



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

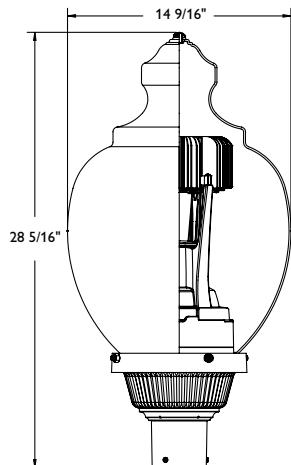
The Hadco Victorian LED post top with EcoSwap is a traditionally styled luminaire with a highly efficient LED light engine inside. This modern engine provides energy efficiency without sacrificing lumens for much needed safety along walkways in cities and neighborhoods. Allows for lower maintenance due to a longer life and fewer internal parts. This makes the VL71 with EcoSwap a fiscally economical choice for communities on a budget.

Ordering guide

Example: VL71-42-G2-A-3-E-W-A-3

Series	LED's	Generation	Finish	Optics	Photo control	CCT	Voltage	Drive current
VL71		G2						
VL71 Victorian small	42 42 LEDs	G2	A Black B White G Verde H Bronze I Gray J Green	3 Type III 5 Type V	E 120 Button eye H 208/240/277 VAC N none	N Neutral (4000K) W Warm (3000K)	A 120-277 VAC	3 333mA 5 500 mA

Dimensions



Width: 14" / 36cm diameter
Height: 28" / 71cm
EPA: 0.87 sq. ft (maximum)
Weight: 18 lbs / 8.16 kg (maximum)



VL71 Victorian

Post top, small

Predicted Lumen Depreciation Data

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

Ambient Temperature °C	Driver mA	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 54,000 hrs
25°C	500 mA	>100,000 hours	>54,000 hours	>98%

LED Wattage and Lumen Values: Victorian VL71

Ordering Code: 3000K	Total LEDs	LED current (mA)	Average System Wattage (W)	Type 3			Type 5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
VL71-42-G2-x-W-3-N	42	333	49	5,234	106	B1-U3-G2	5,214	106	B3-U3-G1
VL71-42-G2-x-W-5-N	42	500	70	6,980	100	B2-U3-G2	6,791	97	B3-U3-G2

Ordering Code: 4000K	Total LEDs	LED current (mA)	Average System Wattage (W)	Type 3			Type 5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
VL71-42-G2-x-N-3-N	42	333	49	5561	113	B2-U3-G2	5964	121	B3-U3-G3
VL71-42-G2-x-N-5-N	42	500	70	7416	106	B1-U3-G2	7769	112	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

360 low-copper die-cast aluminum alloy. Fitter: Slip Fitter Dimensions: 3" I.D. x 3" deep.

LED Engine

Composed of 42 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 extruded aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device)

Optical System

Type 3 and Type 5. Composed of high-performance acrylic lenses to achieve optimized distribution and get maximum spacing. Target lumens will create a perfect lighting uniformity. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance.

Driver

High power factor of 90%. Electronic driver, operating range 50/60 Hz. Auto-adjusting to a voltage between 120 and 277 volt AC rated for both application line to line or line to neutral, Class II, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees

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.

VL71 Victorian

Post top, small

Specification (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

House side shield included for optional field installation.

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).

Warranty

5 year extended warranty.

