Fixture Legend

GARDCO by Signify — Site & Area — PureForm — LED bollard

GARDCO by Signify — Wall Mount — PureForm — LED wall sconce

GARDCO by Signify — Site & Area — EcoForm — ECF-S small area light

LUMEC by Signify — Urban — TownGuide — PBDP103 Classic T Post Top

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Input Power
	ECF3-HIS	5	GARDCO	ECF-S-32L-700-NW-G2-3-HIS	72.9
	PBL3	14	GARDCO	PBL-14L-450-WW-G2-3-UNV	23.1
	PBL5	12	GARDCO	PBL-14L-450-WW-G2-5-UNV	23.1
	TG2WW	9	LUUMEC	PBDP103-50W64LED3K-MP-PC-C-LE2	50.3
	TG5WW	7	LUMEC	PBDP103-50W64LED3K-MP-PC-C-LE5	50.3
	TG5HWW	2	LUMEC	PBDP103-95W128LED3K-MP-PC-C-LE5	95.5
	WP	6	GARDCO	PWS-48L-300-WW-G2-4	46.8

GENERAL NOTES:

1. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL LANDSCAPE LIGHTING.
2. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING ON FIXTURES A, G, GA, H2, WP.
3. THERE ARE ADDITIONAL ARCHITECTURAL FIXTURES FOR EMERGENCY OR ENTRY LIGHTING, AND LOW VOLTAGE AMENITY LIGHTING THAT ARE NOT INCLUDED IN THIS PHOTOMETRIC ANALYSIS.
4. SEE SHEET CS2202 FOR OVERALL SITE PHOTOMETRIC PLAN.
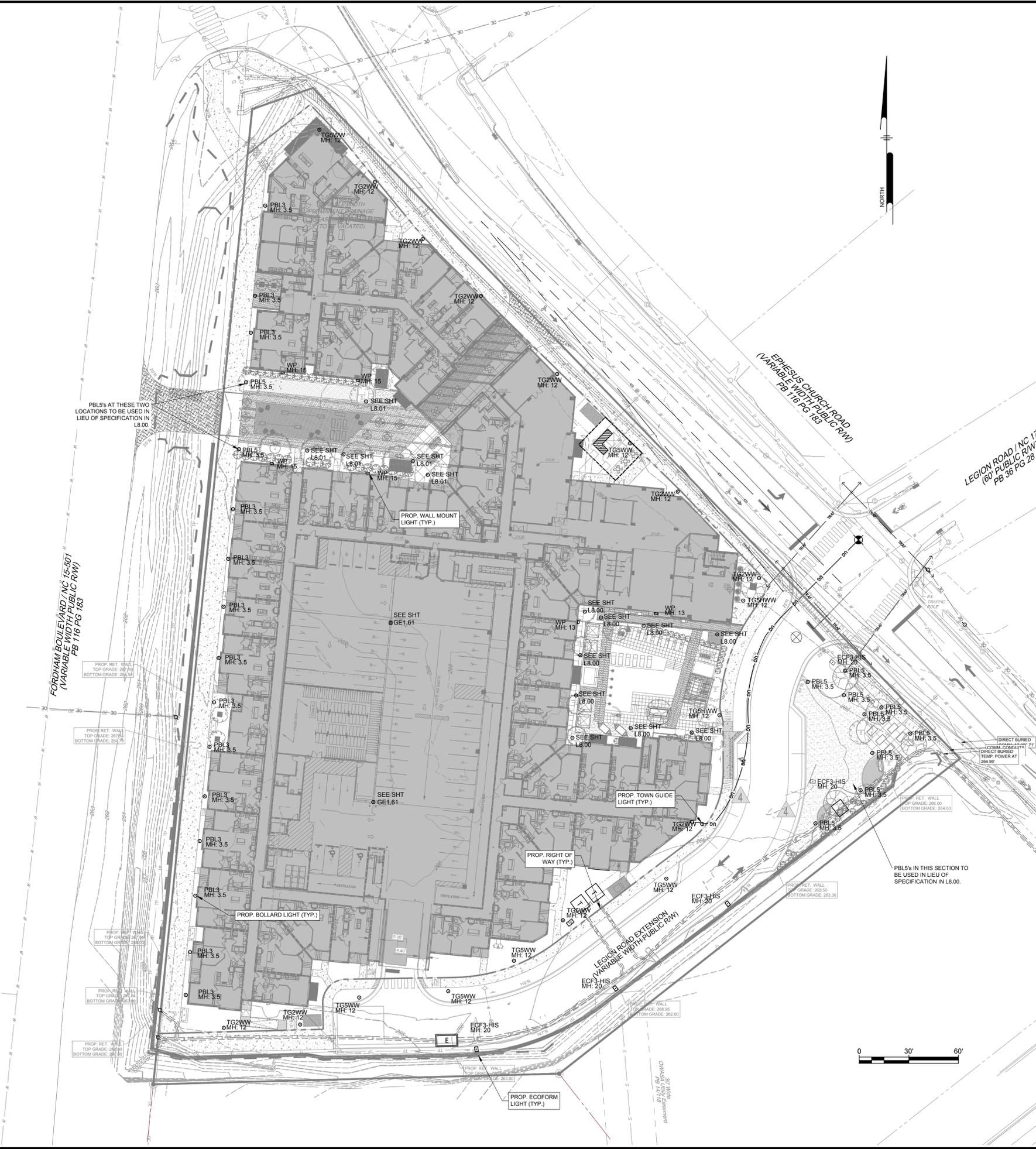
Plan callouts

PBL5's AT THESE TWO LOCATIONS TO BE USED IN LIEU OF SPECIFICATION IN L8.00.

PROP. WALL MOUNT LIGHT (TYP.)

PROP. TOWN GUIDE LIGHT (TYP.)

PROP. RIGHT OF WAY (TYP.)

PROP. BOLLARD LIGHT (TYP.)

PROP. ECOFORM LIGHT (TYP.)

PBL5's IN THIS SECTION TO BE USED IN LIEU OF SPECIFICATION IN L8.00.

EPHESUS CHURCH ROAD (VARIABLE WIDTH PUBLIC R/W) PB 116 PG 183

LEGION ROAD / NC 17ᴬ (60' PUBLIC R/W) PB 36 PG 28

FORDHAM BOULEVARD / NC 15-501 (VARIABLE WIDTH PUBLIC R/W) PB 116 PG 183

LEGION ROAD EXTENSION (VARIABLE WIDTH PUBLIC R/W)

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

MILLENNIUM CHAPEL HILL
1301 FORDHAM BLVD
CHAPEL HILL, NORTH CAROLINA

LIGHTING PLAN

MILLENNIUM CHAPEL HILL APARTMENTS, LLC
3411 RICHMOND AVENUE, FIFTH FLOOR
HOUSTON, TX 77046

Revisions

			LBW	BY
			LBW	
			CRP	
			CRP	
			CRP	
S	ASI #14 SITE REVISIONS			
Q	ASI #12			
13	REVISIONS PER FINALIZED DUKE ENERGY DESIGN			
12	RFI #88			
E	ISSUED FOR CONSTRUCTION			
				REVISIONS
S	10/15/2024			
Q	08/02/2024			
13	11/03/2023			
12	05/31/2023			
E	02/17/2023			
NO.	DATE			

PROJECT	DINCO20001
DATE	06/25/2021
DRAWING SCALE	1" = 30'
DRAWN BY	KNB
APPROVED BY	PCB

CS2201

SHEET 16 OF 40

GARDCO
by **Signify**

Gardco PureForm LED bollard PBL integrates a sleek, low profile design, extraordinary light output, and energy savings into an innovative pedestrian scale luminaire. PureForm bollard features a high performance optical system designed to achieve wide spacings and full cutoff performance. Three heights available for a customized look. IP66 optics ensure dust or moisture will never interfere with performance.

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

Ordering guide

example: PBL-42-14L-450-NW-G2-5-UNV

Prefix	Shaft Height	Number of LEDs	Drive Current	LED Color – Generation	Distribution	Emergency	Voltage
PBL							
PBL PureForm bollard	**36** Standard Shaft 36"	**14L** 14 LEDs (full ring)	**100** 100 mA	**WW-G2** Warm White 3000K, 70 CRI Generation 2	**Type 3**	Leave blank for no battery	**120** 120V
	42 Standard Shaft 42"		**200** 200 mA	**NW-G2** Neutral White 4000K, 70 CRI Generation 2	**3** Type 3	**EBP** Emergency battery [2,8,11]	**208** 208V
	60 Standard Shaft 60"		**350** 350 mA	**CW-G2** Cool White 5000K, 70 CRI Generation 2 [1]	**Type 5**		**240** 240V
			450 450 mA		**5** Type 5		**277** 277V
			600 600 mA				**347** 347V
			800 800 mA				**480** 480V
			1050 1050 mA				**UNV** 120–277V (50/60Hz)

Options

Dimming controls	Motion sensing	Photo-sensing	Electrical	Finish
DD 0-10V External dimming (by others) [4,5] **FAWS** Field Adjustable [4,5] **SW** Interface module for SiteWise [3,4,5,6] **LLC** Wireless controls without PIR sensor [4,5,6] **BL** Bi-level functionary with motion sensor [4,12] **DynaDimmer:** Automatic Profile Dimming [4,5] **CS50** Security 50% Dimming, 7 hours **CM50** Median 50% Dimming, 8 hours **CS30** Security 30% Dimming, 7 hours **CM30** Median 30% Dimming, 8 hours	**IMRI** Integral infrared [7,12]	**PCB** Photocontrol Button [9,13]	**Fusing** **F1** Single (120, 277, 347VAC) [9] **F2** Double (208, 240, 480VAC) [9] **F3** Canadian Double Pull (208, 240, 480VAC) [9] **Surge Protection** (10kA standard) **SP2** Increased 20kA **GFCI** Ground Fault Interrupt Outlet [10]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)

1. Extended lead times apply. Contact factory for details.
2. Not available in 100, 200 or 350mA.
3. Available in 120V or 277V only.
4. Not available with other control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Available only with BL dimming control.
8. Not available with SW, LLC, and CS/CM.
9. Must specify input voltage.
10. Available in 120V only.
11. Not available in 347 or 480V.
12. Not available in 100, 200, and 1050mA.
13. Not available with SW or LLC.

GARDCO by **signify**

Gardco PureForm LED wall sconce PWS with precision optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 21,800 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

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

Ordering guide

example: PWS-48L-500-NW-G2-2-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options — Dimming controls	Motion-sensing lens	Photo-sensing	Electrical & Shield	Finish
PWS											
PWS PureForm wall sconce	**48L** 48 LEDs	**300** 300mA[1]	**WW-G2** Warm White 3000K, 70 CRI Generation 2	**2** Type 2	**EBPC** Emergency Battery Pack Cold Weather [1,3,10]	**UNV** 120–277V	**DD** 0-10V External dimming (controls by others) [4]	**IMRI2** [15] Integral with #2 lens	**PCB** Photocontrol Button [7,8,12]	**Fusing**	**Textured**
		400 400mA		**3** Type 3		**HVU** 347-480V	**DCC** Dual Circuit Control [4,5,6,9]			**F1** Single (120, 277, 347VAC) [8]	**BK** Black
		500 500mA	**NW-G2** Neutral White 4000K, 70 CRI Generation 2			**120** 120V	**FAWS** Field Adjustable Wattage Selector [4,5]	**IMRI3** [15] Integral with #3 lens			**WH** White
		600 600mA		**4** Type 4	Leave blank to omit an emergency option	**208** 208V	**SW** Interface Module for SiteWise [3,4,6]			**F2** Double (208, 240, 480VAC) [8]	**BZ** Bronze
		700 700mA	**CW-G2** Cool White 5000K, 70 CRI Generation 2	**BLC** Back light control		**240** 240V	**LCC** Integral wireless module [4,6,7,11,14]				**DGY** Dark Gray
						277 277V	**BL** Bi-level functionality [4,14]			**F3** Canadian Double Pull (208, 240, 480VAC) [8]	**MGY** Medium Gray
	64L 64 LEDs	**600** 600mA	**WY-G2** Warm Yellow 2700K, 80 CRI Generation 2 [2]			**347** 347V	**DynaDimmer: Automatic Profile Dimming** [4,7]				
		700 700mA				**480** 480V	**CS50** Security 50% Dimming, 7 hours			**Surge Protection (10kA is standard)**	**Customer specified**
		800 800mA	**BW-G2** Balanced White 3500K, 80CRI Generation 2 [2]				**CM50** Median 50% Dimming, 8 hours			**SP2** Increased 20kA	**RAL** Specify optional color or RAL (ex: RAL7024)
		900 900mA					**CS30** Security 30% Dimming, 7 hours				
			AM-G2 Direct Amber (590nm) Generation 2 [2,13]				**CM30** Median 30% Dimming, 8 hours				**CC** Custom color (Must supply color chip for required factory quote)

1. Only 300mA can be used with battery backup (EBPC) configuration.
2. Extended lead times apply. Contact factory for details.
3. Available only in 120 or 277V.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Must specify input voltage.
9. Available with two modules per circuit (64L) at 600mA.
10. Not available with DCC, SW, and CS/CM.
11. Not available in 800 or 900mA.
12. Not availablewith 64L.
13. Must specify a motion sensor lens.
14. Limited to max. 600mA configurations.
15. Not available with DD, DCC, and FAWS dimming control options.

GARDCO

by **signify**

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color – Generation	Mounting	Distribution	Voltage	Options					
							Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
ECF-S												
ECF-S EcoForm site and area, small	**32L** 32 LEDs (2 modules)	**365** 365 mA **530** 530 mA **700** 700 mA **1A** 1050 mA **1.2A** 1200 mA	WW-G2 Warm White 3000K, 70 CRI Generation 2 NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5000K, 70 CRI Generation 2	AR Arm Mount (standard)[2] *The following mounting kits must be ordered separately (See accessories)* SF Slip Fitter Mount[3] (fits to 2 3/8" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM Retrofit arm mount kit[2]	**Type 2** 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° **Type 3** 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° **Type 4** 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° **Type 5** 5 Type 5 5W Type 5W AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120–277V (50/60Hz) **HVU** 347–480V (50/60Hz)	**DD** 0-10V External dimming (by others)[4] **DCC** Dual Circuit Control[4,5,6] **FAWS** Field Adjustable Wattage Selector[4,5] **SW** Interface module for SiteWise[4,6,7] **LLC** Integral wireless module[4,6,8,17] **BL** Bi-level functionality[1,4,17] **DynaDimmer:** Automatic Profile Dimming **CS50** Safety 50% Dimming, 7 hours[4,8] **CM50** Median 50% Dimming, 8 hours[4,8] **CS30** Safety 30% Dimming, 7 hours[4,8] **CM30** Median 30% Dimming, 8 hours[4,8]	**IMRI3** Integral with #3 lens[15] **IMRI7** Integral with #7 lens[16]	**PCB** Photocontrol Button[8,9] **TLRD5** Twist Lock Receptacle 5 Pin[10] **TLRD7** Twist Lock Receptacle 7 Pin[10] **TLRPC** Twist Lock Receptacle w/ Photocell[9,11]	**Fusing** **F1** Single (120, 277, 347VAC)[9] **F2** Double (208, 240, 480VAC)[9] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC)[9] **FP2** Double (208, 240, 480VAC)[9] **FP3** Canadian Double Pull (208, 240, 480VAC)[9] **Surge Protection** (10kA standard) **SP2** Increased 20kA	Square Pole Adapter included in standard product **TB** Terminal Block[12] **RPA** Round Pole Adapter (fits to 3"- 3.9" O.D. pole)[13] **HIS** Internal Housing Side Shield[14]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)	**900** 900 mA **1A** 1050 mA **1.2A** 1200 mA										
	64L 64 LEDs (4 modules)	**900** 900 mA **1A** 1050 mA										

1. BL-IMRI3/7 equipped with out-boarded sensor housing when voltage is HVU (347-480V).
2. Mounts to a 4" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Available only in 120 or 277V.

8. Not available in 347 or 480V.
9. Must specify input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V. Order photocell separately with TLRD5/7.
12. Not available with DCC.
13. Not available with SF and WS. RPAs provided with black finish standard.

14. HIS not available with Type 5 and 5W optics.
15. Not available with DD, DCC, and FAWS dimming control options.
16. Not available with DD, DCC, FAWS and LLC dimming control options.
17. Must specify a motion sensor lens.

LUMEC
by signify

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:
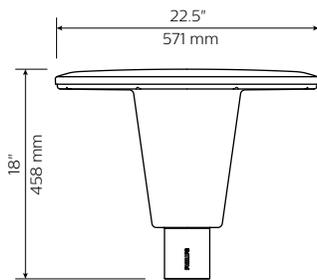
Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

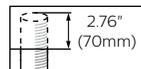Example: PBDP103-101W128LED4K-MP-PC-C-LE5-UNV-CDMGM25-RCD-PH8-P120-12-GR

Series	Lamp	Lamp type	Globe material	Globe finish	Optical system	Voltage	Driver options	House Side Shield	Luminaire options	Luminaire accessory	Pole type & height	Finish
PBDP103		**MP**					**DMG**					
PBDP103 Classic T	**3000K** 50W64LED3K 61W64LED3K 75W96LED3K 95W128LED3K 101W128LED3K **4000K** 50W64LED4K 61W64LED4K 75W96LED4K 95W128LED4K 101W128LED4K	**MP**	**PC** FO	**C**	**LE2** LE3 LE5	**UNV** HVU		HS	N RCD7 [1]	PH8 **PH9**	P120-8 P120-10 **P120-12** P120-14 P150-8 P150-10	BKST BRST GR MGY WHST

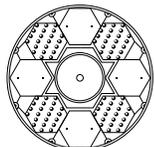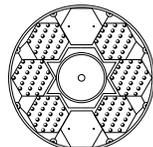1. Use of Luminaire accessory **PH8** or **PH9** is required to ensure proper illumination.

Luminaire

22.5"
571 mm

18"
458 mm

EPA: 1.001sq. ft.
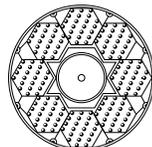**Weight**: 15.98 lbs

2.76"
(70mm)

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

8' (2.45 m)
10' (3.05 m)
12' (3.66 m)
14' (4.27 m)

8' (2.45 m)
10' (3.05 m)

3-1/4" (8 cm)

12-1/8" (31 cm)

7-1/2" (19 cm)
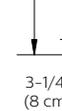
9-1/2" (29 cm)

2-3/4" (7 cm)

10-1/4" (26 cm)

7" (18 cm)

LUMEC
by **signify**

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: _____

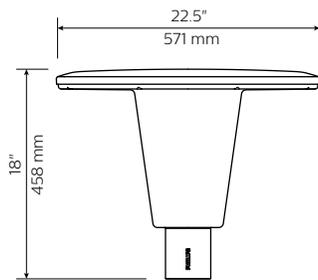Lamps: _____ Qty: _____

Notes: _____

Ordering guide

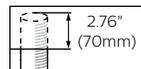Example: PBDP103-101W128LED4K-MP-PC-C-LE5-UNV-CDMGM25-RCD-PH8-P120-12-GR

Series	Lamp	Lamp type	Globe material	Globe finish	Optical system	Voltage	Driver options	House Side Shield	Luminaire options	Luminaire accessory	Pole type & height	Finish
PBDP103		**MP**					**DMG**					
PBDP103 Classic T	**3000K** 50W64LED3K 61W64LED3K 75W96LED3K 95W128LED3K 101W128LED3K **4000K** 50W64LED4K 61W64LED4K 75W96LED4K 95W128LED4K 101W128LED4K	**MP**	**PC** FO	**C**	LE2 LE3 **LE5**	**UNV** HVU		HS	N RCD7[1]	PH8 **PH9**	P120-8 P120-10 **P120-12** P120-14 P150-8 P150-10	BKST BRST GR MGY WHST

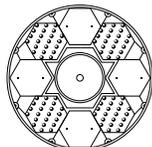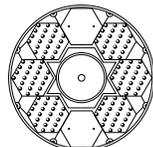1. Use of Luminaire accessory **PH8** or **PH9** is required to ensure proper illumination.

Luminaire

22.5"
571 mm

18"
458 mm

EPA: 1.001 sq. ft.
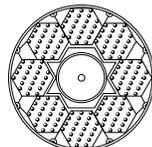**Weight**: 15.98 lbs

2.76"
(70mm)

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

4 modules (64LED)   6 modules (96LED)   8 modules (128LED)

Poles

P120

8' (2.45 m)
10' (3.05 m)
12' (3.66 m)
14' (4.27 m)

3-1/4" (8 cm)

12-1/8" (31 cm)

7-1/2" (19 cm)   9-1/2" (29 cm)

P150

8' (2.45 m)
10' (3.05 m)

2-3/4" (7 cm)

10-1/4" (26 cm)

7" (18 cm)