



Lumec **TownGuide** family is a functional outdoor LED lighting range for the lower post-top applications. **TownGuide** is most suitable for parks and recreation, city centers, pedestrian areas and bike paths, campuses, public areas and green projects.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

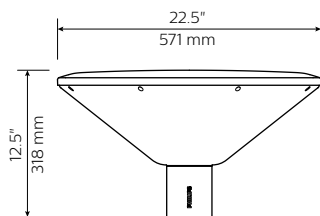
### Ordering guide

Example: PBDP102-101W128LED4K-MP-PC-C-LE5-UNV-CDMGM25-RCD-PH8-P120-12-GR

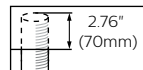
Series	Lamp	Lamp type	Globe material	Globe finish	Optical system	Voltage	Driver options	House Side Shield	Luminaire options	Luminaire accessory	Pole type & height	Finish
<b>PBDP102</b>		<b>MP</b>	<b>PC</b>			<b>UNV</b>		<input type="checkbox"/>				
<b>PBDP102</b> Classic cone	<b>3000K</b> 50W64LED3K 61W64LED3K 75W96LED3K 95W128LED3K 101W128LED3K  <b>4000K</b> 50W64LED4K 61W64LED4K 75W96LED4K 95W128LED4K 101W128LED4K	MP	PC	C	LE2 LE3 LE5	UNV	CLO DALI CDMGS25 CDMGS50 CDMGS75 CDMGM25 CDMGM50 CDMGM75 CDMGE25 CDMGE50 CDMGE75 DMG	HS	RCD <sup>1</sup> RCD7 <sup>1</sup>	PH8 PH9	P120-8 P120-10 P120-12 P120-14 P150-8 P150-10	BKST BRST GR MGY WHST

1. Use of Luminaire accessory **PH8** or **PH9** is required to ensure proper illumination.

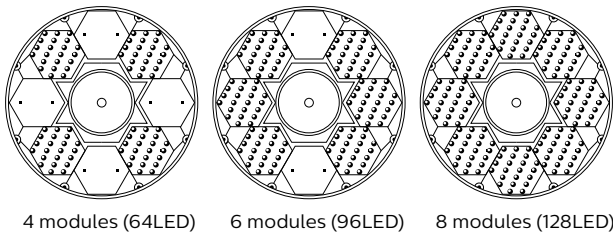
### Luminaire



EPA: .9472 sq. ft.  
Weight: 14.72 lbs



### Arrangement of the LED modules in the luminaire, viewed from the road axis.

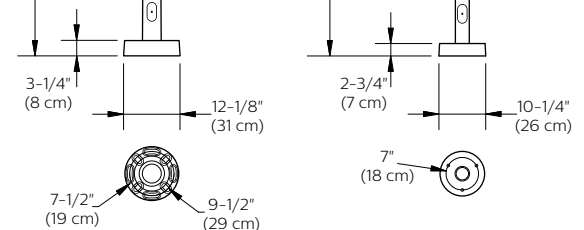


### Poles

#### P120



#### P150



# PBDP102 TownGuide Classic Cone Post Top Urban Luminaire

## Clear Globe (4000K)

LED = Mid-Power, CRI = 80, CCT = 3000K (+/- 350K), System (LED + driver) rated life = 70,000 hrs

LED Module	Total LEDs	LED Current (mA)	Average System Wattas (W)	LE2			LE3			LE5		
				Delivered Lumens (LM)	Efficacy (LPW)	BUG rating	Delivered Lumens (LM)	Efficacy (LPW)	BUG rating	Delivered Lumens (LM)	Efficacy (LPW)	BUG rating
50W64LED3K-MP-PC-C	64	239	50	4753	95	B1-U3-G1	4806	96	B1-U2-G1	4954	99	B2-U2-G1
61W64LED3K-MP-PC-C	64	284	61	5234	85	B1-U3-G2	5318	87	B1-U2-G1	5408	88	B3-U2-G1
75W96LED3K-MP-PC-C	96	234	76	7058	93	B2-U3-G2	7132	94	B2-U2-G2	7469	99	B3-U2-G1
95W128LED3K-MP-PC-C	128	229	95	8787	92	B2-U3-G2	8928	94	B2-U3-G2	9079	95	B3-U3-G2
101W128LED3K-MP-PC-C	128	243	101	9155	90	B2-U3-G2	9302	92	B2-U3-G2	9460	93	B3-U3-G2

## Clear Globe (3000K)

LED = Mid-Power, CRI = 80, CCT = 4000K (+/- 350K), System (LED + driver) rated life = 70,000 hrs

LED Module	Total LEDs	LED Current (mA)	Average System Wattas (W)	LE2			LE3			LE5		
				Delivered Lumens (LM)	Efficacy (LPW)	BUG rating	Delivered Lumens (LM)	Efficacy (LPW)	BUG rating	Delivered Lumens (LM)	Efficacy (LPW)	BUG rating
50W64LED4K-MP-PC-C	64	239	50	5236	104	B1-U3-G2	5294	105	B1-U2-G1	5458	108	B2-U2-G1
61W64LED4K-MP-PC-C	64	284	62	5766	94	B1-U3-G2	5859	95	B1-U2-G1	5958	97	B3-U2-G1
75W96LED4K-MP-PC-C	96	234	76	7776	103	B2-U3-G2	7858	104	B2-U2-G2	8228	109	B3-U3-G1
95W128LED4K-MP-PC-C	128	229	95	9681	102	B2-U3-G2	9836	103	B2-U3-G2	10003	105	B3-U3-G2
101W128LED4K-MP-PC-C	128	243	101	10086	99	B2-U3-G2	10248	101	B2-U3-G2	10422	103	B3-U3-G2

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

**Note:** Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

## Specifications

### Hood

In a round shape, made of die cast A413 aluminum, mechanically fastened to the globe.

### Globe (PC)

One-piece Seamless impact resistant injected-molded clear UV-Stabilized polycarbonate. The globe is mechanically assembled on the hood and fitter. C: clear finish.

### Fitter

Made of die cast A413 Aluminum alloy. Comes with an easy self adjusting system with two 2 set screws M8 x 20 Allen type for ease of maintenance and installation. Fits on a 3"(76mm) outside diameter by 2.76" (70mm) long tenon.

### LED Engine

Light engine composed of 3 main components: LED / Optical System / Driver Electrical components are RoHS compliant. Offered in configurations of 4, 6 or 8 modules. Product does not use any cooling device with moving parts (only passive cooling device). Each module is composed of 16 MP mid power white LEDs. Color temperature of 3000K and 4000K nominal, 80 CRI.

### Optical system

**LE2** (type II asymmetrical), **LE3** (type III asymmetrical) or **LE5** (type V symmetrical) light distributions. Composed of high-performance optical grade PMMA acrylic refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Street side indicated.

### Driver

Driver comes with dimming compatible 0-10 volts. High power factor of 95%. Electronic driver, operating range 50/60 Hz. **UNV:** Auto-adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral. Class I, THD of 20% max. Maximum ambient operating temperature from -40° F (-40° C) to 130° F (55° C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Mechanically fastened on the hood.

The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction.

### Wiring

Gauge (#18) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

# PBDP102 TownGuide Classic Cone Post Top Urban Luminaire

## Specifications (continued)

### Surge protector

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED Urban luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

### Hardware

All exposed screws shall be stainless steel. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

### Driver options

**CLO:** Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.

**DALI:** Pre-set driver compatible with the DALI control system.

**CDMG:** Dimmable driver standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

**DMG:** Dimmable driver 0-10Vt.

Ordering Code	Scenario	Dimming Time	Dimming Level
CDMGS25	Safety	4 hours	25% power
CDMGS50	Safety	4 hours	50% power
CDMGS75	Safety	4 hours	75% power
CDMGM25	Median	6 hours	25% power
CDMGM50	Median	6 hours	50% power
CDMGM75	Median	6 hours	75% power
CDMGE25	Economy	8 hours	25% power
CDMGE50	Economy	8 hours	50% power
CDMGE75	Economy	8 hours	75% power

### Luminaire option

**RCD:** Receptacle with 5 pins allowing dimming, can be used with a twist-lock, photoelectric cell or a shorting cap.

**RCD7:** Receptacle with 7 pins allowing dimming, can be used with a twist-lock, photoelectric cell or a shorting cap.

### Options

**HS:** House side shield optional

### Luminaire accessories

**PH8:** Photoelectric Cell, Twist-lock Type complete with receptacle. Allows a 90° rotation.

**PH9:** Shorting cap, Twist-lock Type complete with receptacle.

### Finish

The Thermosetting powder coating provided meets the color requirements of the AAMA 2604 specification as measured per ASTM D2244. The Thermosetting product is applied at a dry film of 2.5 to 4.0 mils (64-102 microns) on textured finishes, resulting in a durable long lasting finish.

#### Finish Options Include:

**BKST:** Black Sand Textured  
**BRST:** Bronze Sand Textured  
**GR:** Dark Gray Sand Textured  
**MGY:** Medium Gray Sand Textured  
**WHST:** White Sand Textured.

Consult factory for custom finish options.

### LED products (manufacturing standard)

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340 5 1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

### LED Performance

Predicted lumen depreciation data <sup>1</sup>				
Ambient Temperature (°C)	Driver mA	Calculated L <sub>70</sub> hours <sup>2,2</sup>	L <sub>70</sub> per TM-21 <sup>2,3</sup>	Lumen Maintenance % @ 60,000 hours
25°C	245 mA	>100,000	>60,000	89.8%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L<sub>70</sub> hours limited to 6 times actual LED test hours.

### Quality control

Manufactured to ISO 9001 2008 standards and ISO 14001 2004 International Quality Standards Certification.

### Vibration resistance

Meets the ANSI C136.31, American National Standard for Roadway Luminaire Vibration specifications for normal applications (Tested for 1.5G over 100 000 cycles).

### Certifications and Compliance

cETL listed to Canadian safety standards for wet locations. UL8750 and UL1598 compliant. ETL listed to U.S. safety standards for wet locations. cETL listed to Canadian safety standards for wet locations. LM80 & LM79 tested. Listed on the DesignLights™ Consortium (DLC) Qualified Products.

### Pole options

**P120:** 413F, low-copper cast aluminum. 6063-T6 extruded aluminum. Anchor rods are hot dipped galvanized steel. Tenon/Top: 3" OD., Bolt Circle: 7 1/2" - 9 1/2", Anchor Rods: (4) 3/4" dia. x 19", Base Dimensions: 11 1/2" dia. x 2 3/8", Base Cover: (Included) 12 1/8" dia. x 3 1/4", Hand Hole: 2" x 4" Oval, Shaft: 4" - 3" Tapered, Wall Thickness: 0.125 Aluminum, Height: 8', 10', 12', 14'

**P150:** 356 HM high-strength, low-copper, proprietary cast aluminum alloy. 319 permanent mold aluminum. 6005-T5 extruded aluminum. Anchor rods are hot dipped galvanized steel. Tenon/Top is 3" OD., Bolt Circle is 7", Anchor Rods: (3) 1/2" dia. x 15 1/2", Base Dimensions: 9 5/8" dia. x 1 3/8", Base Cover: (Included) 10 1/4" dia. x 2 3/4", Hand Hole: 2" x 4" Oval, Shaft: 3" Straight, Wall Thickness: 0.125 Aluminum, Height: 8' or 10'

