

Self-Testing/Self-Diagnostic Models

SPECTRON®

All models ordered with the Spectron self-testing/self-diagnostic electronics system provide:

- Visual indication of AC power status
- Visual Indication of all self-diagnostic test cycles
- Visual indication of unit malfunctions including:
 - Battery fault
 - Charger fault
 - Transfer fault
 - Lamp fault

Bi-Color Status Indicator LED

Self-testing/self-diagnostic model units are provided with a single, bi-color LED which serves as a combination AC power, self-test and service alert status indicator. During normal operation, the green status LED will be constantly illuminated, indicating the presence of AC power. During all automatic or manual self-test cycles, the green Status LED will blink at a one cycle per second rate indicating "Test In Progress". If a fault condition is detected during any automatic or manual self-test cycle, the Status Indicator will illuminate alternately red and green until the end of the test cycle in a coded sequence to indicate the type of detected malfunction.

Under normal operating conditions, the unit's red LED Status Indicator will remain off. Following any test cycle in which a malfunction is detected, the red Service Alert LED will blink in a coded sequence indicating the type of malfunction as shown in the following table:

Service Alert Code	Description
One blink ON/pause	Battery not connected
Two blinks ON/pause	Battery fault
Three blinks ON/pause	Charger fault
Four blinks ON/pause	Transfer circuit fault
Five blinks ON/pause	Lamp failure
Six blinks ON/pause	Lamp calibration error ⁽¹⁾
Seven blinks ON/pause	Lamp overload condition

(1) See "Calibrating the Lamp Load" at right.

Calibrating the Lamp Load

Check to assure that lamps are of correct voltage and wattage and properly seated in the lamp sockets. Press and HOLD the test switch. The unit's attached lamp load will illuminate and then turn off after several seconds and re-illuminate several seconds later. Release the test switch. The green status LED will be flashing at a slow rate to indicate calibration cycle in process. Upon completion of the calibration cycle, the lamps will extinguish and the status LED will illuminate in a steady green state indicating the unit is in ready stand-by mode.

Manual Test

Using the unit test switch, users can initiate different duration test cycles based on the following table:

Initiating Action	Test Cycle
Press test switch once	1 minute
Press test switch twice	5 minute
Press test switch 3 times	30 minute
Press test switch 4 times	60 minute

Pressing test switch at any time after a test cycle has begun cancels remainder of test and returns unit to normal operation. The test switch can also be used to manually silence the audible alarm option (see below) by depressing the switch until an audible beep is sounded.

Audible Alarm (Optional)

Self-testing/self-diagnostic model units ordered with the optional audible alarm feature provide an audible alert upon detection of a fault condition during any manual or automatic test cycle. The audible alarm will sound once every hour until the fault is corrected or the alarm is manually silenced. Audible alarm will automatically re-enable after 24 hours if manually silenced.

TROUBLE SHOOTING

AC-On Light does not illuminate

- Check AC wiring connections.

Emergency lamps do not work

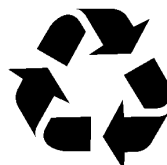
- Battery is shipped disconnected. Connect leads from PC board to battery terminals and charge before testing.
- Make sure connections to charger board are properly seated.
- Check wiring connections.

MAINTENANCE

Units should be tested and maintained in accordance with National Electrical Code and NFPA 101 Life Safety Code requirements. It is recommended that emergency lighting units be tested for 30 seconds once a month and for 90 minutes once a year.

RECYCLING INFORMATION

All thermoplastic parts are recyclable. All cartons contain recycled materials. Please recycle.



NOTICE:

Units contain rechargeable batteries which must be recycled or disposed of properly.

LAMP REPLACEMENT

CAUTION: Halogen lamps operate at high temperatures. Allow defective lamp to cool completely before attempting replacement.

1. Remove unit cover/lens assembly.
2. Pull defective lamp from socket.
3. Plug replacement lamp into socket.

CAUTION: Do not touch replacement lamp glass envelope with bare fingers as damage to the lamp will result. Follow directions supplied with replacement lamp.

4. Reinstall unit cover/lens assembly and test unit.

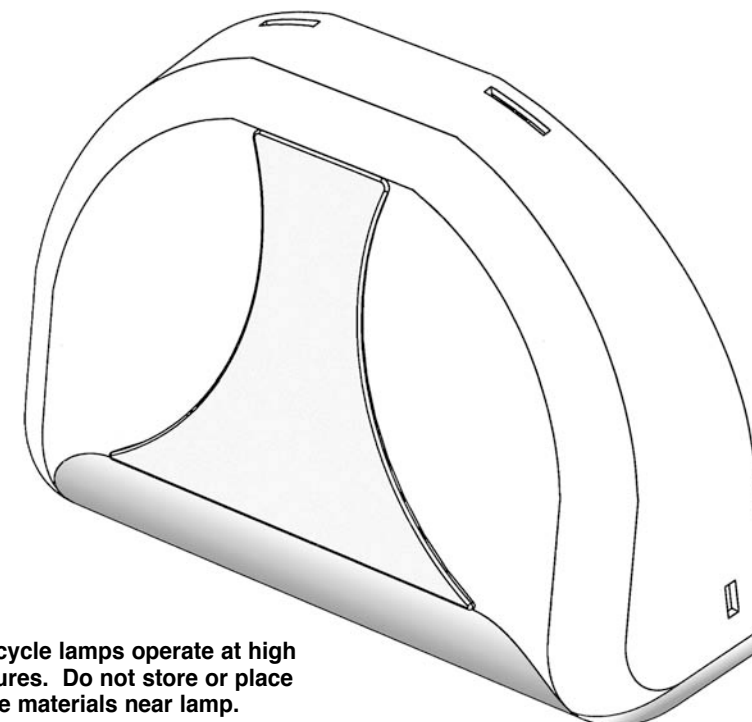


Hubbell Lighting, Inc.



High Output Emergency Lighting Units

Installation Instructions



Halogen cycle lamps operate at high temperatures. Do not store or place flammable materials near lamp.

IMPORTANT SAFEGUARDS

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.

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Do not use outdoors.
 2. Do not let power supply cords touch hot surfaces.
 3. Do not mount near gas or electric heaters.
 4. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
 5. The use of accessory equipment not authorized by the manufacturer may cause an unsafe condition.
- Caution:** Halogen cycle lamps are used in this equipment. To avoid shattering: Do not operate lamp in excess of rated voltage. Protect lamp against abrasion and scratches and against liquids when lamp is operating. Dispose of lamp with care.
6. Do not use this equipment for other than its intended purpose.
 7. Service of this equipment should be performed by qualified service personnel.

SAVE THESE INSTRUCTIONS



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Installation Instructions

DUAL LITE Performance Guarantee LiteScape

Dual-Lite guarantees the LiteScape unit will fully meet the 2003 edition of the NFPA 101 Life Safety Code emergency lighting requirements by providing an average of one footcandle of illumination along the path of egress as defined in the illustration below.

Center to Center Mounting Information

7.5 ft.
3-Foot Wide Standard Illumination Path Setting = 40 Foot Centers
6-Foot Wide Optional Illumination Path Setting = 30 Foot Centers

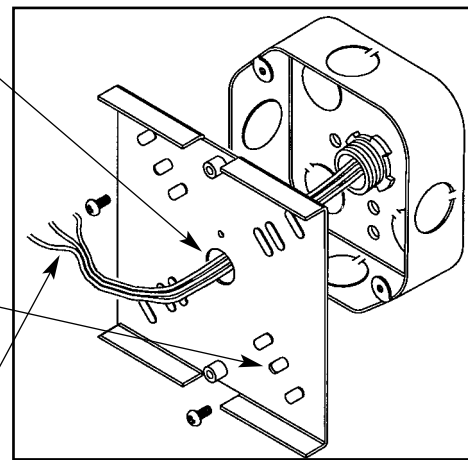
NOTE: The LiteScape unit must be installed per factory instructions provided and properly maintained. In addition, the pathway to be illuminated must meet the minimum surface reflectance values shown at right to qualify for guaranteed illumination performance.

Minimum Reflectance Values Required:
Ceiling: 80% Walls: 50% Floor: 20%

The LiteScape Performance Guarantee applies solely to units mounted 7.5 feet above the floor surface. For information on lighting performance at other mounting heights, refer to LiteScape Series Mounting Guide on the LiteScape product page in the Dual-Lite web site's on-line catalog. The LiteScape Performance Guarantee is subject to all conditions as outlined in the Product Warranty Statement on the Dual-Lite public web site (www.dual-lite.com) and applies only to the installation's initial emergency lighting inspection by the authority having jurisdiction.

1. Open unit by depressing locking tabs at sides of housing. Rotate unit cover up and off upper backplate tabs to remove. Loosen velcro battery retaining strap and remove battery. Remove and discard battery packing material. Loosen the two screws securing the metal mounting plate to the backplate assembly. **Retain screws for later use.**

2. Remove 3/4" center KO in mounting plate.



3. Remove appropriate mounting plate KO's for electrical box screws.

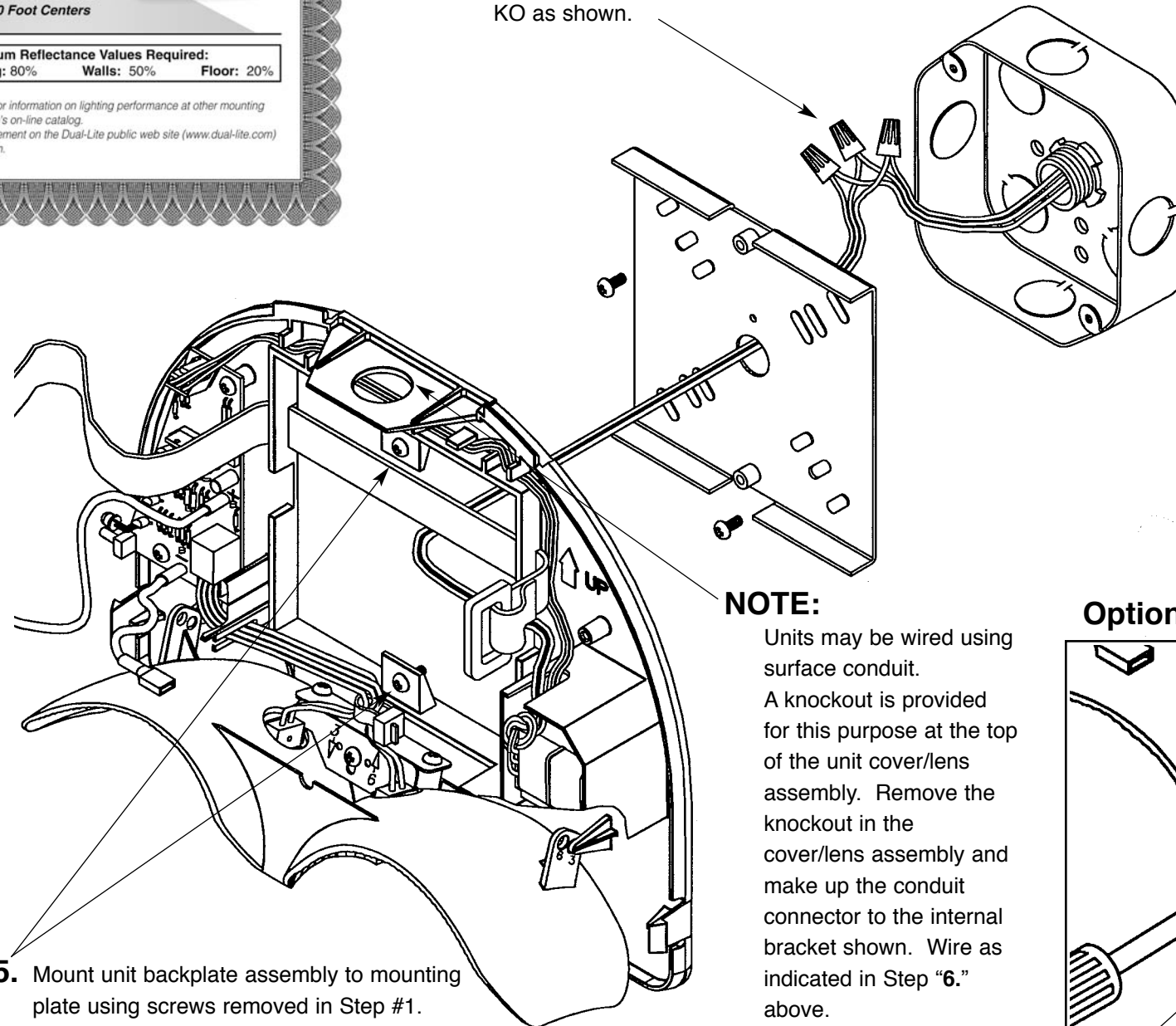
4. Feed wires through center KO as shown and secure mounting plate using screws supplied with electrical box.

6. Connect building wires to transformer leads.

- **Black and white wires for 120V** (Cap off red wire)
- **Red and white wires for 277V** (Cap off black wire)
- **Brown and blue wires for optional 220/240V**

Connect building ground to green pigtail lead on transformer. Ground metal mounting plate as well if plastic electrical box is used.

Feed wires back into electrical box through center KO as shown.



NOTE:

Units may be wired using surface conduit. A knockout is provided for this purpose at the top of the unit cover/lens assembly. Remove the knockout in the cover/lens assembly and make up the conduit connector to the internal bracket shown. Wire as indicated in Step "6." above.

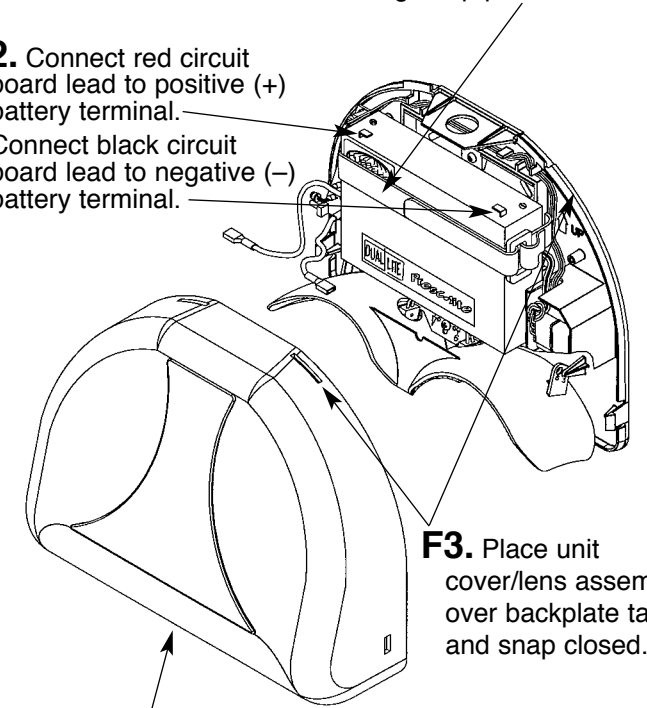
5. Mount unit backplate assembly to mounting plate using screws removed in Step #1. Tighten screws until backplate assembly is flush with wall surface.

CAUTION: Do not over-tighten mounting screws as damage to the backplate assembly may result.

Final Assembly

F1. Position battery in backplate assembly as shown and secure with velcro retaining strap provided.

F2. Connect red circuit board lead to positive (+) battery terminal. Connect black circuit board lead to negative (-) battery terminal.

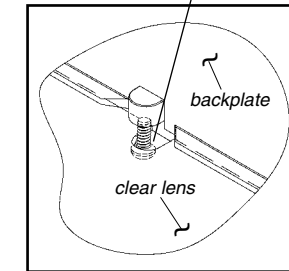


F3. Place unit cover/lens assembly over backplate tabs and snap closed.

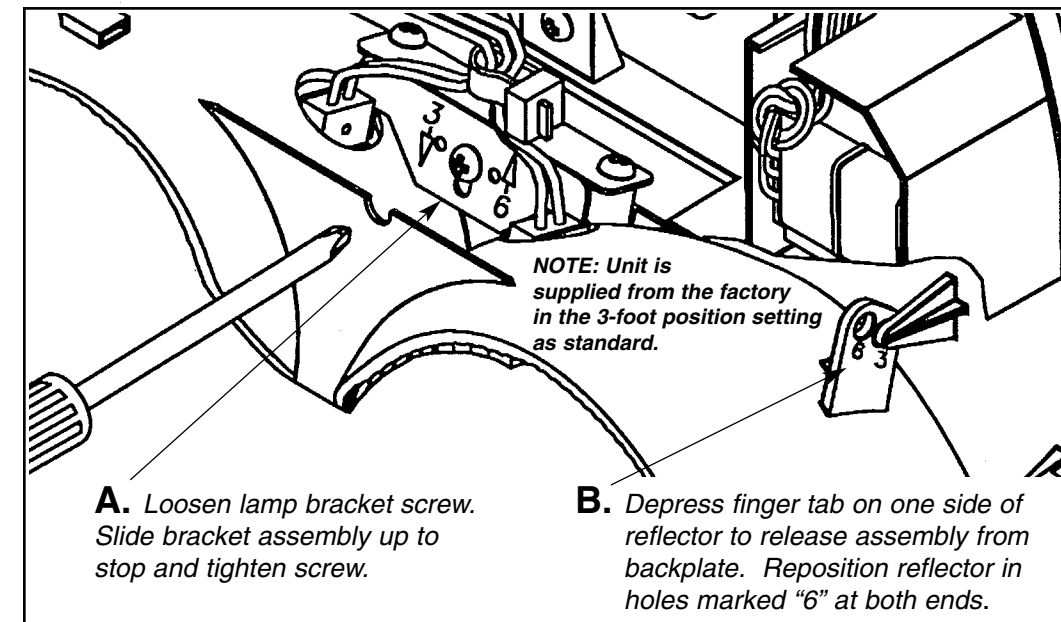
Security Screw (optional)

IMPORTANT. Security screw installation is not mandatory but may be installed if desired to provide an added measure of security against tampering.

A. Drill clearance hole in clear lens for #8 screw from inside using oval relief as drill guide. Install #8 x 3/8" long self-threading screw.



Optional 6-Foot Illumination Path Adjustment Procedure



A. Loosen lamp bracket screw. Slide bracket assembly up to stop and tighten screw.

B. Depress finger tab on one side of reflector to release assembly from backplate. Reposition reflector in holes marked "6" at both ends.

NOTE: Unit is supplied from the factory in the 3-foot position setting as standard.