wires to the corresponding wires on the exit sign.
 - The unit is designed for 120V or 277V AC input. Connect the appropriate voltage wires as per the wiring diagram provided with the unit (refer to specific wiring labels on the fixture).
 - Ensure all connections are secure using approved wire connectors.
 - Connect the ground wire.
4. **Mounting the Fixture:**
 - Carefully insert the exit sign into the prepared recessed opening.
 - Secure the fixture using the provided mounting hardware and die-cast canopy, ensuring it is flush and stable.
5. **Initial Power-Up and Battery Charge:**
 - Restore AC power to the circuit.
 - The unit's internal battery will begin charging. Allow at least 24 hours for the battery to achieve a full charge before conducting any discharge tests.
 - Observe the charging indicator light (if present) to confirm proper operation.



Figure 1: Cooper Lighting EUR70R LED Edge-Lit Exit Sign. This image shows the front view of the exit sign with the red 'EXIT' legend, indicating its sleek, recessed design.

5. OPERATION

The EUR70R exit sign operates automatically:

- **AC Power Present:** When normal AC power is supplied, the LED 'EXIT' legend will be illuminated, and the internal battery will be charged and maintained by the solid-state charger.
- **AC Power Failure:** In the event of an AC power interruption, the unit will automatically switch to battery power, illuminating the 'EXIT' legend for a minimum duration as required by safety codes. The low-voltage disconnect feature prevents deep discharge of the battery.
- **AC Power Restored:** When AC power is restored, the unit will automatically switch back to AC operation, and the battery will begin recharging.

6. MAINTENANCE

Regular maintenance ensures the reliable operation of your exit sign.

- **Monthly Test:** Press and hold the test button (if present) for 30 seconds. The 'EXIT' legend should remain illuminated. Release the button; the legend should return to normal operation.
- **Annual Test:** Disconnect AC power to the unit for 90 minutes. The 'EXIT' legend should remain illuminated for the entire duration. Reconnect AC power after the test.
- **Cleaning:** Clean the sign's surface with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** The sealed lead calcium battery has a typical lifespan. If the unit fails to meet the required emergency illumination duration during testing, the battery may need replacement. This should be performed by qualified service personnel.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
'EXIT' legend does not illuminate on AC power.	No AC power to the unit. Faulty wiring connection. LED failure.	Check circuit breaker/fuse. Verify wiring connections. Contact qualified service personnel.
'EXIT' legend does not illuminate during power failure or test.	Battery not charged. Battery failure. Internal circuit fault.	Allow 24 hours for initial charge. Perform annual test; if failure persists, battery may need replacement by qualified personnel. Contact qualified service personnel.
Unit does not stay illuminated for required duration during test.	Battery not fully charged. Battery nearing end of life.	Ensure unit has been on AC power for at least 24 hours. Battery may need replacement by qualified personnel.

8. SPECIFICATIONS

- Model:** EUR70R
- Brand:** Cooper Lighting Sure-Lites®
- Input Voltage:** 120/277 Volts AC
- Power Rating (AC):** 3.6 Watts (120V), 4.5 Watts (277V)
- Light Source:** LED
- Legend Color:** Red 'EXIT'
- Mounting Type:** Recessed
- Construction Material:** Anodized Aluminum
- Dimensions:** 14.25 inches (L) x 12.88 inches (W) x 0.4 inches (D)
- Weight:** Approximately 2 pounds
- Battery Type:** Sealed Lead Calcium (internal, non-user replaceable)
- ASIN:** B018HR72YY
- UPC:** 993520725594

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Cooper Lighting customer service. Retain your proof of purchase for warranty claims. Specific warranty terms and conditions may vary and are typically provided at the time of purchase or on the manufacturer's official website.

Manufacturer: Cooper Lighting

