

HADCO

by @signify

Landscape

Post top

UX1 LED Post top



The Hadco LED post top UX1 luminaire offers a simple modern take on the traditional lantern, providing style and elegance to downtown areas, commercial developments, parks and residential communities.

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

Ordering guide

example: UX148G2CA12NAENNNNSPIN

Series	LED count	Gen.	Lens	Finish	Fastener	Optics	Color Temp	Voltage	Drive Current (mA)	Photo Control	Integral Control Options ²	Options			Surge Protection	House Side Shield
												No. 1 ²	No. 2 ²	No. 3 ²		
UX1		G2														
UX1	32 ^{1,3} 32 LEDs 48 48 LEDs 64 64 LEDs	G2 Gen 2	C Clear Flat Glass F Frosted Flat Glass	A Black B White G Verde H Bronze J Green I Gray	1 Hex Head 2 Allen Head	2 Type 2 3 Type 3 3W Type 3 Wide 4 Type 4 5 Type 5	N Neutral 4000K W Warm 3000K	A 120-277 B ^{2,3} 347-480	3 350 5 530 7 700 1' 1050	E 120 VAC Button Eye H 208/240/277 VAC Button Eye R 3 Pin Twist Lock Receptacle R7 7 Pin Receptacle in cage N None	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 SRD Sensor ready driver (standard configuration) SRD1 Sensor ready driver (alternate configuration) N None	AST Adj. Start Up Time N None	CLO Constant Light Output N None	OTL Over The Life N None	SP1 10kV/10kA SP2 20kV/20kA	H House Side Shield N None

1. Only available with 32 LED and A voltage.

2. Configurations with 347-480VAC (B) voltage are not compatible with optional dimming or optional programming.

3. Configurations with 32 (32) LEDs at 350mA (3), 530mA (5) and 1050mA (1) currents are not compatible with 347-480 VAC (B) voltage.

UX1 Post top

LED Post top

LED Wattage and Lumen Values: for UX1 with Clear Lens

Ordering Codes	Total LEDs	LED current (mA)	Average System Wattage ¹ (W)	Type 2			Type 3			Type 3w			Type 4			Type 5		
				Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)
Clear Lens (3000K)																		
32-G2-C-x-W3	32	350	36	2875	B1-U0-G1	80	2698	B1-U0-G1	75	2631	B1-U0-G1	73	2675	B1-U0-G1	75	2631	B2-U0-G1	73
32-G2-C-x-W5	32	530	53	4123	B1-U0-G1	78	3870	B1-U0-G1	73	3774	B1-U0-G1	72	3838	B1-U0-G1	73	3773	B3-U0-G1	72
32-G2-C-x-W7	32	700	71	5200	B1-U0-G1	74	4881	B1-U0-G1	69	4760	B1-U0-G1	67	4840	B1-U0-G1	69	4759	B3-U0-G1	67
32-G2-C-x-W1	32	1050	108	7171	B1-U0-G1	66	6730	B1-U0-G2	62	6563	B1-U0-G2	61	6674	B1-U0-G2	62	6562	B3-U0-G2	61
48-G2-C-x-W3	48	350	52	4312	B1-U0-G1	83	4047	B1-U0-G1	78	3947	B1-U0-G1	76	4013	B1-U0-G1	77	3946	B3-U0-G1	76
48-G2-C-x-W5	48	530	79	6185	B1-U0-G1	78	5805	B1-U0-G1	73	5661	B1-U0-G2	72	5756	B1-U0-G2	73	5660	B3-U0-G1	72
48-G2-C-x-W7	48	700	106	7801	B2-U0-G1	74	7321	B1-U0-G2	69	7139	B1-U0-G2	67	7260	B1-U0-G2	69	7138	B3-U0-G2	67
64-G2-C-x-W3	64	350	68	5479	B1-U0-G1	80	5317	B1-U0-G1	78	5350	B1-U0-G2	79	5343	B1-U0-G2	78	5449	B3-U0-G1	80
64-G2-C-x-W5	64	530	105	7859	B2-U0-G1	75	7626	B1-U0-G2	72	7674	B1-U0-G2	73	7664	B1-U0-G2	73	7816	B3-U0-G2	74
64-G2-C-x-W7	64	700	138	9912	B2-U0-G2	72	9618	B2-U0-G2	70	9678	B2-U0-G2	70	9665	B2-U0-G2	70	9857	B4-U0-G2	72
Clear Lens (4000K)																		
32-G2-C-x-N3	32	350	36	3230	B1-U0-G1	90	3032	B1-U0-G1	84	2956	B1-U0-G1	82	3006	B1-U0-G1	84	2956	B2-U0-G1	82
32-G2-C-x-N5	32	530	53	4633	B1-U0-G1	88	4348	B1-U0-G1	83	4240	B1-U0-G1	80	4312	B1-U0-G1	82	4240	B3-U0-G1	80
32-G2-C-x-N7	32	700	71	5843	B1-U0-G1	83	5484	B1-U0-G1	78	5348	B1-U0-G2	76	5438	B1-U0-G2	77	5347	B3-U0-G1	76
32-G2-C-x-N1	32	1050	108	8057	B2-U0-G1	75	7562	B1-U0-G2	70	7374	B1-U0-G2	68	7499	B1-U0-G2	69	7373	B3-U0-G2	68
48-G2-C-x-N3	48	350	52	4845	B1-U0-G1	93	4547	B1-U0-G1	87	4434	B1-U0-G1	85	4509	B1-U0-G1	87	4434	B3-U0-G1	85
48-G2-C-x-N5	48	530	79	6950	B1-U0-G1	88	6523	B1-U0-G2	83	6360	B1-U0-G2	81	6468	B1-U0-G2	82	6359	B3-U0-G2	80
48-G2-C-x-N7	48	700	106	8765	B2-U0-G2	83	8226	B1-U0-G2	78	8022	B1-U0-G2	76	8157	B1-U0-G2	77	8020	B3-U0-G2	76
64-G2-C-x-N3	64	350	68	6157	B1-U0-G1	90	5974	B1-U0-G1	88	6011	B1-U0-G2	88	6003	B1-U0-G2	88	6122	B3-U0-G1	90
64-G2-C-x-N5	64	530	105	8831	B2-U0-G1	84	8569	B2-U0-G2	81	8622	B2-U0-G2	82	8611	B1-U0-G2	82	8782	B3-U0-G2	83
64-G2-C-x-N7	64	700	138	11137	B2-U0-G2	81	10807	B2-U0-G2	78	10874	B2-U0-G2	79	10860	B2-U0-G2	79	11075	B4-U0-G2	80

LED Wattage and Lumen Values: for UX1 with Frosted lens

Ordering Codes	Total LEDs	LED current (mA)	Average System Wattage ¹ (W)	Type 2			Type 3			Type 3w			Type 4			Type 5		
				Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)	Lumen Output ²	BUG Rating	Effic. (LPW)
Frosted lens (3000K)																		
32-G2-F-x-W3	32	350	36	2279	B1-U0-G1	63	2221	B1-U0-G1	62	2119	B1-U0-G1	59	2166	B1-U0-G1	60	2002	B1-U0-G1	56
32-G2-F-x-W5	32	530	53	3268	B1-U0-G1	62	3185	B1-U0-G1	60	3039	B1-U0-G1	58	3107	B1-U0-G1	59	2871	B1-U0-G1	54
32-G2-F-x-W7	32	700	71	4122	B1-U0-G1	58	4017	B1-U0-G1	57	3833	B1-U0-G1	54	3919	B1-U0-G1	56	3621	B1-U0-G1	51
32-G2-F-x-W1	32	1050	108	5684	B2-U0-G1	53	5540	B2-U0-G1	51	5285	B2-U0-G1	49	5404	B2-U0-G1	50	4994	B2-U0-G1	46
48-G2-F-x-W3	48	350	52	3418	B1-U0-G1	66	3331	B1-U0-G1	64	3178	B1-U0-G1	61	3249	B1-U0-G1	62	3003	B1-U0-G1	58
48-G2-F-x-W5	48	530	79	4903	B1-U0-G1	62	4778	B1-U0-G1	60	4558	B1-U0-G1	58	4661	B1-U0-G1	59	4307	B2-U0-G1	55
48-G2-F-x-W7	48	700	106	6183	B2-U0-G1	58	6026	B2-U0-G1	57	5749	B2-U0-G1	54	5878	B2-U0-G1	56	5432	B2-U0-G1	51
64-G2-F-x-W3	64	350	68	4677	B1-U0-G1	69	4583	B1-U0-G1	67	4490	B1-U0-G1	66	4515	B1-U0-G1	66	4317	B2-U0-G1	63
64-G2-F-x-W5	64	530	105	6708	B2-U0-G1	64	6573	B2-U0-G1	62	6440	B2-U0-G1	61	6476	B2-U0-G1	61	6192	B2-U0-G1	59
64-G2-F-x-W7	64	700	138	8461	B2-U0-G2	61	8290	B2-U0-G2	60	8122	B2-U0-G2	59	8167	B2-U0-G2	59	7810	B3-U0-G1	57
Frosted lens (4000K)																		
32-G2-F-x-N3	32	350	36	2560	B1-U0-G1	71	2495	B1-U0-G1	69	2380	B1-U0-G1	66	2434	B1-U0-G1	68	2249	B1-U0-G1	63
32-G2-F-x-N5	32	530	53	3672	B1-U0-G1	70	3579	B1-U0-G1	68	3414	B1-U0-G1	65	3491	B1-U0-G1	66	3226	B1-U0-G1	61
32-G2-F-x-N7	32	700	71	4631	B1-U0-G1	66	4514	B1-U0-G1	64	4306	B1-U0-G1	61	4403	B1-U0-G1	62	4069	B2-U0-G1	58
32-G2-F-x-N1	32	1050	108	6387	B2-U0-G1	59	6224	B2-U0-G1	58	5938	B2-U0-G1	55	6071	B2-U0-G1	56	5611	B2-U0-G1	52
48-G2-F-x-N3	48	350	52	3840	B1-U0-G1	74	3743	B1-U0-G1	72	3571	B1-U0-G1	69	3651	B1-U0-G1	70	3374	B1-U0-G1	65
48-G2-F-x-N5	48	530	79	5508	B2-U0-G1	70	5369	B2-U0-G1	68	5122	B2-U0-G1	65	5237	B2-U0-G1	66	4839	B2-U0-G1	61
48-G2-F-x-N7	48	700	106	6947	B2-U0-G2	66	6771	B2-U0-G1	64	6459	B2-U0-G2	61	6605	B2-U0-G1	62	6103	B2-U0-G1	58
64-G2-F-x-N3	64	350	68	5255	B2-U0-G1	77	5149	B1-U0-G1	76	5045	B2-U0-G1	74	5073	B1-U0-G1	74	4851	B2-U0-G1	71
64-G2-F-x-N5	64	530	105	7538	B2-U0-G2	72	7386	B2-U0-G2	70	7236	B2-U0-G2	69	7276	B2-U0-G2	69	6958	B2-U0-G1	66
64-G2-F-x-N7	64	700	138	9506	B2-U0-G2	69	9315	B2-U0-G2	68	9126	B2-U0-G2	66	9177	B2-U0-G2	67	8775	B3-U0-G2	64

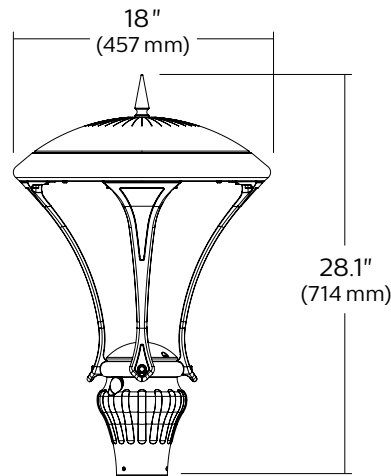
Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at outdoorlighting.applications@philips.com.

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

UX1 Post top

LED Post top

Dimensions



UX1

EPA: .45 sq ft
Weight: 25 lbs (11.3 kg)

Specifications

Housing

Containing no mercury or other hazardous chemicals, the UX1 is fully recyclable. The housing is constructed of low copper die-cast aluminum and a tool less decorative finial holds down the spun aluminum roof. Concealed aluminum wire way inside of the cage leg is protected from water with a high temperature silicone rubber grommet.

Roof: designed to allow natural run off of water, dirt and debris. Stainless steel screen keeps large insects out and allows for natural water run off.

Fitter/Pod: Two captive screws hold down the pod cover. Option for hex head or set screws in the pod. The pod accepts a 3" pole. The OD of pod is 3.5". Concealed aluminum wire way inside of the cage leg is protected from water with a high temperature silicone rubber grommet.

Light Engine

LEDgine composed of 5 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.

Lens Options

Option available for clear or frosted tempered flat glass lens (**C** = Clear or **F** = Frosted).

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. Certified in compliance to UL1012 cULus requirement (dry and damp location). Assembled on a removable cast plate 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).

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.

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

SRD: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle. **SRD1:** Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock.

Dimming Options

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 Pre-set driver compatible with the DALI logarithmic control system

* Contact factory for DALI options.

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.

UX1 Post top

LED Post top

Specifications (continued)

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. 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



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.

Vibration Resistance

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.

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	>92%
25°C	1050 mA	>100,000	>60,000	>89%

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.



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