



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

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.

Ordering guide

example: **VX022 32 G2 A 2 N W A 3 N N N SP1 N**

Series	LED count	Gen.	Finish	Optics	Photo Control	Color Temp	Voltage	Drive Current (mA)	Integral Control Options ²	Options			Surge Protection	House Side Shield
										No. 1 ²	No. 2 ²	No. 3 ²		
VX022		G2												
VX022 New Oxford	32 ^{1,3} 32 LEDs 48 48 LEDs 64 64 LEDs	G2 Gen2	A Black B White G Verde H Bronze J Green	2 Type 3 3 Type 3 3W Type 3 4 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	3 350 5 530 7 700 1¹ 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 N None	AST Adjustable 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

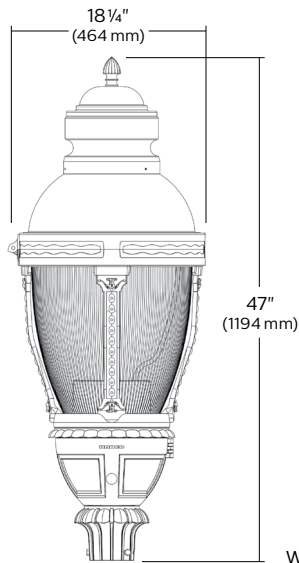
1. Only available with 32 LED and A voltage.
2. Configurations with 347-480VAC (B) voltage are not compatible with optional dimming or optional programming.
3. Configurations with 32 (32) LEDs at 350mA (3), 530mA (5) and 1050mA (1) currents are not compatible with 347-480 VAC (B) voltage.



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)
Clear Lens (3000K)																		
32-G2-x-W3	32	350	36	2920	B1-U3-G1	81	2865.3	B1-U3-G1	80	2931	B1-U3-G1	82	2854.7	B1-U3-G1	80	2828.9	B2-U3-G1	79
32-G2-x-W5	32	530	53	4188	B1-U3-G1	79	4110	B1-U3-G1	78	4204	B1-U3-G1	80	4095	B1-U3-G1	78	4058	B3-U3-G1	77
32-G2-x-W7	32	700	71	5282	B1-U3-G1	75	5183	B1-U3-G1	73	5302	B1-U3-G1	75	5164	B1-U3-G1	73	5118	B3-U3-G1	72
32-G2-x-W1	32	1050	108	7284	B2-U3-G2	67	7148	B2-U3-G2	66	7311	B2-U3-G2	68	7121	B2-U3-G2	66	7057	B3-U3-G2	65
48-G2-x-W3	48	350	52	4380	B1-U3-G1	84	4298	B1-U3-G1	83	4397	B1-U3-G1	85	4282	B1-U3-G1	82	4243	B3-U3-G1	82
48-G2-x-W5	48	530	79	6283	B1-U3-G1	80	6165	B1-U3-G1	78	6306	B2-U3-G2	80	6142	B1-U3-G2	78	6087	B3-U3-G1	77
48-G2-x-W7	48	700	106	7924	B2-U3-G2	75	7775	B2-U3-G2	73	7953	B2-U3-G2	75	7746	B2-U3-G2	73	7676	B3-U3-G2	72
64-G2-x-W3	64	350	68	5694	B1-U3-G1	84	5538	B1-U3-G1	81	5906	B2-U3-G2	87	5677	B1-U3-G1	83	5677	B3-U3-G1	83
64-G2-x-W5	64	530	105	8168	B2-U3-G2	77	7944	B2-U3-G2	75	8471	B2-U3-G2	80	8143	B2-U3-G2	77	8144	B3-U3-G2	77
64-G2-x-W7	64	700	140	10301	B2-U3-G2	74	10019	B2-U3-G2	72	10684	B2-U3-G2	76	10270	B2-U3-G2	73	10271	B4-U3-G2	73
Clear Lens (4000K)																		
32-G2-x-N3	32	350	36	3281	B1-U3-G1	91	3219	B1-U3-G1	90	3293	B1-U3-G1	92	3208	B1-U3-G1	89	3179	B2-U3-G1	89
32-G2-x-N5	32	530	53	4706	B1-U3-G1	89	4618	B1-U3-G1	88	4724	B1-U3-G1	90	4601	B1-U3-G1	87	4559	B3-U3-G1	87
32-G2-x-N7	32	700	71	5935	B1-U3-G1	84	5824	B1-U3-G1	82	5958	B2-U3-G2	84	5802	B1-U3-G1	82	5750	B3-U3-G1	81
32-G2-x-N1	32	1050	108	8184	B2-U3-G2	76	8031	B2-U3-G2	74	8215	B2-U3-G2	76	8001	B2-U3-G2	74	7929	B3-U3-G2	73
48-G2-x-N3	48	350	52	4921	B1-U3-G1	95	4829	B1-U3-G1	93	4940	B1-U3-G1	95	4811	B1-U3-G1	93	4768	B3-U3-G1	92
48-G2-x-N5	48	530	79	7059	B2-U3-G2	89	6927	B2-U3-G2	88	7086	B2-U3-G2	90	6901	B2-U3-G2	87	6839	B3-U3-G2	87
48-G2-x-N7	48	700	106	8903	B2-U3-G2	84	8736	B2-U3-G2	82	8936	B2-U3-G2	84	8704	B2-U3-G2	82	8625	B3-U3-G2	81
64-G2-x-N3	64	350	68	6398	B1-U3-G1	94	6223	B1-U3-G1	91	6636	B2-U3-G2	97	6379	B1-U3-G2	94	6379	B3-U3-G1	94
64-G2-x-N5	64	530	105	9178	B2-U3-G2	87	8926	B2-U3-G2	85	9518	B2-U3-G2	90	9150	B2-U3-G2	87	9150	B4-U3-G2	87
64-G2-x-N7	64	700	140	11575	B2-U4-G2	83	11258	B2-U3-G2	80	12004	B3-U3-G3	86	11540	B2-U3-G2	82	11540	B4-U3-G2	82

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.

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-II. Published L₇₀ hours limited to 6 times actual LED test hours.

