

# D11 Area Light LED Retrofit Kit

## INSTALLATION GUIDE



The D11 Area Light LED Retrofit Kit from SYLVANIA is an alternative to high-intensity discharge (HID) lamps up to 175W at pole heights up to 20 feet. By taking advantage of the directional light distribution of high power white LEDs, this revolutionary system delivers light only where needed, minimizing light trespass. It is an ideal solution for communities that wish to convert their existing lighting systems to an environmentally friendly 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 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.
- 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.
- To prevent risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings

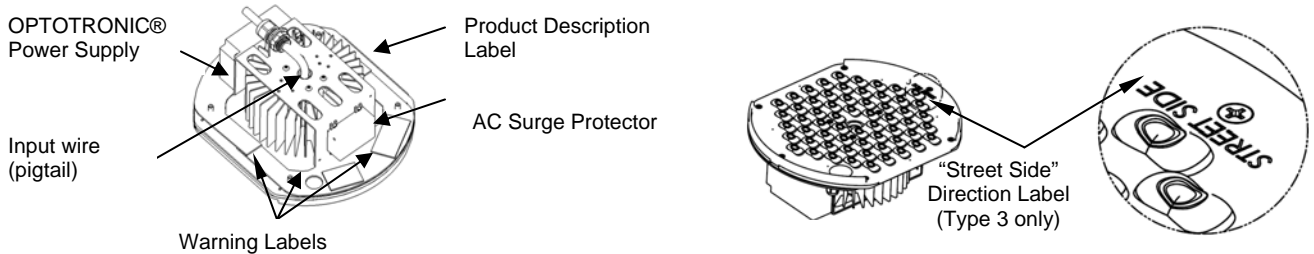
### **NOTICE**

- 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.
- Failure of fixture to provide weather protection voids warranty
- To prevent early product failure, this product should be installed in operating environments with maximum mean operating temperature for LED Retrofit Module: 104°F (40°C); maximum ambient operating temperature can not exceed 140°F (60°C).
- Installation requirements may vary depending on the luminaire retrofitted.
- Incorrect electrical polarity may damage the module.

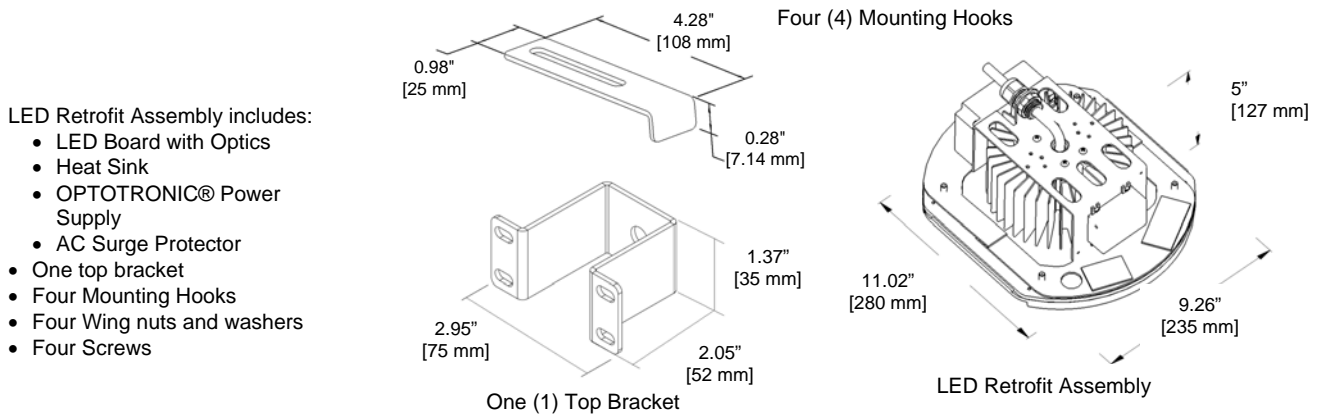
# 1. PRODUCT OVERVIEW

## 1.1. Products Covered

Item Number	Ordering Abbreviation	Nominal Wattage (W)	Input Voltage (VAC)	Light Distribution
78532	LED40POST/757/T3M/D11/1G	40	120-277	Type-III Medium
78599	LED40POST/850/T3M/D11/1G	40	120-277	Type-III Medium
78606	LED40POST/757/T5S/D11/1G	40	120-277	Type-V Short
78607	LED40POST/850/ T5S/D11/1G	40	120-277	Type-V Short



## 1.2. D11 Area Light LED Retrofit Kit Product Description



- LED Retrofit Assembly includes:
- LED Board with Optics
  - Heat Sink
  - OPTOTRONIC® Power Supply
  - AC Surge Protector
  - One top bracket
  - Four Mounting Hooks
  - Four Wing nuts and washers
  - Four Screws

\* 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 Head Screwdriver
- Pliers
- Wire Strippers
- Wire Connectors
- Wire Nuts

In addition, these may be required

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

## 1.4. 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

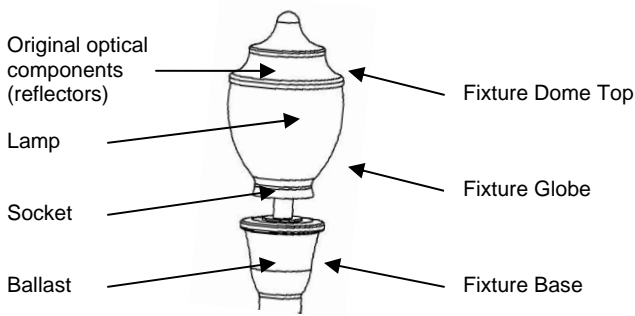
# 2. INSTALLATION INSTRUCTIONS

\* Refer to fixture installation manual for fixture mounting procedures

## 2.1. STEP 1: Prepare fixture for installation

- Turn power off before attempting installation
- Remove lamp, original optical components, socket, and ballast





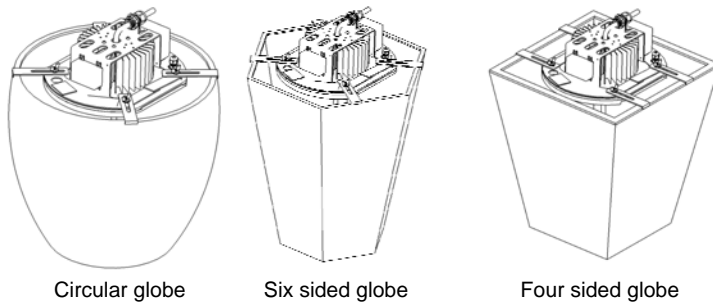
- Note:
- If photocell-controlled, do not remove photocell circuit components
  - Prevent power line falling through pole



## 2.2. STEP 3: Install mounting accessories and install D11 Kit in fixture

- Select the appropriate assembly method

### Option 1: Globe Mounting (Use Mounting Hooks)

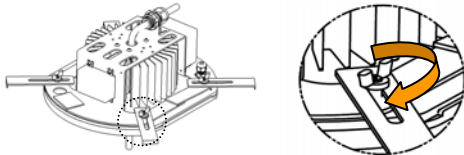


Note:  
Recommended fixture dimensions for Globe Mounting:

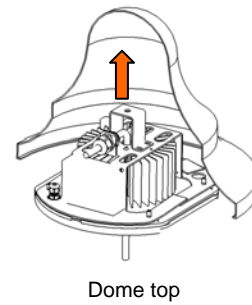
	Width	Depth	Height
<b>Min (non-circular globe)</b>	11.2"	9.3"	5.1"
<b>Min (circular globe)</b>	14.3"	14.3"	5.1"
<b>Max (all globes)</b>	17.0"	17.0"	50.0"

- Secure mounting accessories to LED Retrofit Assembly

### Option 1: Globe Mounting (Use Wing Nut and Washers)



### Option 2: Dome Top Mounting (Use Top Bracket)

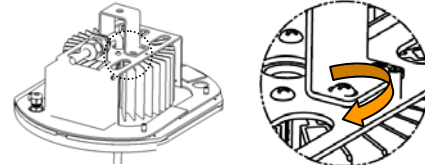


Note  
Additional screws and washer are required to mount kit to dome top

Note:  
Recommended fixture dimensions for Dome Top Mounting:

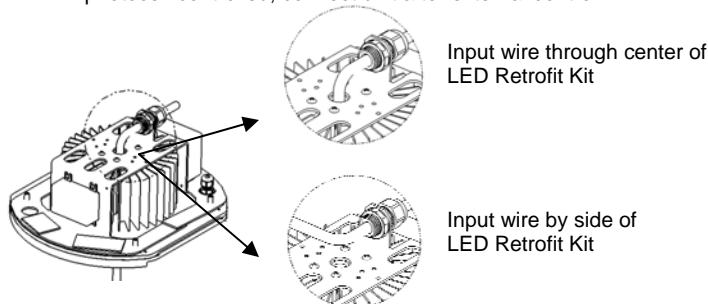
	Width	Depth	Height
<b>Min</b>	11.1"	9.3"	5.8"
<b>Max</b>	30.0"	30.0"	50.0"

### Option 2: Dome Top Mounting (Use Screws)

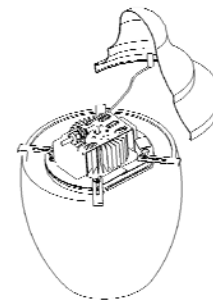


## 2.3. STEP 4: Make electrical connections

- Refer to wiring diagram in Section 3 for electrical instructions
- If photocell-controlled, connect unit after external control



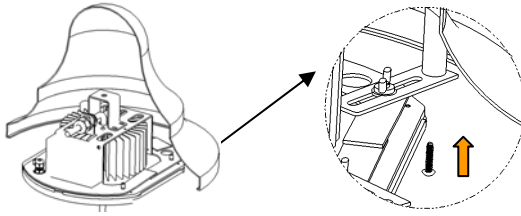
Note:  
Input wire (pigtail) may be molded to follow fixture globe shape. If fixture has a cage, the pigtail can be hidden along the vertical cage bar from inside the globe



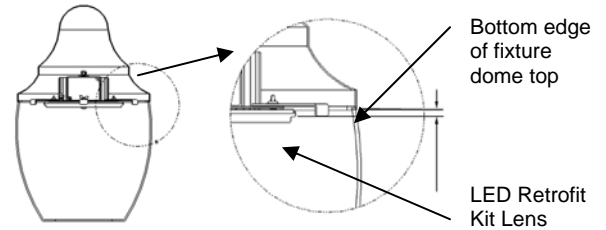
Note:  
If fixture dome top is metallic and is not grounded, bond (Ground) the fixture dome top using ground terminal on the LED Retrofit Kit

**2.4. STEP 5: Verify LED Retrofit Kit is properly attached inside the fixture.**

- Secure LED Retrofit kit to the fixture as seen in 1.4.3
- Also consider mounting LED Retrofit Kit using mounting hooks and existing holes in fixture dome top (if available)



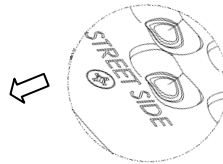
Note:  
Secure LED Retrofit Kit to existing holes used to secure reflectors in fixture dome top (Screws not provided)



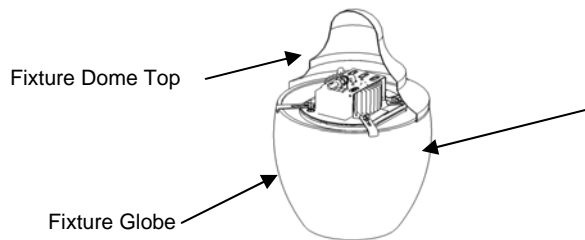
Note:  
For proper optical pattern, LED Retrofit Kit Lens must be mounted below bottom edge of fixture dome top

- For Type-III, verify street side orientation

Street Side Direction Label should point towards the street



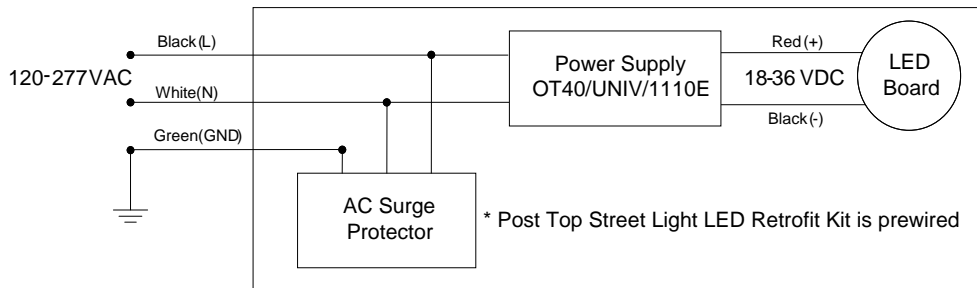
**2.5. STEP 6: Secure fixture dome top to globe and restore original sealing**



Note:  
Re-apply sealing compound around perimeter between fixture dome top and globe for water tight seal

**3. ELECTRICAL INSTRUCTIONS**

**3.1. Wiring Diagram**



**4. RELATED INFORMATION**

**4.1. List of Applicable and Related Documents:**

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

To order replacement retrofit kits please contact

**OSRAM SYLVANIA**  
National Customer Service and Sales Center  
18725 N. Union Street  
Westfield, IN 46074 USA

**Industrial Commercial**  
Phone: 1-800-255-5042  
Fax: 1-800-255-5043

**National Accounts**  
Phone: 1-800-562-4671  
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Display/Optic  
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