LUMEC
by signify

Urban

TownGuide

PBDP103
Classic T Post Top

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:

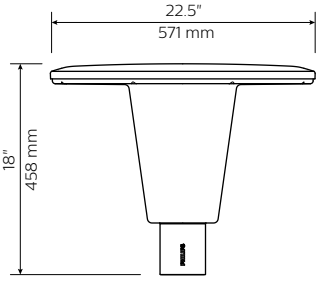
Ordering guide

Example: PBDP103-101W128LED4K-MP-PC-C-LE5-UNV-CDMGM25-RCD-PH8-P120-12-GR

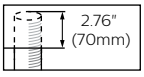
Series	Lamp	LED type	Globe material	Globe finish	Optical system	Voltage	Driver options	House Side Shield	Luminaire options	Luminaire accessory[3]	Pole type & height	Finish
PBDP103		MP	PC				DMG					
PBDP103 Classic T	**3000K** **50W64LED3K** **61W64LED3K** **75W96LED3K** **95W128LED3K** **101W128LED3K** **4000K** **50W64LED4K** **61W64LED4K** **75W96LED4K** **95W128LED4K** **101W128LED4K**	**MP**	**PC**	**C**	**LE2** **LE3** **LE5**	**UNV** **HVU**	**DMG**	**HS**	**N** **RCD7[1]**	**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.
2. Failure to properly select the "**BAC**" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
3. Consult Signify to confirm whether specific accessories are BAA-compliant.

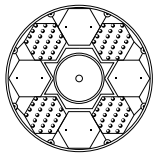
Luminaire



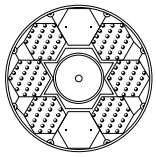
EPA: 1.001sq. ft.
Weight: 15.98 lbs



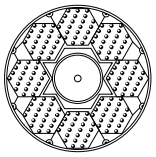
Arrangement of the LED modules in the luminaire, viewed from the road axis.



4 modules (64LED)



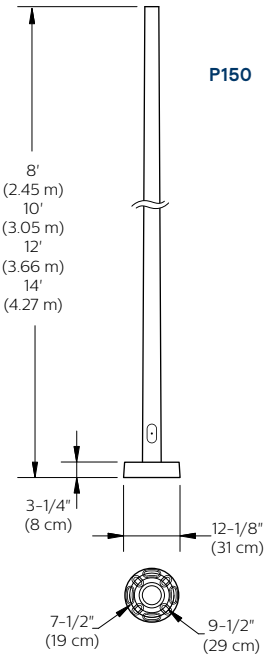
6 modules (96LED)



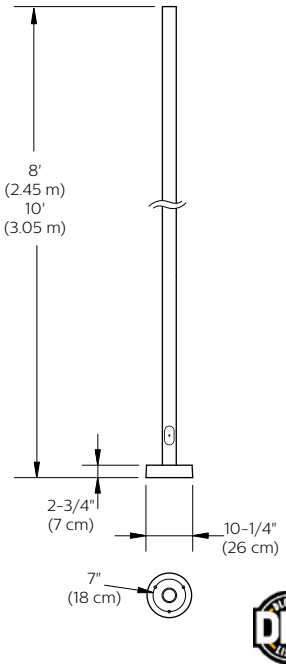
8 modules (128LED)

Poles

P120



P150



PBDP103 TownGuide Classic T Post Top

Urban Luminaire

Clear Globe

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	4557	91	B1-U2-G1	4635	92	B1-U2-G1	4743	94	B2-U2-G1
61W64LED3K-MP-PC-C	64	284	62	5208	85	B1-U3-G1	5214	85	B1-U2-G1	5375	87	B3-U2-G1
75W96LED3K-MP-PC-C	96	234	75	6787	90	B2-U3-G1	6869	91	B2-U3-G1	7040	93	B3-U3-G1
95W128LED3K-MP-PC-C	128	229	95	8744	92	B2-U3-G2	8754	92	B2-U3-G2	9023	94	B3-U3-G1
101W128LED3K-MP-PC-C	128	243	101	9110	90	B2-U3-G2	9120	90	B2-U3-G2	9401	93	B3-U3-G2

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

50W64LED4K-MP-PC-C	64	239	51	4799	95	B1-U3-G1	4880	97	B1-U3-G1	4994	99	B2-U2-G1
61W64LED4K-MP-PC-C	64	284	62	5485	89	B1-U3-G1	5491	89	B1-U3-G1	5660	92	B3-U2-G1
75W96LED4K-MP-PC-C	96	234	76	7147	95	B2-U3-G2	7233	96	B2-U3-G2	7413	98	B3-U3-G1
95W128LED4K-MP-PC-C	128	229	96	9208	96	B2-U3-G2	9218	96	B2-U3-G2	9502	99	B3-U3-G2
101W128LED4K-MP-PC-C	128	243	102	9593	94	B2-U3-G2	9604	95	B2-U3-G2	9900	98	B3-U3-G2

Frosted Globe

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)	LE5		
				Delivered Lumens (LM)	Efficacy (LPW)	BUG rating
50W64LED3K-MP-PC-FO	64	239	50	3063	61	B1-U3-G1
61W64LED3K-MP-PC-FO	64	284	62	3468	56	B1-U3-G1
75W96LED3K-MP-PC-FO	96	234	75	4543	60	B2-U3-G1
95W128LED3K-MP-PC-FO	128	229	95	5768	60	B2-U3-G1
101W128LED3K-MP-PC-FO	128	243	101	6010	59	B2-U3-G1

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

50W64LED4K-MP-PC-FO	64	239	51	3259	65	B1-U3-G1
61W64LED4K-MP-PC-FO	64	284	62	3690	60	B1-U3-G1
75W96LED4K-MP-PC-FO	96	234	76	4833	64	B2-U3-G1
95W128LED4K-MP-PC-FO	128	229	96	6137	64	B2-U3-G1
101W128LED4K-MP-PC-FO	128	243	102	6394	63	B2-U3-G1

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.

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Urban Luminaire

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.

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.

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

DMG: Dimmable driver 0-10Vt.

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.

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.

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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'

LED Performance

Predicted lumen depreciation data[1]				
Ambient Temperature (°C)	Driver mA	Calculated L_{70} hours[1,2]	L_{70} per TM-21[2,3]	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_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours.

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