



Hadco's New Oxford LED luminaire, featuring cutoff optics, offers ideal performance for street lighting in residential and historic urban settings. Blending this style with Philips Hadco's modular post top concept creates the flexibility for you to build your own look into the fixture.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

example: **VX022-48-G3-A-2-N-730-A-3-N-SP1**

Series	LED count	Gen.	Finish	Optics	Photo Control	Color Temp	Voltage	Drive Current (mA)	Integral Control Options ²	Surge Protection
VX022		G3								
VX022 New Oxford	32 ^{1,3} 32 LEDs 48 48 LEDs 64 64 LEDs	G3 Gen3	A Black B White G Verde H Bronze J Green	2 Type 2 2H Type 2 w/HSS 3 Type 3 3H Type 3 w/HSS 3W Type 3 Wide 3W Type 3 Wide w/HSS 4 Type 4 5 Type 5	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	730 Warm 3000K 740 Neutral 4000K	A 120-277 B ^{2,3} 347-480	3 350 5 530 7 700 1' 1050	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 (alternative configuration) N None	SP1 10kV/10kA SP2 20kV/20kA

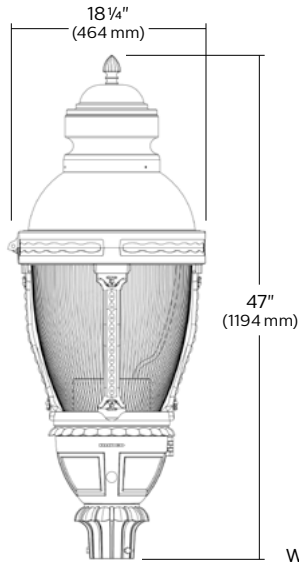
1. Only available with 32 LED and A voltage.
 2. Configurations with 347-480VAC (B) voltage are not compatible with optional dimming or optional programming.
 3. Configurations with 32 (32) LEDs at 350mA (3), 530mA (5) and 1050mA (1) currents are not compatible with 347-480 VAC (B) voltage.



VX022 New Oxford

Post top

Dimensions



VX022

EPA: 2.55 sq ft
Weight: 41 lbs (18.6 kg)

LED Wattage and Lumen Values: for VX022

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)
Globe (3000K)																		
32-G3-x-730-3	32	350	36	3796	B1-U3-G1	106	3725	B1-U3-G1	104	3810	B1-U3-G1	106	3711	B1-U3-G1	103	3678	B2-U3-G1	102
32-G3-x-730-5	32	530	55	5444	B1-U3-G1	99	5343	B1-U3-G1	97	5465	B1-U3-G1	99	5324	B1-U3-G1	96	5275	B3-U3-G1	96
32-G3-x-730-7	32	700	73	6908	B2-U3-G2	95	6780	B1-U3-G1	93	6934	B2-U3-G2	96	6755	B2-U3-G2	93	6694	B3-U3-G1	92
32-G3-x-730-1	32	1050	108	9469	B2-U3-G2	88	9292	B2-U3-G2	86	9504	B2-U3-G2	88	9257	B2-U3-G2	86	9174	B3-U3-G2	85
48-G3-x-730-3	48	350	52	5623	B1-U3-G1	108	5517	B1-U3-G1	106	5643	B1-U3-G2	109	5496	B1-U3-G1	106	5447	B3-U3-G1	105
48-G3-x-730-5	48	530	82	8063	B2-U3-G2	99	7912	B2-U3-G2	97	8093	B2-U3-G2	99	7882	B2-U3-G2	97	7812	B3-U3-G2	96
48-G3-x-730-7	48	700	106	10301	B2-U3-G2	97	10108	B2-U3-G2	95	10339	B2-U3-G2	98	10070	B2-U3-G2	95	9979	B4-U3-G2	94
64-G3-x-730-3	64	350	68	7362	B2-U3-G2	108	7160	B2-U3-G2	105	7635	B2-U3-G2	112	7340	B2-U3-G2	108	7340	B3-U3-G2	108
64-G3-x-730-5	64	530	86	10561	B2-U3-G2	123	10271	B2-U3-G2	120	10953	B2-U3-G2	128	10529	B2-U3-G2	123	10529	B4-U3-G2	123
64-G3-x-730-7	64	700	111	13392	B2-U4-G2	121	13025	B2-U4-G2	117	13889	B3-U3-G3	125	13351	B3-U3-G3	120	13352	B4-U3-G2	120
Globe (4000K)																		
32-G3-x-740-3	32	350	36	4061	B1-U3-G1	113	3986	B1-U3-G1	111	4077	B1-U3-G1	114	3972	B1-U3-G1	111	3935	B3-U3-G1	110
32-G3-x-740-5	32	530	53	5827	B1-U3-G1	111	5717	B1-U3-G1	108	5847	B2-U3-G2	111	5695	B1-U3-G1	108	5645	B3-U3-G1	107
32-G3-x-740-7	32	700	71	7392	B2-U3-G2	105	7254	B2-U3-G2	103	7420	B2-U3-G2	105	7227	B2-U3-G2	102	7162	B3-U3-G2	101
32-G3-x-740-1	32	1050	108	10132	B2-U3-G2	94	9942	B2-U3-G2	92	10170	B2-U3-G2	94	9906	B2-U3-G2	92	9816	B4-U3-G2	91
48-G3-x-740-3	48	350	52	6015	B1-U3-G1	116	5903	B1-U3-G1	114	6039	B2-U3-G2	116	5881	B1-U3-G1	113	5828	B3-U3-G1	112
48-G3-x-740-5	48	530	79	8627	B2-U3-G2	109	8466	B2-U3-G2	107	8659	B2-U3-G2	110	8434	B2-U3-G2	107	8358	B3-U3-G2	106
48-G3-x-740-7	48	700	106	11021	B2-U3-G2	104	10815	B2-U3-G2	102	11063	B2-U3-G2	104	10776	B2-U3-G2	102	10678	B4-U3-G2	101
64-G3-x-740-3	64	350	68	7877	B2-U3-G2	116	7661	B2-U3-G2	112	8169	B2-U3-G2	120	7853	B2-U3-G2	115	7853	B3-U3-G2	115
64-G3-x-740-5	64	530	105	11300	B2-U3-G2	107	10990	B2-U3-G2	104	11720	B3-U3-G3	111	11266	B2-U3-G2	107	11266	B4-U3-G2	107
64-G3-x-740-7	64	700	140	14329	B3-U4-G3	102	13937	B2-U4-G2	100	14860	B3-U3-G3	106	14286	B3-U4-G3	102	14287	B4-U3-G2	102

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.

VX022 New Oxford

Post top

Specifications

Housing

Roof: Assembled components made of 356HM low-copper cast aluminum alloy and 0.090" thick spun aluminum. Hinged roof with stainless steel thumb screw.

Globe: Narrow body globe is constructed of clear injection-molded vertically ribbed U.V. stabilized acrylic. The bottom section of the globe has a neck opening of 7 3/8" and an outside neck diameter of 8". Globe (less roof) has a 13 3/4"H x 14 3/4"W.

Cage: Assembled components made of 356HM low-copper cast aluminum alloy.

Fitter/Pod: 360 low-copper die-cast aluminum. Tool less access to the wiring compartment. The optional photo control eye is located in the ballast enclosure for easy access via a hinged door. Slip Fitter Dimensions: 3" I.D. x 3" deep.

Fasteners

Used to secure post fitter to post tenon and globe to globe holder. Allen Head bolts feature Black cadmium stainless steel.

Finial

Finial is cast aluminum mounted with a 1/4-20 stainless steel fastener. Standard finial finish will match fixture finish as specified. Finish is thermoset powdercoat.

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 5 are 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. Certified in compliance to UL1012 cULus requirement (dry and damp location). Assembled on a removable twist lock cover 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. SRD: 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.

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.

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.

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 @25C. 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

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

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

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Specifications (continued)

Vibration Resistance

Meets the ANSI C136.31 2001, 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	>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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