Evolve®

LED Post Top

Contemporary Twin Support Post Top (EPTC)

current
powered by GE

Evolve®
LED Post Top Lighting
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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. The EPTC post top 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 20 years of service life, reducing maintenance frequency and expense, based on a rated 100,000 hour life and 12 hours of operation per day.

Features:

- Optimized photometric distributions.
- **Evolve®** light engine consisting of nested concentric directional reflectors designed to optimize application efficiency and minimize glare.
- 70 CRI at 3000K and 4000K typical
- -40°C to 50°C UL Ambient
- Designed and Assembled in USA

Applications:

- Local Roadways
- Parks and Pathways
- University and Business Campuses

To learn more about the **Evolve EPTC Contemporary Twin Support Post Top**, go to: **www.currentbyge.com**

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Project name _____
Date _____
Type _____

Typical Specifications: EPTC

LED & Optical Assembly

- **Output Range:** 2,900 – 9,500 lm
- **Photometric Options:**
  - Symmetric Type V
  - Asymmetric Type III
- **System Efficacy:** 103 - 118 LPW
- **CCT:** 3000K, 4000K; High brightness LEDs @ 70 CRI

Lumen Maintenance Table

- Projected Lxx per IES TM-21 at 25 °C for reference:

LUMEN OUTPUT CODES	Lxx (10k) @ Hours		
	25,000 hr	50,000 hr	100,000 hr
03-09	L97	L96	L95

Note: Projected Lxx based on LM80 (10,000 hour testing).

Lumen Ambient Temperature Factors:

Ambient Temp (°C)	Initial Flux Factor
10	1.02
20	1.01
25	1.00
30	0.99
40	0.98

Electrical

- **Input Voltage:** 120-277V or 347-480V
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)*:** ≥0.90
- **Total Harmonic Distortion (THD)*:** ≤20%

* *System PF and THD specified at rated watts*

Ratings

- **Safety:** UL/cUL listed per UL1598, suitable for wet locations.
- **Intrusion Protection (IP):** IP65 rated optical enclosure per ANSI C136.25-2009.
- **Sound:** Class "A" rating.
- **Surge Protection:** per ANSI C136.2-2015
  (Driver Internal):
  – 6kV/3kA "Basic: (40 Strikes)" – Standard
  (Additional Secondary SPD):
  – 10kV/5kA "Enhanced (40 Strikes)" – Option R
- **Environmental:** Complies with the material restrictions of RoHS
- **EMI:** FCC Title 47CFR Part 15 Class A
- **Vibration:** 2.0G per ANSI C136.31-2010
- LM-79 testing in accordance with IESNA standards.
- **Operating Temperature:** -40 °C to + 50 °C

Construction & Finish

- **Housing:**
  – Diecast aluminum housing w/ spun aluminum top.
  – Internal heat sink ensuring maximum heat transfer for long LED life.
- **Lensing:** UV resistant acrylic
- **Paint:** Corrosion resistant polyester powder paint, minimum 2.0 mils thickness.
  – Standard colors: Black, Dark Bronze
  – RAL & custom colors available
- **Weight:** 29.8 lbs. (13.5 kgs.) – 30.8 lbs. (14.0 kgs)

Warranty

- **System Warranty:** 5 Year Standard, 10 Year Optional

Controls

(Connected via 7-Pin C136.41 socket)

- **Dimming:**
  – Standard 0-10V
  – Optional DALI
- **Sensors:**
  – Photo-electric sensors (PE) available for all voltages
  – LightGrid™ 2.0 compatible

Mounting

- Post top mounting for nominal 3-inch (76mm) OD by 3.25-inch (83mm) tall vertical tenon secured with six square head set screws.

Ordering Number Logic

Contemporary Twin Support Post Top (EPTC)

EPTC 02 _ __ _ __ _ _ ____ ___

PRODUCT FAMILY	GENERATION	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION	CCT	CONTROLS ANSI C136.41 7 PIN PE RECEPTACLE	TOP TYPE	COLOR	OPTIONS
E = Evolve **P** = Post Top **T** = Twin Support **C** = Contemporary	**02** = Gen 2	**0** = 120-277V **5** = 480** **D** = 347** **H** = 347-480V** **Not available for 03 thru 06 lumen codes	**03** **04** **05** **06** **07** **08** **09**	**A** = Symmetric Type V **B** = Asymmetric Type III	**30** = 3000K **40** = 4000K	**1** = None **A** = PE Receptacle **D** = PE Receptacle with Shorting Cap **E** = PE Receptacle with non-dimming PE in box* *PE control not available for 347-480V. Must specify discrete voltage (347V or 480V).	**A** = Tiered Circular **B** = Tiered Cone	**BLCK** = Black **DKBZ** = Dark Bronze	**R** = Secondary 10kV/5kA SPD **U** = DALI* **XXX** = Special Options *Not available for 347-480V

A = Tiered Circular

B = Tiered Cone

DISTRIBUTION CODE	OPTICAL CODE	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		BUG RATINGS		IES FILE NUMBERS			
								4000K		3000K	
		4000K	3000K	120-277V	347-480V	4000K	3000K	120-277V	347-480V	120-277V	347-480V
A Symmetric Type V	**03**	3100	2900	27	N/A	B2-U0-G1	B2-U0-G1	EPTC02_03A40_-120-277V.IES		EPTC02_03A30_-120-277V.IES	
	04	4100	3800	35	N/A	B2-U0-G1	B2-U0-G1	EPTC02_04A40_-120-277V.IES		EPTC02_04A30_-120-277V.IES	
	05	5100	4800	43	N/A	B3-U0-G1	B3-U0-G1	EPTC02_05A40_-120-277V.IES		EPTC02_05A30_-120-277V.IES	
	06	6400	6000	54	N/A	B3-U0-G1	B3-U0-G1	EPTC02_06A40_-120-277V.IES		EPTC02_06A30_-120-277V.IES	
	07	7300	6900	65		B3-U0-G1	B3-U0-G1	EPTC02_07A40_.IES		EPTC02_07A30_.IES	
	08	8400	7900	74		B3-U0-G2	B3-U0-G2	EPTC02_08A40_.IES		EPTC02_08A30_.IES	
	09	9500	8800	85		B3-U0-G2	B3-U0-G2	EPTC02_09A40_.IES		EPTC02_09A30_.IES	
B Asymmetric Type III	**03**	3100	2900	27	N/A	B1-U0-G1	B0-U0-G1	EPTC02_03B40_-120-277V.IES		EPTC02_03B30_-120-277V.IES	
	04	4100	3800	35	N/A	B1-U0-G2	B1-U0-G1	EPTC02_04B40_-120-277V.IES		EPTC02_04B30_-120-277V.IES	
	05	5100	4800	43	N/A	B1-U0-G2	B1-U0-G2	EPTC02_05B40_-120-277V.IES		EPTC02_05B30_-120-277V.IES	
	06	6400	6000	54	N/A	B1-U0-G2	B1-U0-G2	EPTC02_06B40_-120-277V.IES		EPTC02_06B30_-120-277V.IES	
	07	7300	6900	65		B1-U0-G2	B1-U0-G2	EPTC02_07B40_.IES		EPTC02_07B30_.IES	
	08	8400	7900	74		B1-U0-G2	B1-U0-G2	EPTC02_08B40_.IES		EPTC02_08B30_.IES	
	09	9500	8800	85		B1-U0-G2	B1-U0-G2	EPTC02_09B40_.IES		EPTC02_09B30_.IES	

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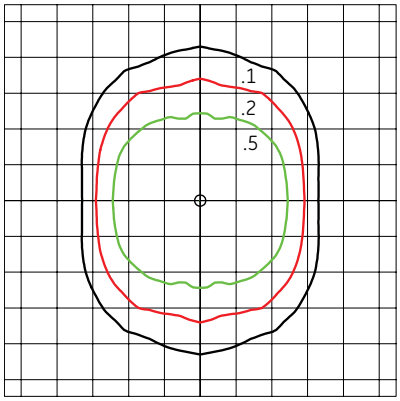
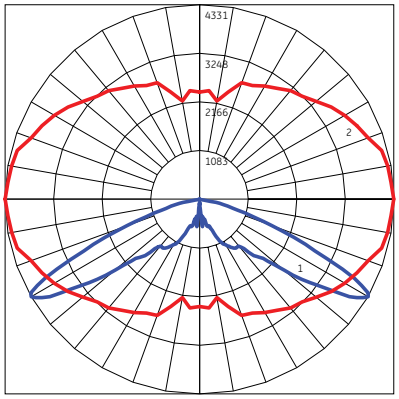
Project name _____
Date _____
Type _____

Photometrics

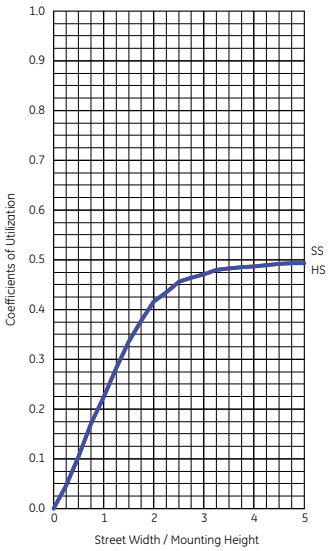
EPTC02*A40 – Symmetric (Type V)**
9,500 Lumens, 4000K



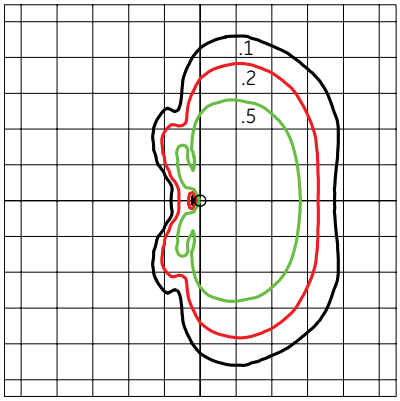
Grid Distance in Units of Mounting Height at 16'
Initial Footcandle Values at Grade



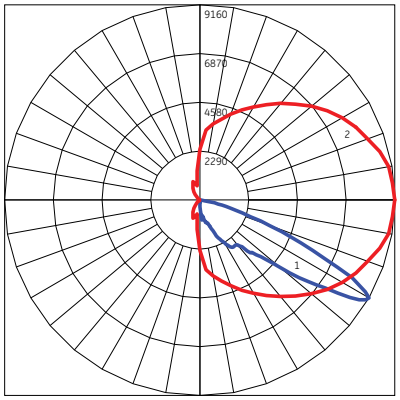
Vertical plane through horizontal angle of Max. Cd at 0°
Horizontal cone through vertical angle of Max. Cd at 60°



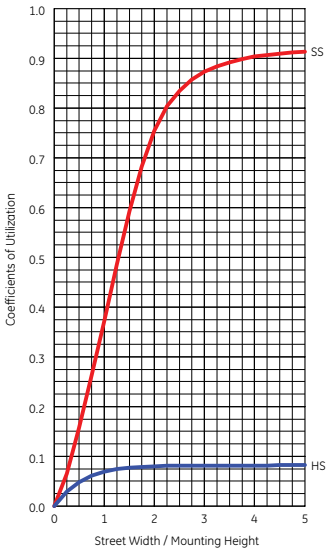
EPST02*B40 – Asymmetric (Type III)**
9,500 Lumens, 4000K



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

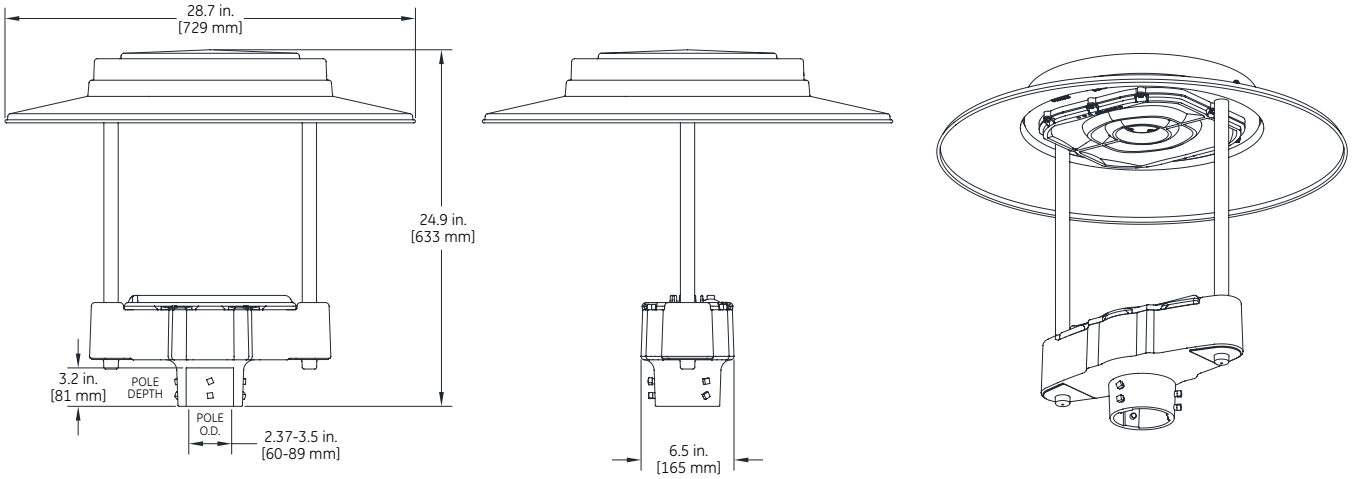


Vertical plane through horizontal angle of Max. Cd at 0°
Horizontal cone through vertical angle of Max. Cd at 60°

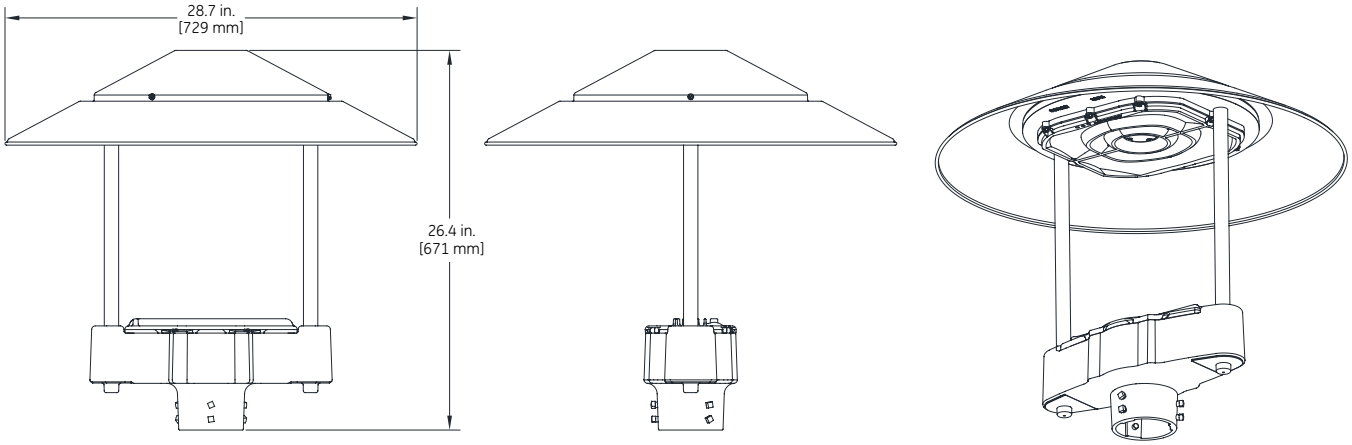


Product Dimensions

Tiered Circular Top Housing



Tiered Cone Top Housing



DATA

- Approximate Net Weight: 29.8 lbs. (13.5 kgs.) – 30.8 lbs. (14.0 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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