

WARNING

Risk of Fire/Electric Shock

If not qualified, consult an electrician.



EBPLED Class 2 Output

For use in
temperature rating
0°C to 55°C

WARNING

Risk of Electric Shock

Disconnect power at fuse or circuit breaker before installing or servicing

CONTAINS NICKEL-CADMIUM
RECHARGEABLE BATTERY.
MUST BE RECYCLED OR
DISPOSED OF PROPERLY.



ENGLISH

Important Safeguards

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE OBSERVED INCLUDING THE FOLLOWING

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS
2. Do not use outdoors.
3. Do not mount near gas or electric heaters.
4. Equipment should be mounted in locations and at adequate heights to prevent tampering by unauthorized personnel.
5. The use of accessory equipment not recommended by Cooper Lighting Solutions may cause an unsafe condition and will void the warranty.
6. Do not use this equipment for other than its intended purpose.
7. Not for use with sealed and gasketed fixtures.
8. SAVE THESE INSTRUCTIONS.

NOTES:

1. To prevent voltage from being present on the output wires (Red/White & Blue/White), do not connect the test button assembly to the EBP or insure the EZ key is securely in place.
2. This product is for use with LED fixtures with loads capable of the output wattage and forward voltage within the ranges below

	Output Power (W)	MinVf (V)	Max Vf (V)
14W Versions	14	16	55

3. Make sure all the connections are in accordance with the National Electrical Code and any local regulations.
4. To reduce the risk of electrical shock, disconnect both normal and emergency power supplies, including the test button indicator light (which disconnects the battery) before servicing. Ensuring the battery disconnect (EZ Key) is securely in place also prevents battery powered operation.
5. These emergency battery packs can be field, or factory installed depending on version. See mounting section for details.
6. This product is for use in indoor fixtures only. Do NOT use near heated air handling outlets, wet locations or hazardous locations.
7. An un-switched AC power source is required. (120 - 277 volts 50/60 HZ) for proper operation.
8. The sealed, no-maintenance battery is field replaceable. Contact the manufacturer for information on replacement if needed.
9. All maintenance should be performed by qualified service personnel.

FEATURES

This emergency battery pack (EBP) includes extra features which enhance its operation and maintainability.

1. **Patented EZ key battery disconnect:** When the EZ key is inserted into the test button, the battery is disconnected. This feature prevents unnecessary cycling of the battery during the construction process. It can also be used if the room is decommissioned for an extended period to prevent the batteries from being over discharged.
2. **Patent pending Test Button / Indicator Light / Laser Input:** The test button houses the EZ key, powers the indicator light, contains the laser input for testing and functions as the mechanical test button. Integration of these functions improves performance and fixture aesthetics.
3. **Power controlled output:** This feature maintains consistent light output during the entire 90 minutes of emergency operation ensuring there is no drop in lumen output as the battery voltage drops
4. **Self Diagnostics Testing:** The unit will perform a battery capacity, lamp/LED, and charge circuit test every 30 days for 30 seconds. During this time, the indicator LED will change to a steady yellow. It will perform a full battery capacity (90 minute) test once per year. During this time, the indicator LED will change to a blinking yellow.

Field Installation Classification

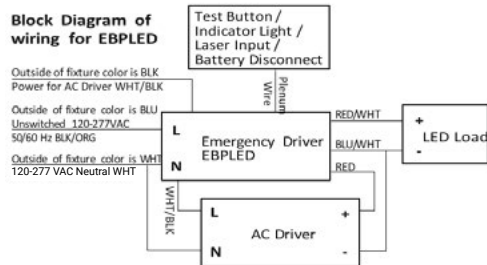
1. Determine electrical compatibility with fixture: Verify the emergency driver wattage (14 watts) does not exceed the driver's AC input. Also, verify that the forward voltage of the LEDs is within the operating parameters of the selected model (see table below).

	Output Power (W)	MinVf (V)	Max Vf (V)
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2. **Calculate Lumen output during emergency operation:** Go to the website www.designlights.org and identify the light fixture by using the available search criteria. Determine the fixture rated data – efficacy in lumens/watt. Multiply the fixture efficacy by the output wattage of the selected emergency battery pack to determine the lumen output of the fixture during emergency operation.
Example: Fixture efficacy = 100 lumens/watt
EBPLED14WSD provides 14 watts of constant power
Fixture output = 100 lumens/watt X 14 watts = 1400 lumens during emergency operation
3. **Insure means of egress lighting levels:** Follow industry standard methods of lighting layout to determine placement of emergency battery pack equipped fixtures. Verify the selected EBP will provide enough lumen output to meet path of egress illumination requirements.

INSTALLATION

- 1. Mounting** The EBP can be mounted inside a fixture channel, on the back of a fixture, or near the fixture. The flex conduit should be connected to a junction enclosure which allows access to the wiring connections for grounding.
(Note: EBP assemblies without conduit must be factory installed in the wireway of the fixture).
- 2. Wiring** Refer to the block diagram below for the wiring of the LED load, AC driver, and AC power. The unswitched AC power for the EBP and the power for the AC driver should be from the same branch circuit to prevent disconnecting two (2) sources of power and the battery during servicing.



- 3. Mounting the Test Button / Indicator Light / Laser Input** Mount the Test Button / Indicator Light / Laser Input so the indicator light is visible once the fixture is installed. Proper mounting is required for accessibility and functionality of the laser input testing feature and EZ key battery disconnect.

OPERATION

Once AC power is permanently applied to the blue wire of the fixture, remove the EZ key and store it if desired for later use. The Sure-Lites Eagle Eye Self Diagnostics is continuously monitoring your emergency fixture and will signal any failure through the 3-color indicator LED.

SELF DIAGNOSTICS TESTING

The unit will perform a battery capacity, lamp/LED, and charge circuit test every 30 days for 30 seconds. During this time, the indicator LED will change to a steady yellow. It will perform a full battery capacity (90 minute) test once per year. During this time, the indicator LED will change to a blinking yellow.

MANUAL TESTING

- 10 Second "Installation" test – Press and release the test button once during fast charge (blinking green) to initiate a 10 second quick test. The sign will switch to emergency mode for 10 seconds allowing the installer to verify proper installation of the unit, and the LED indicator will turn solid yellow.
- 30 Second Test - Press and release the test button once during float charge (steady green). The indicator LED will turn steady yellow to indicate the unit is performing a 30 second test of the batteries and lamps/ LEDs.
- 90 Minute Test - Press and release the test button a second time during a 30 second test (steady yellow) to change to a 90-minute test. During this test, the LED indicator will change to blinking yellow, and the circuit will perform a full battery capacity, charge circuit, and LED test.
- Canceling Test – Press and release the test button during the 90-minute test (flashing yellow) to return the fixture to its original state (fast charge or float charge).

CLEARING FAILURE CODES

- A battery failure (LED two blink red) can be cleared by replacing the battery. Disconnecting the battery and AC power, or performing a full 90-minute discharge, will reset the error code, however, it will return if the battery is faulty.
- Charge Circuit (LED three blink red) and lamp/LED failure (LED four blink red) will clear when the unit successfully passes a manual or automatic 30 second test.

INDICATORS

- LED Off - No power to unit, emergency mode.
- LED Steady Green - Unit is fully charged and is float charging the battery to maintain readiness.
- LED Green Pulse - Unit is in a 24-hour fast charge of the battery.
- LED Two Blink Red - Battery has failed a capacity test, or the battery is disconnected. See "Clearing Failure Codes" above.
- LED Three Blink Red - Battery charge circuit has failed. See "Clearing Failure Codes" above.
- LED Four Blink Red - Lamps have burned out, or on an EXIT/Combo, 10% or more of the LEDs have failed. See "Clearing Failure Codes" above.
- LED Steady Yellow - 30 second test or 10 second quick test (Fast Charge only).
- LED Blinking Yellow - 90-minute test.

MAINTENANCE

None required. Replace the batteries as needed according to ambient conditions. Equipment should be tested every 30 days in accordance with local codes.

Refer any service requirements indicated by these checks to qualified personnel.

TROUBLESHOOTING GUIDE

If LED heads or charge indicator LED does not illuminate, check the following:

1. Check AC supply – verify that unit has 24-hour AC supply.
2. Unit is shorted or battery is not connected.
3. Battery discharged. Permit unit to charge for 24-hours and then re-test.
4. If following the above trouble shooting hints does not solve your problem, contact your local Cooper Lighting Solutions representative for assistance

5-YEAR LIMITED WARRANTY

THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Cooper Lighting Solutions warrants to customers that, for a period of five years from the date of purchase, Cooper Lighting Solutions products will be free from defects in materials and workmanship. The obligation of Cooper Lighting Solutions under this warranty is expressly limited to the provision of replacement products. This warranty is extended only to the original purchaser of the product. A purchaser's receipt or other proof of date of original purchase acceptable to Cooper Lighting Solutions. This is required before warranty performance shall be rendered. This warranty does not apply to Cooper Lighting Solutions products that have been altered or repaired that have been subjected to neglect, abuse, misuse or accident (including shipping damages). This warranty does not apply to products not manufactured by Cooper Lighting Solutions which have been supplied, installed, and/or used in conjunction with Cooper Lighting Solutions products. Damage to the product caused by replacement bulbs or corrosion or discoloration of brass components are not covered by this warranty.

LIMITATION OF LIABILITY:

IN NO EVENT SHALL COOPER LIGHTING SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, STRICT LIABILITY, OR IN TORT INCLUDING NEGLIGENCE), NOR FOR LOST PROFITS; NOR SHALL THE LIABILITY OF COOPER LIGHTING SOLUTIONS FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THESE TERMS OR THE MANUFACTURE, SALE, DELIVERY, USE, MAINTENANCE, REPAIR OR MODIFICATION OF COOPER LIGHTING SOLUTIONS PRODUCTS, OR SUPPLY OF ANY REPLACEMENT PARTS THEREFORE, EXCEED THE PURCHASE PRICE OF COOPER LIGHTING SOLUTION PRODUCTS GIVING RISE TO A CLAIM. NO LABOR CHARGES WILL BE ACCEPTED TO REMOVE OR INSTALL FIXTURES.

To obtain warranty service, please contact Cooper Lighting Solutions, at 1-800-334-6871, press option 2 for Customer Service, or via e-mail ConsumerProducts@cooperlighting.com and include the following information:

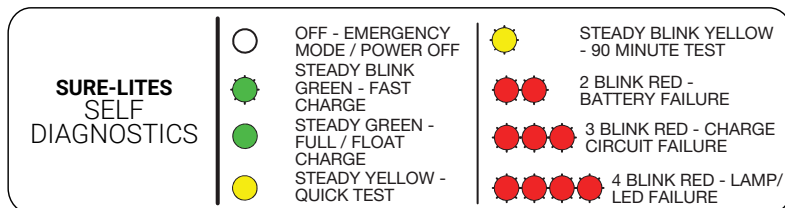
- Name, address and telephone number
- Date and place of purchase
- Catalog and quantity purchase
- Detailed description of problem

All returned products must be accompanied by a Return Goods Authorization Number issued by the Company and must be returned freight prepaid. Any product received without a Return Goods Authorization Number from the Company will be refused. Cooper Lighting Solutions is not responsible for merchandise damaged in transit. Repaired or replaced products shall be subject to the terms of this warranty and are inspected when packed. Evident or concealed damage that is made in transit should be reported at once to the carrier making the delivery and a claim filed with them.

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For assistance, call 1-800-334-6871 or e-mail us at ConsumerProducts@cooperlighting.com

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