

**TOWN OF FAIRFAX
STAFF REPORT**

To: Mayor, Members of the Town Council
From: Michael Rock, Town Manager 
Date: December 7, 2011
Subject: Discussion/Consideration of street light replacement plans and specifications

RECOMMENDATION

Direct staff to pursue both options below:

1. Include in the plans and specifications an option for replacement of the street light post. Select one of two design options as shown in Attachment A.
2. Include in the plans and specifications an option bid price to replace only the street light lamp.

DISCUSSION

The Town of Fairfax was awarded an energy efficiency grant from the California Energy Commission last year in the amount of \$38,000 to replace conventional street lights with more energy efficient lighting such as LED. While LED energy efficient lighting has been available for many years for traffic signals they have only recently become available for street lights.

The Town has very old downtown street lights and finding a replacement lamp has become challenging. In addition, replacing the lamp only could be far more expensive than replacing the whole lamp assembly. By allowing for the alternate bid options 1&2 above the Town can select the most efficient and cost effective street lighting.

Staff will be asking the Council to release the plans and specifications for this project at the January 11, 2012 Town Council meeting.

FISCAL IMPACT

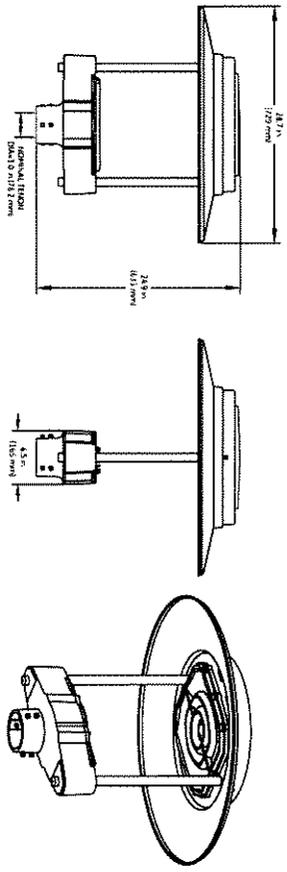
The Town has been awarded a \$38,000 grant and all costs associated with this project (including design, engineering and materials) will be paid from the grant.

ATTACHMENTS

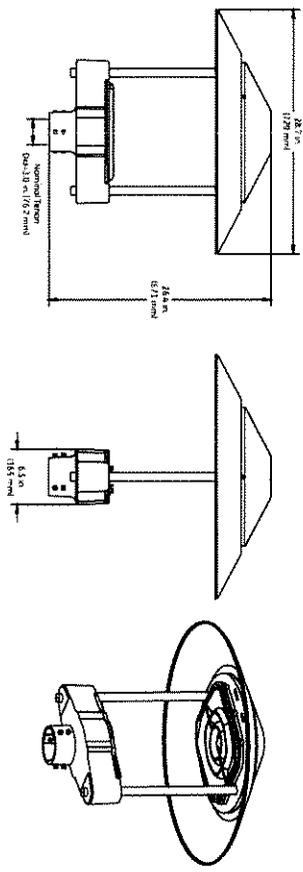
LED Post Top samples

Product Dimensions

Tapered Circular Top Housing



Tapered Square Top Housing



DATA	
• Approximate Net Weight	<32 lbs (14.51 kgs)
• Suggested Mounting Height	8-16 ft (2.5-5 m)
• Effective Projected Area (EPA)	1.12 sq. ft. (0.10 sq. m)

GE Lighting Solutions • 1-888-MY-GE-LED • www.gelighting.com

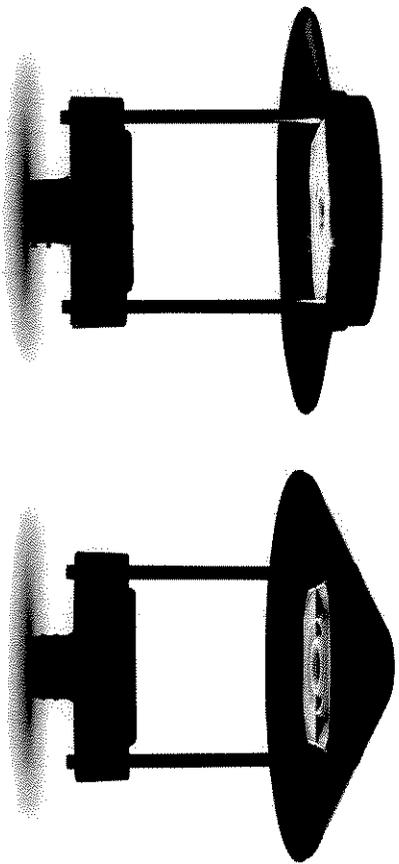


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01-9-2011 Rev. 1029119

GE
Lighting Solutions

Evolve™ LED Post Top Contemporary Twin Support Post Top (EPTC)



imagination at work



Product Features

The new Evolve™ LED Contemporary Twin Support Post Top (EPTC) offers energy efficiency and quality of light in your choice of two distinct, modern styles. The advanced LED optical system provides improved horizontal and vertical uniformity, reduced glare and improved lighting control. GE's unique optical ring technology effectively aims the light where you need it, while eliminating the unsightly shadow circles commonly seen under other LED post top fixtures.

The EPTC can yield up to a 60-percent reduction in system energy compared with standard HID systems, depending on applications. This reliable system operates well in cold temperatures and offers more than 11 years of service life to reduce maintenance frequency and expense, based on a 50,000-hour life at 12 hours of operation per day (L85 Rating).

Applications

- Roadway, site, area and general lighting utilizing advanced LED optical system providing high uniformity, excellent vertical illuminance, reduced off-site visibility, and reduced on-site glare.

Housing

- Base die-cast aluminum housing.
- Top Upper Housing: one-piece spun aluminum, available in two distinct contemporary designs.
- The upper fixture design incorporates the heat sink directly into the unit ensuring maximum heat transfer and long LED life.
- Meets 2G vibration per ANSI C136.32-2001. For 3G rating contact manufacturer.

LED & Optical Assembly

- Structured LED array for optimized roadway, walkway and campus photometric distribution.
- Evolve light engine consisting of nested concentric directional reflectors designed to optimize optical efficiency and minimize glare.
- Utilizes high brightness LEDs, 65 CRI at 4100K typical.
- LM-79 tests and reports are performed in accordance with IESNA standards.

Lumen Maintenance

- System rating is L85 at 50,000 hours. Contact manufacturer for L rating (lumen Depreciation) beyond 50,000 hours.

Ratings

- listed, suitable for wet locations.
- IP 65 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 50°C.
- RoHS compliant.

Mounting

- Post top mounting 3/8-inch (6mm) OD held in place with six square head set screws.

Finish

- Corrosion resistant polyester powder coated, minimum 2.0 mil. thickness.
- Standard colors: Black, Gray and Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.
- Class 'A' audible sound rating.
- Integral surge protection.
- For 120-277VAC per IEE/ANSI C62.41-.1991, 4AW/2WA Location Category B2 I120 Eventsl.
- For 347-480VAC per IEE/ANSI C62.41-.1991, 4AW/2WA Location Category B2 I120 Eventsl.
- EMI: Title 47 CFR Part 15 Class A.
- Photo Electric Sensors (PE) available for all voltages.

Warranty

- 5-year limited system warranty standard.

Ordering Number Logic



PHOTO	OPTICAL CODE	COILS TEMP	LENS	GRILL/SHIELD	FINISH	TOP HOUSING	COLOR	OPTIC
1 = Cove	0 = 120° 1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°	1 = 120° 2 = 120° 3 = 120° 4 = 120° 5 = 120°



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Photometrics

