

Post Top Street Light LED Retrofit Kit

INSTALLATION GUIDE



This SYLVANIA LED Retrofit Kit replaces up to 250-watt high-intensity discharge (HID) lamps in street light fixtures. By taking advantage of the directional light distribution of high power white LEDs, this revolutionary system delivers light only where needed, minimizing light trespass in applications. It is an ideal solution for communities that wish to convert their existing street lights to an environmentally preferable technology that offers substantial energy and maintenance cost savings as well as dramatic improvements in light quality. It is mercury-free, lead-free, and eliminates service calls for cycling the HID lamps

WARNING

PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

- To prevent personal injury or product damage only licensed electricians should provide all installation services.
- Failure to install this product in accordance with the National Electric Code (NEC), or the Canadian Electrical Code (CSA 22.1), all applicable Federal, State and local electric codes as well as the specific Underwriters Laboratories (UL) safety standards for the installation, location and application may cause unsafe situations leading to serious personal injury, death, property damage and/or product malfunction.
- To avoid electric shock or component damage disconnect power before attempting installation or servicing.
- Installation must be structurally sound as to prevent damage or personal injury due to fixture collapse. Fixture should provide adequate room to install kit.
- Use caution when handling this product during or after operation as it may become hot and cause burns. Disconnect product and allow to cool prior to servicing.
- Any alteration or modification of this product is expressly forbidden as it may cause serious personal injury, death, property damage and/or product malfunction.
- To prevent product malfunction and / or electrical shock this product must be properly grounded.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

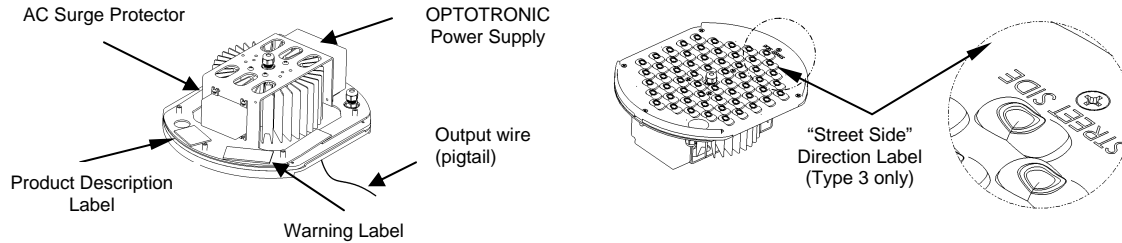
NOTICE

- Even though this product may continue to light after the lens is cracked or broken, or after the specified lifetime has passed, it must be replaced in order to maintain appropriate light levels.
- It is the user's responsibility to install this product in a suitable luminaire that is in good condition. Damage by corrosion, dust, humidity or other external factors will not be honored under warranty.
- To prevent early product failure, this product should be installed in operating environments with mean operating temperature for LED Retrofit Module: 77°F (25°C); maximum ambient operating temperature can not exceed 104°F (40°C).
- Installation requirements may vary depending on the luminaire retrofitted.
- Incorrect electrical polarity may damage the module.

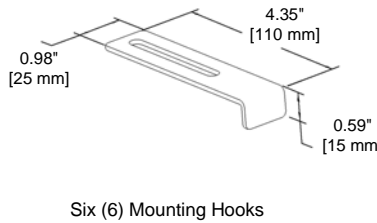
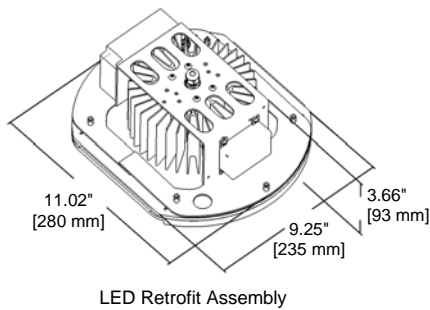
1. MECHANICAL INSTRUCTIONS

1.1. Products Covered

Item Number	Ordering Abbreviation	Input Voltage (VAC)	Nominal Wattage (W)	Light Distribution
78532	LED40POST/757/T3M/D11/1G	120-277V	40	Type 3, Medium



1.2. Post Top LED Retrofit Kit Product Description



- LED Retrofit Assembly includes:
 - LED Board with Optics
 - Heat Sink
 - OPTOTRONIC Power Supply
 - AC Surge Protector
- Six Mounting Hooks
- Six Wing nuts and washers

* Post Top Street Light LED Retrofit Kit has been properly packed to protect during transit. Unpack, inspect, and notify the distributor or shipping agent of any damage found.

1.3. Required Tools and Hardware

- Flat and Phillips screwdriver
- Pliers
- Wire strippers
- Wire connectors
- Wire nuts

In addition, these may be required

- Taps
- Fasteners (screws, washers, nuts, etc.)

1.4. Installation Steps

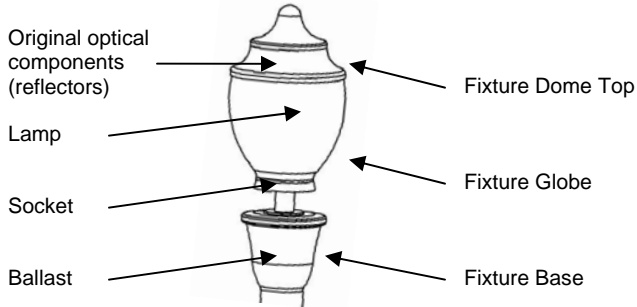
* Refer to fixture installation manual for fixture mounting procedures

1.4.1. Turn power off before attempting installation



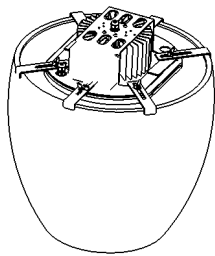
1.4.2. Remove lamp, original optical components, socket, and ballast.

- If photocell-controlled, do not remove photocell circuit components
- Prevent power line falling through pole

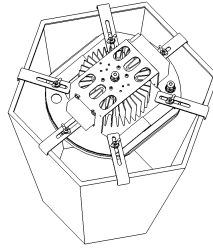


1.4.3. Install Mounting Hooks

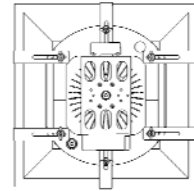
- Select the orientation of the mounting hooks depending on the fixture type



Circular globe

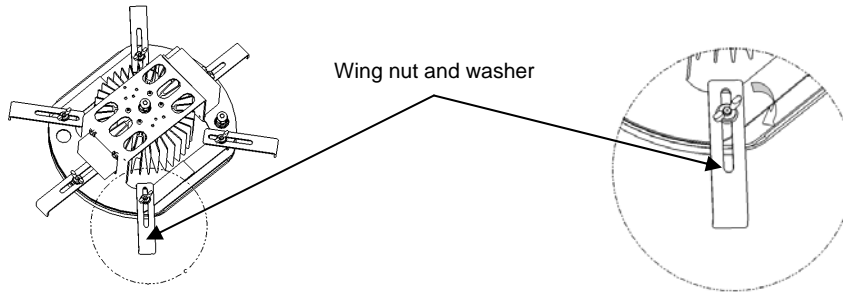


Six sided globe



Four sided globe

- Secure mounting hooks to LED retrofit assembly



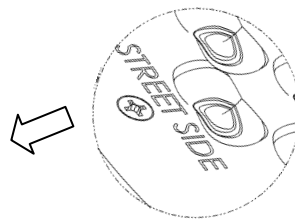
1.4.4. Make electrical connection

- Refer to wiring diagram (Electrical Instructions)
- If photocell-controlled, connect unit after external control
- Output wire (pigtail) may be molded to follow fixture globe shape. If fixture has a cage, the pigtail can be hidden along the vertical cage bar from inside the globe

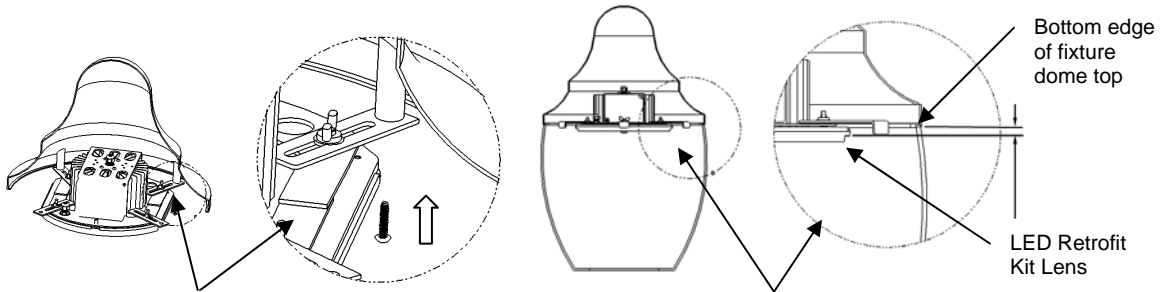
1.4.5. Check LED Retrofit Kit is properly attached inside the fixture.

- Secure LED Retrofit kit in globe as seen in 1.4.3
- For Type-III, verify street side orientation

Street Side Direction
Label should point
towards the street



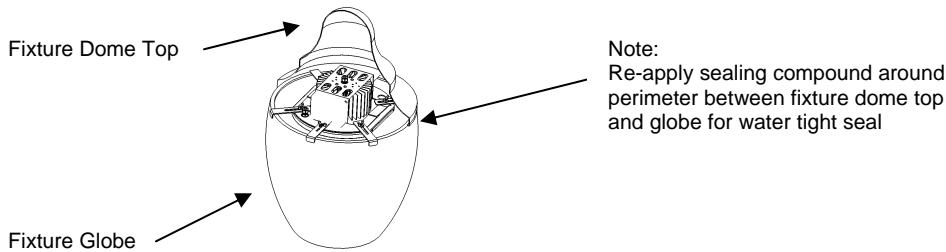
1.4.6. Also consider mounting LED Retrofit Kit to fixture dome top



Note:
Secure LED Retrofit Kit to existing holes used to secure reflectors in fixture dome top (Screws not provided)

Note:
For proper optical pattern, LED Retrofit Kit Lens must be mounted below bottom edge of fixture dome top

1.4.7. Secure fixture dome top to globe and restore original sealing

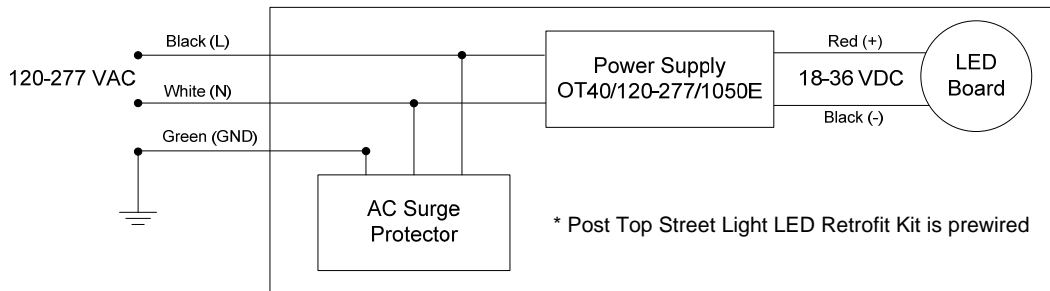


1.5. Maintenance and Cleaning

- Periodic cleaning of globe will ensure operation at maximum optical efficiency
- Refer to fixture installation instructions for maintenance and cleaning guidelines
- Even though LED Retrofit Kit may continue to light after the specified lifetime has passed, it must be replaced in order to maintain appropriate light levels

2. ELECTRICAL INSTRUCTIONS

2.1. Wiring Diagram



3. RELATED INFORMATION

3.1. List of Applicable and Related Documents:

- Document #RETRO008 – Post Top Street Light LED Retrofit Kit Product Information Brochure (PIB)



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