

GE  
Lighting

# Evolve™ LED Post Top

Contemporary Twin Support Post Top (EPTC)



imagination at work

## Product Features

The 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 offsite 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 C136.31-2001. 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 application 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.

### Mounting

- Post top mounting 3-inch (76mm) OD held in place with six square head set screws.

### Finish

- Corrosion resistant polyester powder painted, 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 IEEE/ANSI C62.41.-1991, 4kV/2kA Location Category B2 (120 Events).
  - For 347-480VAC per IEEE/ANSI C62.41.-1991, 4kV/2kA Location Category B2 (120 Events).
- EMI: Title 47 CFR Part 15 Class A.
- Photo Electric Sensors (PE) available for all voltages.

# Ordering Number Logic

## Contemporary Twin Support Post Top (EPTC)



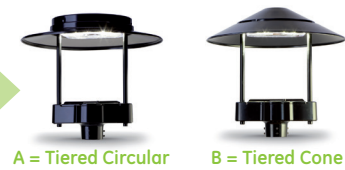
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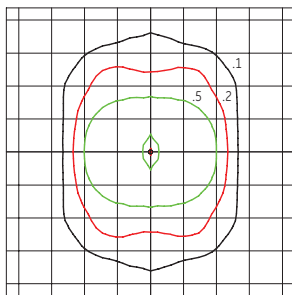
PROD. ID	VOLTAGE	OPTICAL CODE	COLOR TEMP	LENS	ORIENTATION	PE FUNCTION	TOP HOUSING	COLOR	OPTIONS
E = Evolve	0 = 120 - 277 H = 347 - 480	41 = 4100K	4100K	P = Polycarbonate	L = Parallel	1 = None 2 = PE Rec. 3 = Button PE* 4 = PE Rec. with Shortening Cap 5 = PE Rec. with Control PE control not available for 347-480V. Must be a discrete voltage. *Button PE not available with 347 or 480 volt fixtures.	A = Tiered Circular B = Tiered Cone	BLCK = Black DKBZ = Dark Bronze GRAY = Gray Contact manufacturer for other colors.	D = Dimmable (0-10 Volt Input)* F = Fusing P = Prewire with 6" of 14/3 cable XXX = Special Options *Not available at time of launch. Contact manufacturer for details and availability (only available in 120-277V).
P = Post Top	1 = 120*								
T = Twin Support	2 = 208*								
C = Contemporary	3 = 240*								
	4 = 277*								
	5 = 480*								
	D = 347*								
	*Specify single voltage only if fuse or button PE option is selected								



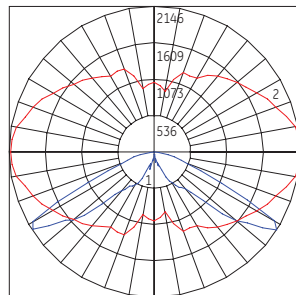
OPTICAL CODE	TYPE	TYPICAL INITIAL LUMENS	TYPICAL SYSTEM WATTAGE		POLE SPACING (2-4 LANES)	BUG RATINGS 4100K			IES FILE NUMBERS		
			4100K	120-277V		347-480V	B	U	G	120-277V	347-480V
TYPE V	C5	Symmetric	6,300	84	84	5:1	B3	U1	G1	EPTC_C541PL_-120-277V	EPTC_C541PL_-347-480V
	E5	Symmetric	3,200	48	48	5:1	B2	U1	G1	EPTC_E541PL_-120-277V	EPTC_E541PL_-347-480V
TYPE III	C3	Asymmetric Wide	6,300	84	84	5:1	B1	U2	G2	EPTC_C341PL_-120-277V	EPTC_C341PL_-347-480V
	E3	Asymmetric Wide	3,200	48	48	5:1	B0	U2	G1	EPTC_E341PL_-120-277V	EPTC_E341PL_-347-480V

## Photometrics

EPTC Type V – Symmetric (C5)  
6,300 Lumens, 4100K

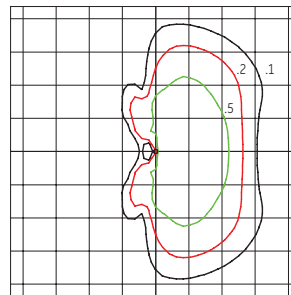


Grid Distance in Units of Mounting Height at 16' Initial Footcandle Values at Grade

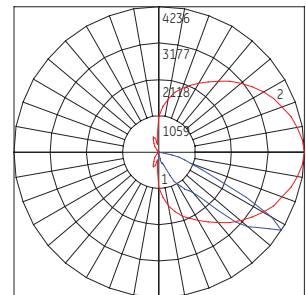


Polar Trace Vertical and Horizontal Plane through Horizontal Angle of Maximum Candlepower

EPTC Type III – Symmetric (C3)  
6,300 Lumens, 4100K



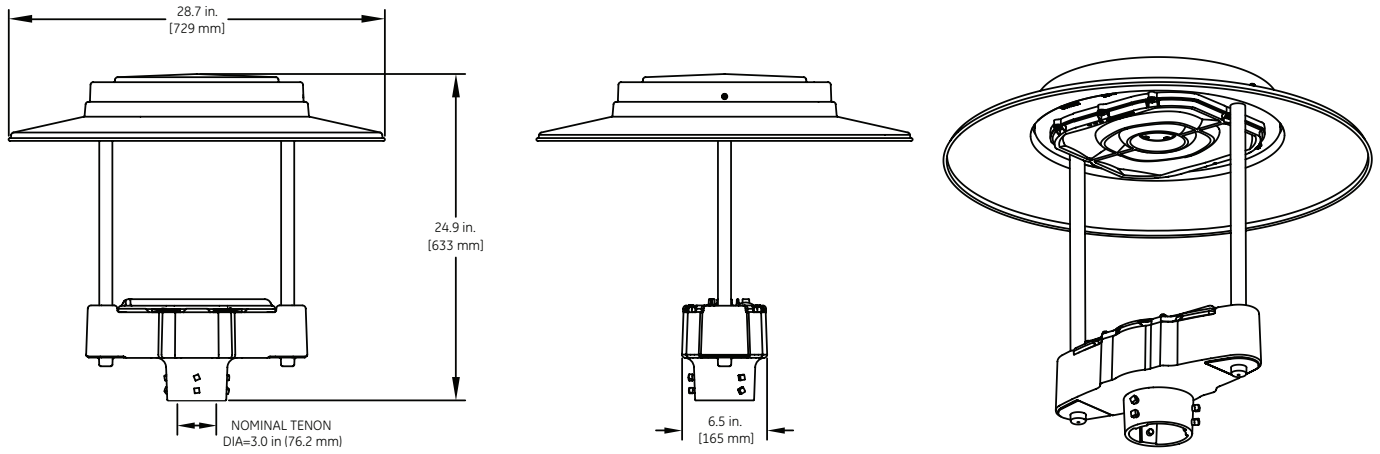
Grid Distance in Units of Mounting Height at 16' Initial Footcandle Values at Grade



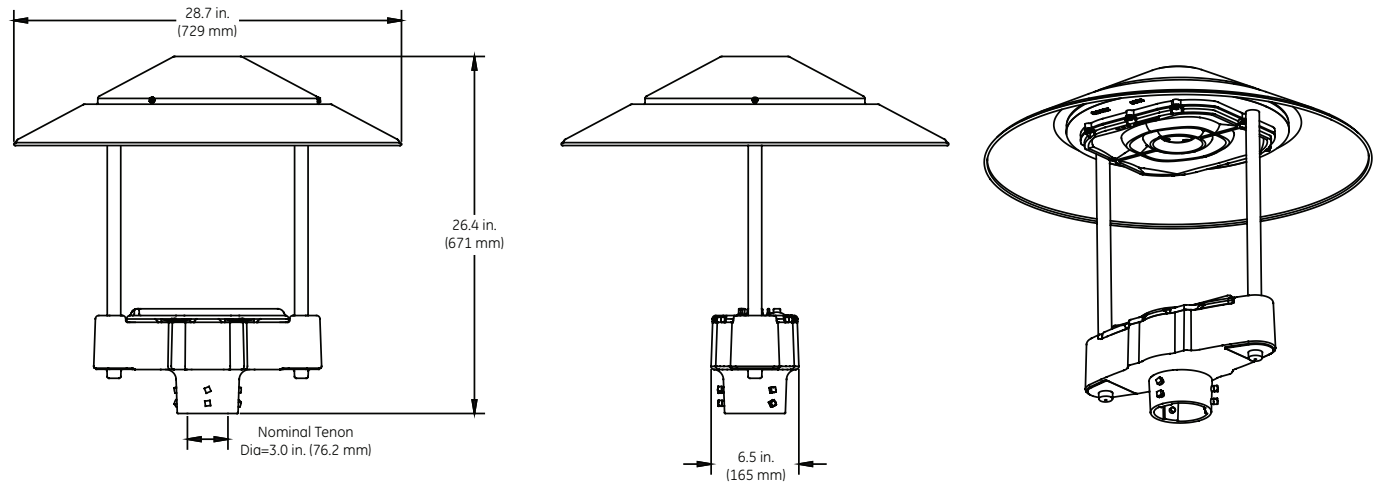
Polar Trace Vertical and Horizontal Plane through Horizontal Angle of Maximum Candlepower

# Product Dimensions

## Tiered Circular Top Housing



## Tiered Cone 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. max (0.10 sq. m)



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