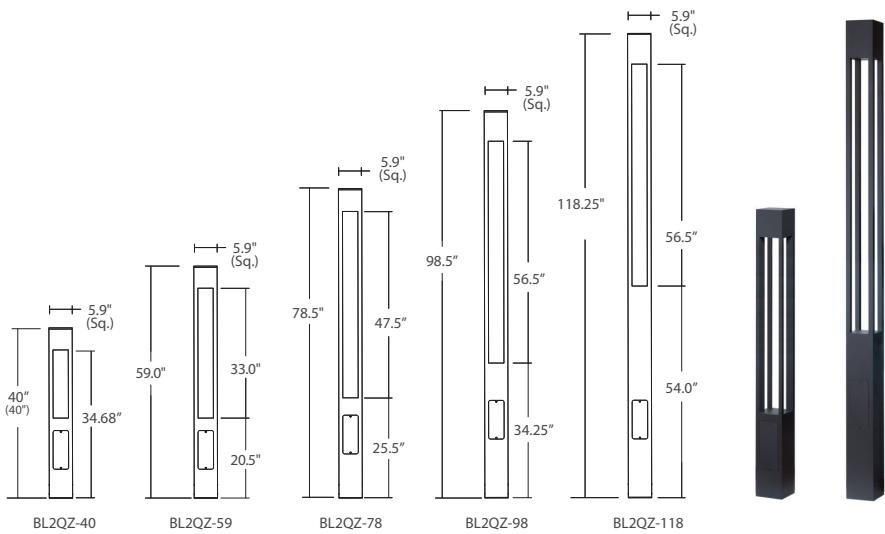


# BL2QZ : LUMENPOLE SQUARE BOLLARD & COLUMN

6" OPEN FRAME - 40", 59", 78", 98", AND 118" HEIGHT  
1100LM-3000LM (20W-50W)



- Up to 50W, 3000lm delivered
- Dark Sky Compliant
- U.S. Assembled
- Tamper Resistant Hardware
- IK8 Impact Rating
- Integral Emergency Option
- Optional Photocell Sensor
- Quick Ship Options Available
- 90 CRI Standard, 80 CRI on 5000K

ORDERING : BL2QZ-59B-L30-SYM-WUE-D10-T30-C90-SRG

BL2QZ							
Fixture	Height	Finish	Lumens	Optic	Driver	LED	Options

Height	Lumens		Driver		Options	
40" Bollard <b>-40<sup>1</sup></b>	1100lm (20W)	<b>-L18</b>	Non-Dimming (120V)	<b>Blank</b>	None	<b>Blank</b>
59" Light Column <b>-59</b>	1600lm (27W)	<b>-L24</b>	ELV and TRIAC Dimming (120V)	<b>-DIN</b>	Photocell Sensor (120V/277V)	<b>-UE-SDL<sup>5</sup></b>
78" Light Column <b>-78</b>	2500lm (42W)	<b>-L30</b>	0-10V Dimming (120V/277V)	<b>UE-D10</b>	Surge Protector	<b>-SRG<sup>5</sup></b>
98" Light Column <b>-98</b>	3000lm (50W)	<b>-L34<sup>2,4</sup></b>	UniDim™ (120V/277V)	<b>UE-DUN</b>	Integral Emergency Battery	<b>-EMAC<sup>5</sup></b>
118" Light Column <b>-118<sup>1</sup></b>			347V	<b>-347</b>	Frosted Lens	<b>-FR</b>
Finish		Optic			Cold Weather	<b>-CW<sup>3,4</sup></b>
Black <b>B</b>	Symetric Narrow (45°)	<b>-SYM-N</b>	DALI Dimming	<b>-DLI<sup>1</sup></b>	LED	
White <b>W<sup>1</sup></b>	Symetric Wide (75°)	<b>-SYM-W</b>			2700K (90CRI)	<b>-T27-C90</b>
Silver <b>S<sup>1</sup></b>	Asymmetric Forward Throw	<b>-ASY-FT</b>			3000K (90CRI)	<b>-T30-C90</b>
Basic Bronze <b>BZ<sup>1</sup></b>	Asymmetric Wide	<b>-ASY-W</b>			3500K (90 CRI)	<b>-T35-C90</b>

<sup>1</sup> Special order. Minimum order quantity, extended lead time, and setup fee may apply. Consult factory.

<sup>2</sup> For BL2QZ-98 and BL2QZ-118 only.

<sup>3</sup> Starting Temperature -40°C/-40°F.

<sup>4</sup> (-L34) and (-CW) only compatible for (-347) driver.

<sup>5</sup> Not rated for cold weather. Minimum fixture outdoor temperature 0°C/32°F.

<sup>6</sup> -TAM-LVR option only available with Lumens -L18 and -L24

Consult factory for possible additional options including: USB, AC outlet, speaker hubs, wireless, node mounting, PC/Motion sensor, 7-pin photocell receptacle (C136.41 compliant) only w/shorting cap, accepts standard twist-lock photocell or PC/Control Node for wireless dimming control.

## SPECIFICATION

### Application

6" diameter LumenPole Light Columns and Bollards are designed for architectural relevance to intimate indoor and outdoor environments where pedestrian level illumination is required. The LED COB with reflector provides illumination downward on the ground to light walkways, public gathering spaces, gardens, along waterfronts and marinas and other public and private areas. Typical applications include residential, commercial, and retail.

### Housing & Arms

Housing and Arms are constructed from square and rectilinear shaped highgrade robust aluminum extrusions. A clear tempered glass lens is sealed to the Faceplate with a silicone O-ring. The Faceplate and end caps are die-cast aluminum and seal the housing (top and bottom) using silicone O-rings. A fabricated aluminum mounting plate and stainless steel U mounting plate (59" - 118" H) installs onto supplied stainless steel anchor bolts and secures into the housing with countersunk, Phillips head, stainless steel screws.

### Mounting

The 5.7" square mounting plate with U-bracket installs supplied stainless steel anchorbolts (or other hardware) on a solid substrate. For specific mounting options see installation instructions.

### Finish

A 7-stage electrostatic, polymer process provides an outdoor powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation.



#### Standard Finishes:

White:	RAL 9005 (B)
Silver:	RAL 7037 (S)
Bronze:	RAL 8019 (BZ)
Black:	RAL 9005 (B)

Consult factory for Custom Color.

Paint does not contain any copper compounds or elements.

### Certification and Listings



US Assembled



Dark Sky



Cold Weather



IP66



IK08



Intertek

ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP66)

Assembled in USA.

Dark Sky - Dark Sky compliant.

IK08 rated - Protected against 5 joules impact. Equivalent to impact of 1.7 kg mass dropped from 300 mm above impacted surface.

## SPECIFICATION (Continued)

### Caution

LITON recommends use of surge protectors on incoming power. Locate them in the most convenient servicing location. Surge damage is not covered by warranty.

### Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60°C. Doing so will result in reduced lamp life and voided warranty.

### Optics

Multifaceted aluminum coated reflectors produce Symmetric Narrow (-SYM-N) 45°, Symmetric Wide (-SY-W) 75°, Asymmetric Forward Throw (-ASY-FT), and Asymmetric Wide (-ASY-W) distributions.

### LED

COB (Chip on Board) singular LED light source provides for smooth, uniform light output, eliminating the multiple imaging produced by multiple LED source optics. Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.

### Lumen Maintenance

Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

### Lumen Options (Delivered)

1100lm (20W), 1600lm (27W), 2500lm (42W), 3000lm (50W)

### Color Temperature

COLOR TEMP:	2700K	3000K	3500K	4000K	5000K
CRI:	90	90	90	90	80

Amber: 590nm (Turtle Safe)



### Quick Ship Items

BL2QZ-59B-Lxx-SYM-WUE-DUN-T27-C90  
BL2QZ-59B-Lxx-SYM-WUE-DUN-T30-C90  
BL2QZ-59B-Lxx-SYM-WUE-DUN-T35-C90  
BL2QZ-59B-Lxx-SYM-WUE-DUN-T40-C90  
BL2QZ-59B-Lxx-SYM-NUE-DUN-T27-C90  
BL2QZ-59B-Lxx-SYM-NUE-DUN-T30-C90  
BL2QZ-59B-Lxx-SYM-NUE-DUN-T35-C90  
BL2QZ-59B-Lxx-SYM-NUE-DUN-T40-C90  
BL2QZ-78B-Lxx-SYM-WUE-DUN-T27-C90  
BL2QZ-78B-Lxx-SYM-WUE-DUN-T30-C90  
BL2QZ-78B-Lxx-SYM-WUE-DUN-T35-C90  
BL2QZ-78B-Lxx-SYM-WUE-DUN-T40-C90  
BL2QZ-78B-Lxx-SYM-NUE-DUN-T27-C90  
BL2QZ-78B-Lxx-SYM-NUE-DUN-T30-C90  
BL2QZ-78B-Lxx-SYM-NUE-DUN-T35-C90  
BL2QZ-78B-Lxx-SYM-NUE-DUN-T40-C90

### Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted. Incoming power connects to Terminal Blocks. Power Factor > 0.90.

### Minimum Operating Temperature:

Standard driver: -30°C/-22°F  
Cold Weather driver: -40°C/-40°F

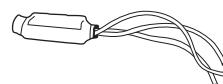
### Additional Options

Photocell (-UE-SDL): For 120V/277V input. Installed internally in fixture. Sensor provides a smart lighting control for energy efficient lighting.



Surge Protector(-SRG): Protects driver against surges in line voltage/current (20KV, 1.2/50μS & 10KA, 8/20μS).

At end-of-life Suppressor opens the circuit to protect the driver. Surge suppressor is a perishable device requiring periodic replacement. Not a warranted item.



Frosted Lens (-FR): Diffuses pattern to reduce shadowing from vertical support arms.



## SPECIFICATION (Continued)

### Dimming Options

#### ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

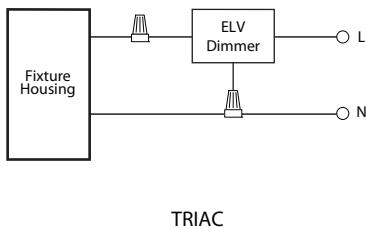
#### 0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

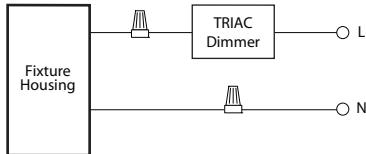
#### UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

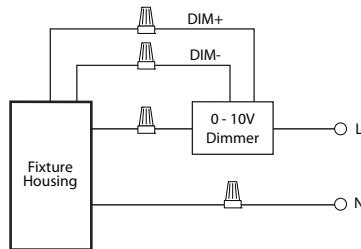
Incandescent/Phase Wiring  
ELV



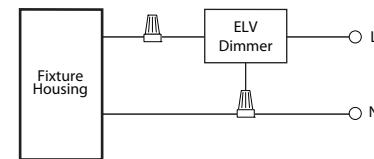
TRIAC



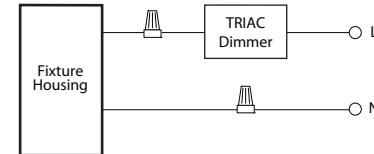
0 - 10V Wiring



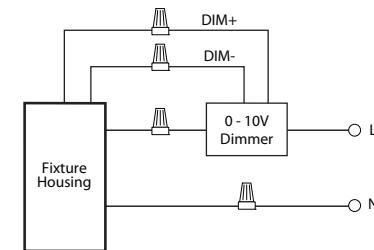
Incandescent/Phase Wiring  
ELV



TRIAC



0 - 10V Wiring



## SPECIFICATION (Continued)

### Integral Emergency Battery (-EMAC)

Integrally mounted inside fixture. Upon failure of normal utility power, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes.

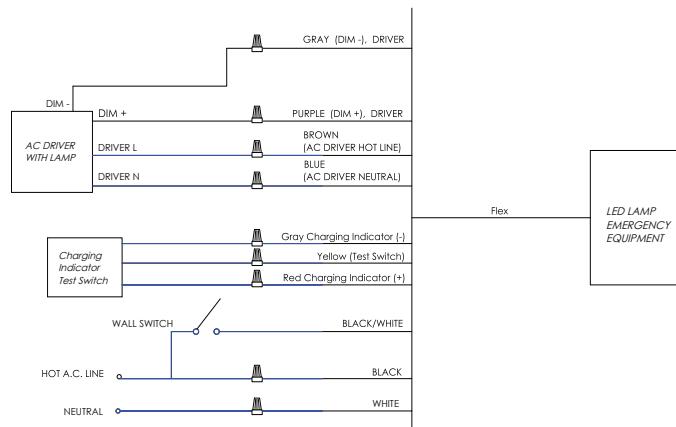
Level A Sound Rating.

Battery Operates @ 0°C to 40°C ambient (32°F to 104°F).

Battery re-charge within 24 hours.

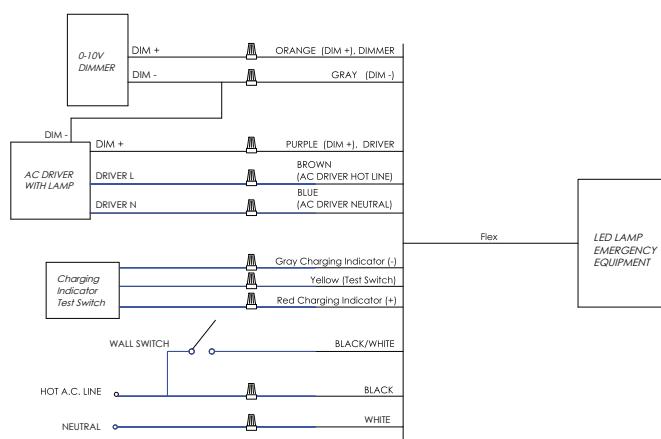
The battery is a maintenance-free, environmentally friendly Lithium Iron Phosphate with 50,000 hour life. A low voltage battery disconnect feature protects the battery from damage during prolonged power failures. Self-diagnostic feature monitors LED status, emergency LED driver circuit, battery capacity and charger function and displays any fault detection via test switch.

#### <40W LOAD



Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	40W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	2500lm

#### >40W LOAD



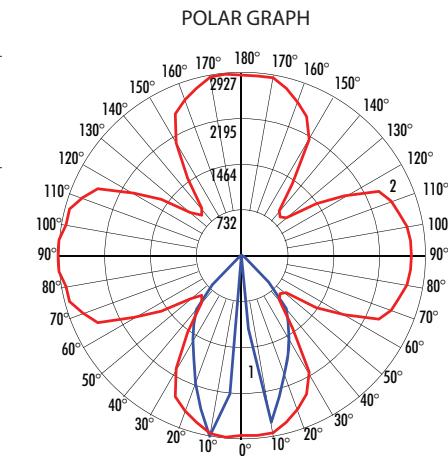
# BL2QZ : LUMENPOLE SQUARE BOLLARD & COLUMN

6" OPEN FRAME - 40", 59", 78", 98", AND 118" HEIGHT  
1100LM-3000LM (20W-50W)

## PHOTOMETRY

**BL2QZ-59-B-L30-SYM-N-T30-C90** (59" Height, 2500lm\*, 42W, Symmetric Narrow, 45°, 3000K)

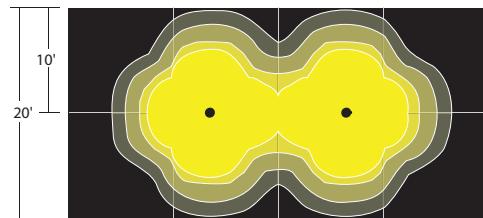
System Power:	43.1W	MULTIPLIERS
Test Date:	09/2023	LUMEN PACKAGE
Beam Angle 50%:	62.8°	L18 0.45
Field Angle 10%:	95.8°	L24 0.62
Color Temperature:	3000K	<b>L30 1.00</b>
CRI:	90	L34 1.16
Lumens Delivered:	2436	2700K: 0.94
CBCP:	2847	<b>3000K: 1.00</b>
Power Factor:	0.9	3500K: 1.03
		4000K: 1.07



Maximum Candela = 2927 Located At Horizontal Angle = 175, Vertical Angle = 10  
 # 1 - Vertical Plane Through Horizontal Angles (175 - 355) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

FOOTCANDLES ON GROUND  
 2 Fixture Overlap, 13 Ft. Spacing  
 4.45 Ft. Light Source Mtg. Ht., 2436 lm

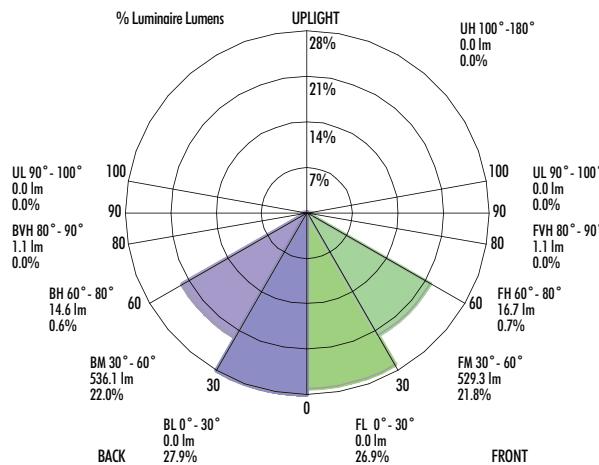
1 fc .5 fc .2 fc .1 fc



## LCS TABLE

BUG RATING		B2-U0-G0	
FRONT		Lumens	Lumens %
Low (0-30°)	0.0	26.9%	
Medium (30°-60°)	529.3	21.8%	
High (60°-80°)	16.7	0.7%	
Very High (80°-90°)	1.1	0.0%	
BACK			
Low (0-30°)	0.0	27.9%	
Medium (30°-60°)	536.1	22.0%	
High (60°-80°)	14.6	0.6%	
Very High (80°-90°)	1.1	0.0%	
UPLIGHT			
Low (90°-100°)	0.0	0.0%	
High (100°-180°)	0.0	0.0%	

## LCS GRAPH



\*Lumens delivered

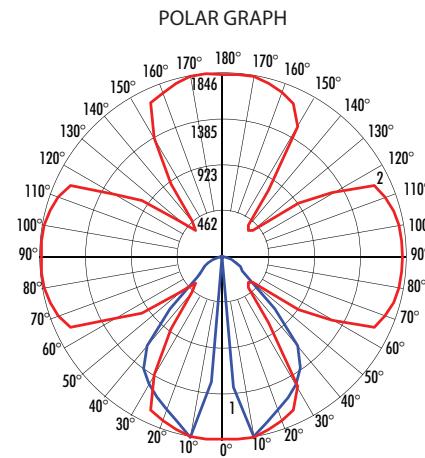
# BL2QZ : LUMENPOLE SQUARE BOLLARD & COLUMN

6" OPEN FRAME - 40", 59", 78", 98", AND 118" HEIGHT  
1100LM-3000LM (20W-50W)

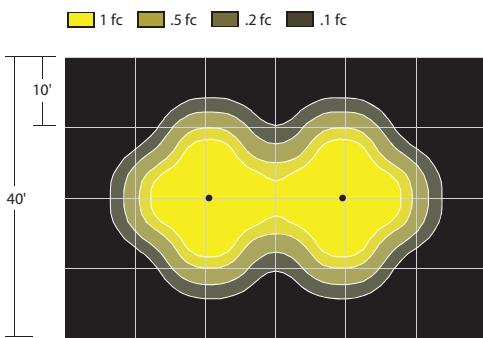
## PHOTOMETRY (Continued)

### BL2QZ-59-B-L30-SYM-W-T30-C90 (59" Height, 2500lm\*, 42W, Symmetric Wide, 75°, 3000K)

System Power:	42.9W	MULTIPLIERS	
Test Date:	09/2023	LUMEN PACKAGE	
Beam Angle 50%:	86.0°	L18	0.45
Field Angle 10%:	123.8°	L24	0.62
Color Temperature:	3000K	<b>L30</b>	<b>1.00</b>
CRI:	90	L34	1.16
Lumens Delivered:	2497		
CBCP:	1821		
Power Factor:	0.9		
		CCT	
		2700K:	0.94
		<b>3000K:</b>	<b>1.00</b>
		3500K:	1.03
		4000K:	1.07



**FOOTCANDLES ON GROUND**  
2 Fixture Overlap, 19 Ft. Spacing  
4.45 Ft. Light Source Mtg. Ht., 2497 lm

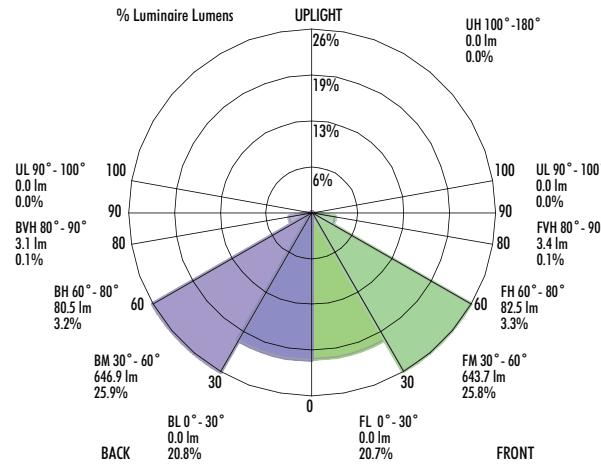


Maximum Candela = 1846 Located At Horizontal Angle = 95, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (95 - 275) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

#### LCS TABLE

FRONT		B2-U0-G0	
	Lumens	Lumens %	
Low (0-30°)	0.0	20.7%	
Medium (30°-60°)	643.7	25.8%	
High (60°-80°)	82.5	3.3%	
Very High (80°-90°)	3.4	0.1%	
<b>BACK</b>			
Low (0-30°)	0.0	20.8%	
Medium (30°-60°)	646.9	25.9%	
High (60°-80°)	80.5	3.2%	
Very High (80°-90°)	3.1	0.1%	
<b>UPLIGHT</b>			
Low (90°-100°)	0.0	0.0%	
High (100°-180°)	0.0	0.0%	

#### LCS GRAPH



\*Lumens delivered

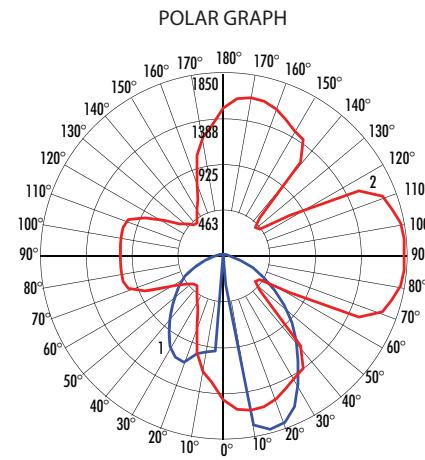
# BL2QZ : LUMENPOLE SQUARE BOLLARD & COLUMN

6" OPEN FRAME - 40", 59", 78", 98", AND 118" HEIGHT  
1100LM-3000LM (20W-50W)

## PHOTOMETRY (Continued)

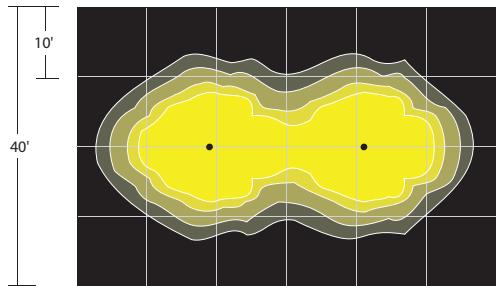
### BL2QZ-59-B-L30-ASY-FT-T30-C90 (59" Height, 2500lm\*, 42W, Asymmetric Forward Throw, 3000K)

System Power:	43.1W	MULTIPLIERS	
Test Date:	09/2023	LUMEN PACKAGE	
Beam Angle 50%:	75.2°	L18	0.45
Field Angle 10%:	114.2°	L24	0.62
Color Temperature:	3000K	<b>L30</b>	<b>1.00</b>
CRI:	90	L34	1.16
Lumens Delivered:	2333	CCT	
CBCP:	1849	2700K:	0.94
Power Factor:	0.9	<b>3000K:</b>	<b>1.00</b>
		3500K:	1.03
		4000K:	1.07



**FOOTCANDLES ON GROUND**  
2 Fixture Overlap, 22 Ft. Spacing  
, 4.45 Ft. Light Source Mtg. Ht., 2331lm

1 fc .5 fc .2 fc .1 fc

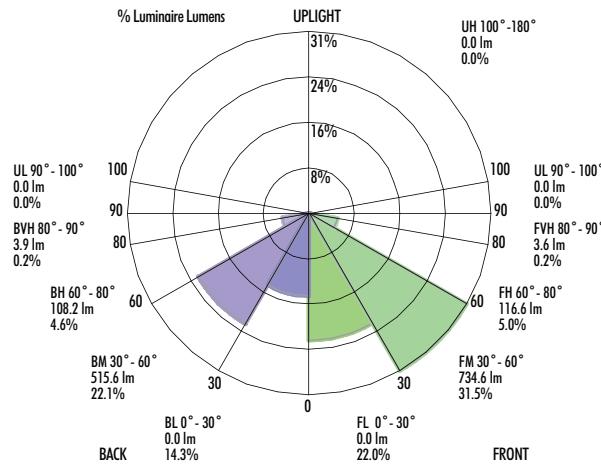


Maximum Candela = 1850 Located At Horizontal Angle = 5, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

LCS TABLE

BUG RATING		B1-U0-G0	
FRONT		Lumens	Lumens %
Low (0-30°)	0.0	22.0%	
Medium (30°-60°)	734.6	31.5%	
High (60°-80°)	116.6	5.0%	
Very High (80°-90°)	3.6	0.2%	
BACK			
Low (0-30°)	0.0	14.3%	
Medium (30°-60°)	515.6	22.1%	
High (60°-80°)	108.2	4.6%	
Very High (80°-90°)	3.9	0.2%	
UPLIGHT			
Low (90°-100°)	0.0	0.0%	
High (100°-180°)	0.0	0.0%	

LCS GRAPH



\*Lumens delivered

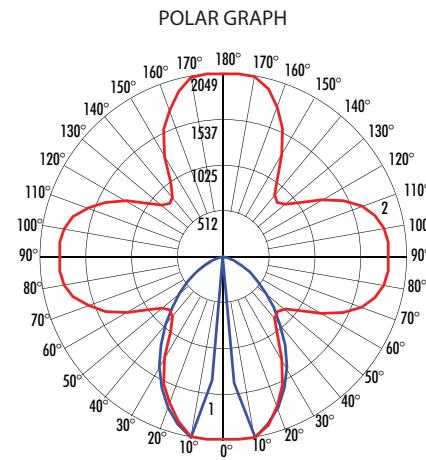
# BL2QZ : LUMENPOLE SQUARE BOLLARD & COLUMN

6" OPEN FRAME - 40", 59", 78", 98", AND 118" HEIGHT  
1100LM-3000LM (20W-50W)

## PHOTOMETRY (Continued)

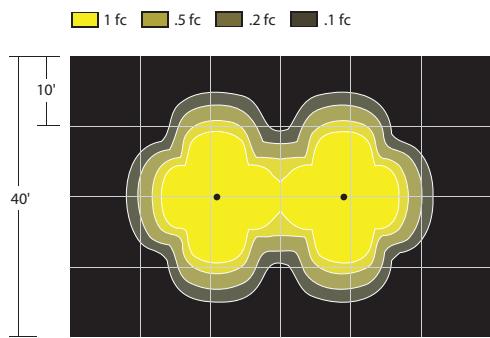
### BL2QZ-59-B-L30-ASY-W-T30-C90 (59" Height, 2500lm\*, 42W, Asymmetric Wide, 3000K)

System Power:	43.0W	MULTIPLIERS	LUMEN PACKAGE
Test Date:	09/2023	L18	0.45
Beam Angle 50%:	79.3°	L24	0.62
Field Angle 10%:	133.3°	<b>L30</b>	<b>1.00</b>
Color Temperature:	3000K	L34	1.16
		CCT	
CRI:	90	2700K:	0.94
Lumens Delivered:	2201	<b>3000K:</b>	<b>1.00</b>
CBCP:	2025	3500K:	1.03
Power Factor:	0.9	4000K:	1.07



Maximum Candela = 2049 Located At Horizontal Angle = 95, Vertical Angle = 10  
 # 1 - Vertical Plane Through Horizontal Angles (95 - 275) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

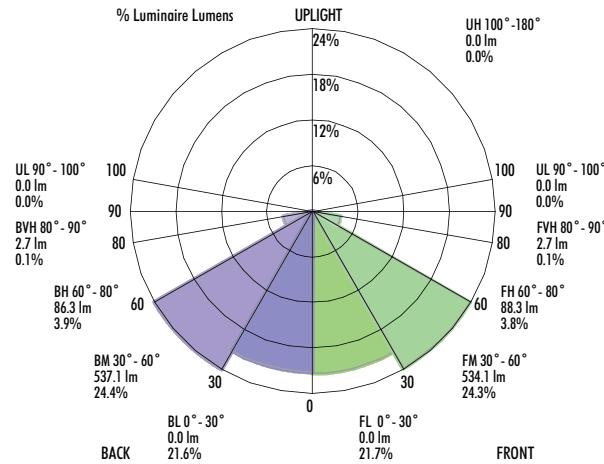
FOOTCANDLES ON GROUND  
 2 Fixture Overlap, 18 Ft. Spacing  
 4.45 Ft. Light Source Mtg. Ht., 2201 lm



LCS TABLE

FRONT		B1-U0-G0	
	Lumens	Lumens %	
Low (0-30°)	0.0	21.7%	
Medium (30°-60°)	534.1	24.3%	
High (60°-80°)	83.3	3.8%	
Very High (80°-90°)	2.7	0.1%	
BACK			
Low (0-30°)	0.0	21.6%	
Medium (30°-60°)	537.1	24.4%	
High (60°-80°)	86.3	3.9%	
Very High (80°-90°)	2.7	0.1%	
UPLIGHT			
Low (90°-100°)	0.0	0.0%	
High (100°-180°)	0.0	0.0%	

LCS GRAPH



\*Lumens delivered