

HADCO

by @signify

Urban

New London

VX8911 Post top



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

The Hadco New London LED post top has an elegance that accentuates the majesty and style of many urban architectural designs. It offers the style of traditional lanterns with today's cutting edge LEDgine technology. The optional cast aluminum spikes provide additional detailing to create the look you need.

Ordering guide

Example: VX8911-48-A-C-2-N-W-A-3-N-N-N-SP1-S-N

Series	LED count	Gen	Finish	Panels	Optics	Photo Control	Color Temp	Voltage	Drive Current	Integral Controls ²	Options			Surge Protect	Spikes	House Side Shield
											#1 ²	#2 ²	#3 ²			
VX8911		G2														
VX8911	32 ^{1,3} 32 LEDs 48 48 LEDs 64 64 LEDs	G2 Gen 2	A Black B White G Verde H Bronze J Green	C Clear F Frosted	2 Type 2 3 Type 3 3W Type 3 Wide 4 Type 4 5 Type 5	E 120 VAC button eye H 208/240/ 277 VAC button eye R 3-Pin Twist Lock Receptacle N None	N Neutral 4000K W Warm 3000K	A 120-277 B ^{2,3} 347-480	3 350mA 5 530mA 7 ¹ 700mA	Dynadimmer DA 4 Hrs, 25% reduction DB 4 Hrs, 50% reduction DC 4 Hrs, 75% reduction DD 6 Hrs, 25% reduction DE 6 Hrs, 50% reduction DF 6 Hrs, 75% reduction DG 8 Hrs, 25% reduction DH 8 Hrs, 50% reduction DJ 8 Hrs, 75% reduction DL DALI N None	AST Adjustable Start Up Time N None	CLO Constant Light Output N None	OTL Over The Life N None	SP1 10kV/10kA Surge Protector SP2 20kV/20kA Surge Protector	S Spikes N None	H House Side Shield N None

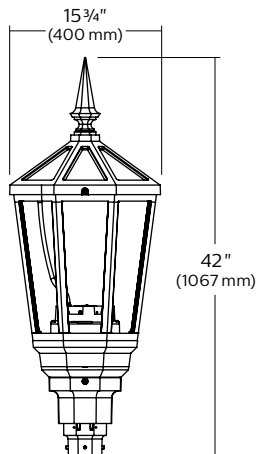
1. The 700mA (7) current is only compatible for 32 LEDs (32) configurations.
2. Configurations with 347-480VAC (B) voltage are not compatible with optional dimming or optional programming.
3. Configurations with 32 LEDs (32) at 350mA (3) and 530mA (5) currents are not compatible with 347-480 VAC (B) voltage.



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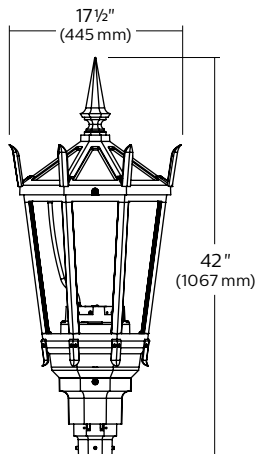
Post top

Dimensions



VX8911

Height: Without Spikes 42" (107cm)
Width: Without Spikes 15 3/4" (40cm)
Max. EPA: 2.7 sq. ft.
Max. Weight 38.5 lbs.



VX8911

Height: With Spikes 42" (107cm)
Width: With Spikes 17 1/2" (44.5cm)
Max. EPA: 2.7 sq. ft.
Max. Weight 38.5 lbs.

LED Wattage and Lumen Values for 3000K fixtures

Ordering Code: (3000K)	Total LEDs	System current (mA)	Average System Watts¹ (W)	Type 2			Type 3			Type 3W			Type 4			Type 5		
				Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating
Clear Panel VX8911 3000K																		
32-G2-C-x-W3	32	350	38	2499	65.8	B1-U2-G1	2450	64.5	B1-U2-G1	2583	68.0	B1-U2-G1	2495	65.7	B1-U2-G1	2665	70.1	B2-U2-G1
32-G2-C-x-W5	32	530	53	3585	67.6	B1-U2-G1	3514	66.3	B1-U2-G1	3705	69.9	B1-U2-G1	3579	67.5	B1-U2-G1	3823	72.1	B3-U2-G1
32-G2-C-x-W7	32	700	71	4521	63.7	B1-U2-G1	4432	62.4	B1-U2-G1	4673	65.8	B1-U2-G1	4514	63.6	B1-U2-G1	4821	67.9	B3-U2-G1
48-G2-C-x-W3	48	350	51	3749	73.5	B1-U2-G1	3675	72.1	B1-U2-G1	3875	76.0	B1-U2-G1	3743	73.4	B1-U2-G1	3998	78.4	B3-U2-G1
48-G2-C-x-W5	48	530	79	5377	68.1	B1-U3-G1	5271	66.7	B1-U3-G1	5557	70.3	B1-U2-G2	5368	67.9	B1-U2-G1	5734	72.6	B3-U2-G1
64-G2-C-x-W3	64	350	68	4931	72.5	B1-U3-G1	4942	72.7	B1-U2-G1	5027	73.9	B1-U2-G1	4927	72.5	B1-U2-G1	5137	75.5	B3-U2-G1
64-G2-C-x-W5	64	530	103	7073	68.9	B1-U3-G1	7088	69.1	B1-U3-G2	7210	70.2	B2-U3-G2	7067	68.8	B1-U3-G2	7368	71.8	B3-U3-G2
Frosted Panel VX8911 3000K																		
32-G2-F-x-W3	32	350	38	2191	57.7	B1-U3-G2	2165	57.0	B1-U3-G2	2296	60.4	B1-U3-G2	2216	58.3	B1-U3-G2	2371	62.4	B1-U3-G2
32-G2-F-x-W5	32	530	53	3143	59.3	B1-U3-G2	3105	58.6	B1-U3-G2	3293	62.1	B1-U3-G3	3179	60.0	B1-U3-G3	3401	64.2	B2-U3-G2
32-G2-F-x-W7	32	700	71	3964	55.8	B1-U3-G3	3917	55.2	B1-U3-G3	4154	58.5	B1-U3-G3	4009	56.5	B1-U3-G3	4289	60.4	B2-U3-G3
48-G2-F-x-W3	48	350	51	3287	64.5	B1-U3-G2	3248	63.7	B1-U3-G2	3444	67.5	B1-U3-G3	3324	65.2	B1-U3-G3	3557	69.7	B2-U3-G2
48-G2-F-x-W5	48	530	79	4714	59.7	B1-U3-G3	4658	59.0	B1-U3-G3	4940	62.5	B1-U3-G3	4768	60.4	B1-U3-G3	5101	64.6	B2-U3-G3
64-G2-F-x-W3	64	350	68	4392	64.6	B1-U3-G3	4343	63.9	B1-U3-G3	4501	66.2	B1-U3-G3	4401	64.7	B1-U3-G3	4687	68.9	B2-U3-G3
64-G2-F-x-W5	64	530	103	6300	61.4	B2-U3-G3	6230	60.7	B2-U3-G3	6456	62.9	B2-U3-G3	6312	61.5	B1-U3-G3	6723	65.5	B3-U3-G3

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com.

Note: Some data may be scaled based on tests of similar. But not identical luminaires.

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LED Wattage and Lumen Values for 4000K fixtures

Ordering Code: (4000K)	Total LEDs	System current (mA)	Average System Watts¹ (W)	Type 2			Type 3			Type 3W			Type 4			Type 5		
				Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating
Clear Panel VX8911 4000K																		
32-G2-C-x-N3	32	350	38	2836	74.6	B1-U2-G1	2781	73.2	B1-U2-G1	2932	77.2	B1-U2-G1	2832	74.5	B1-U2-G1	3025	79.6	B2-U2-G1
32-G2-C-x-N5	32	530	53	4068	76.8	B1-U2-G1	3988	75.2	B1-U2-G1	4205	79.3	B1-U2-G1	4062	76.6	B1-U2-G1	4338	81.8	B3-U2-G1
32-G2-C-x-N7	32	700	71	5131	72.3	B1-U3-G1	5030	70.8	B1-U3-G1	5303	74.7	B1-U2-G2	5123	72.2	B1-U2-G1	5472	77.1	B3-U3-G1
48-G2-C-x-N3	48	350	51	4254	83.4	B1-U2-G1	4171	81.8	B1-U2-G1	4397	86.2	B1-U2-G1	4247	83.3	B1-U2-G1	4537	89.0	B3-U2-G1
48-G2-C-x-N5	48	530	79	6102	77.2	B1-U3-G1	5983	75.7	B1-U3-G1	6307	79.8	B1-U2-G2	6092	77.1	B1-U3-G2	6508	82.4	B3-U2-G2
64-G2-C-x-N3	64	350	68	5596	82.3	B1-U3-G1	5608	82.5	B1-U3-G1	5705	83.9	B1-U2-G2	5592	82.2	B1-U3-G1	5830	85.7	B3-U2-G1
64-G2-C-x-N5	64	530	103	8027	78.2	B2-U3-G2	8044	78.4	B2-U3-G2	8183	79.7	B2-U3-G2	8021	78.1	B2-U3-G2	8362	81.5	B3-U3-G2
Frosted Panel VX8911 4000K																		
32-G2-F-x-N3	32	350	38	2487	65.4	B1-U3-G2	2457	64.7	B1-U3-G2	2606	68.6	B1-U3-G2	2515	66.2	B1-U3-G2	2691	70.8	B1-U3-G2
32-G2-F-x-N5	32	530	53	3567	67.3	B1-U3-G2	3524	66.5	B1-U3-G2	3738	70.5	B1-U3-G3	3607	68.1	B1-U3-G3	3860	72.8	B2-U3-G2
32-G2-F-x-N7	32	700	71	4498	63.4	B1-U3-G3	4445	62.6	B1-U3-G3	4714	66.4	B2-U3-G3	4550	64.1	B1-U3-G3	4868	68.6	B2-U3-G3
48-G2-F-x-N3	48	350	51	3730	73.1	B1-U3-G2	3686	72.3	B1-U3-G3	3909	76.6	B1-U3-G3	3772	74.0	B1-U3-G3	4036	79.1	B2-U3-G3
48-G2-F-x-N5	48	530	79	5350	67.7	B1-U3-G3	5287	66.9	B1-U3-G3	5607	71.0	B1-U3-G3	5411	68.5	B1-U3-G3	5790	73.3	B2-U3-G3
64-G2-F-x-N3	64	350	68	4985	73.3	B1-U3-G3	4929	72.5	B1-U3-G3	5108	75.1	B1-U3-G3	4994	73.4	B1-U3-G3	5319	78.2	B2-U3-G3
64-G2-F-x-N5	64	530	103	7150	69.7	B2-U3-G3	7071	68.9	B2-U3-G3	7327	71.4	B2-U3-G4	7164	69.8	B2-U3-G3	7630	74.3	B3-U3-G3

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com.

Note: Some data may be scaled based on tests of similar. But not identical luminaires.

Specifications

Housing

Roof: Hinged roof with stainless steel thumb screw. 356HM low-copper cast.

Panels: Two panel options. Clear panels are made of an U.V Stabilized sheet material. Frosted Panels are U.V. Stabilized sheet material. All panels are attached with a clip and can easily be removed for cleaning.

Fitter: Slip Fitter Dimensions: 3" I.D. x 3" deep. Hinged door to access photocontrol components.

Light Engine

LEDgine is composed of five main components: Heat Sink, Lens, LED lamp, Optical System, and Driver. Electrical components are RoHS compliant.

LED Module

Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin - Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K) or Warm White, 3000 Kelvin nominal (3045K +/- 175K or 2870K to 3220K), CRI 70 Min. 75 Typical.

Heat Sink

Made of cast aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Optical System

Type 2, 3, 3W, 4 and Type 5 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 standard with 0-10V dimming capability. High power factor of 95%. Electronic driver, operating range 50/60 Hz. 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 (4°C) to 130°F (55°C). Certified in compliance to UL1310 cULus requirement (dry and damp location). Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221°F (105°C). 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. Standard built in driver surge protection of 2.5kV (min).

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Specifications (continued)

Driver Options

AST: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.

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.

OTL: Pre-set driver to signal end of life of the LED module(s) for better fixture management.

Dimming Options

DA: 4 Hrs 25% reduction **DF:** 6 Hrs 75% reduction

DB: 4 Hrs 50% reduction **DG:** 8 Hrs 25% reduction

DC: 4 Hrs 75% reduction **DH:** 8 Hrs 50% reduction

DD: 6 Hrs 25% reduction **DJ:** 8 Hrs 75% reduction

DE: 6 Hrs 50% reduction

Surge Protection

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 roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA. Option for SP2 20kV/20kA.

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, using LM-80 data from LED manufacturers and engineering prediction methods, the luminaire useful life is expected to reach 100,000+ hours with >L70 lumen maintenance @ 25°C (48 LED and 64LED at 530mA is 68,000). Luminaire useful life accounts for LED lumen maintenance and additional factors, including LED life, driver life, PCB substrate, solder joints on/off cycles and burning hours for nominal applications.

Hardware

All non-ferrous fasteners prevent corrosion and ensure longer life.

Wiring

18 AWG wire, 6" (152mm) minimum exceeding from luminaire.

Options



S
Spikes



HS
House side shield

SP2
20kV/20kA integral surge protector (optional)

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils / 24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

LED products manufacturing standard

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

The manufacturer must provide a written confirmation of its ISO 9001 2008 and ISO 14001 2004 International Quality Standards Certification.

Meets the ANSI C136.31 2010, American national Standard for Roadway Luminaire Vibration specifications for Normal Applications.

Certifications and Compliance

cETL listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. 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 List (QPL).

IP Rating

The LED optics chamber is IP66 rated.

Warranty

5 year extended warranty.

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	up to 700 mA	>100,000	>60,000	90%

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. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

