



VCC06

VCC10

SleekVision outdoor urban light column feature ClearGuide, a revolutionary, vertically-oriented light engine designed to reduce pixelation and glare.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

example: VCC06-29L200NW-G1-AC-C-3-UNV-DMG-8-SP2-PH8-BE2TX

Luminaire	LED Module	Board Gen	Globe Material	Globe Finish	Optical System	Driver	Driver Options	Column Height (ft)	Luminaire Options	Luminaire Accessories <sup>5</sup>	Finish
<input type="text"/>	<input type="text"/>	<input type="text" value="G1"/>	<input type="text" value="AC"/>	<input type="text" value="C"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
VCC06 <sup>1</sup> 6in dia Light Column	Type 3, 29 LEDs 29L200NW 29L200WW 29L350NW	G1 Gen 1	AC Acrylic Globe	C Clear	3 Type III	UNV 120-277	DALI <sup>2</sup> Digitally Addressable Lighting Interface	8 9 10 11	HS <sup>3</sup> House Side Shield	PH8 Photocell UNV (120-277)	Textured
VCC10 <sup>1</sup> 10in dia Light Column	29L350WW 29L530NW 29L530WW 29L600NW 29L600WW 29L700NW 29L700WW 29L1050NW 29L1050WW  Type 5, 30 LEDs 30L200NW 30L200WW 30L350NW 30L350WW 30L530NW 30L530WW 30L600NW 30L600WW 30L700NW 30L700WW 30L1050NW 30L1050WW				5 Type V	HVU 347-480	SRD <sup>4</sup> Sensor ready driver, standard configuration  SRD1 <sup>4</sup> Sensor ready driver, alternate configuration  <u>Economy Profile</u> DE25 <sup>2</sup> DE50 <sup>2</sup> DE75 <sup>2</sup>  <u>Median Profile</u> DM25 <sup>2</sup> DM50 <sup>2</sup> DM75 <sup>2</sup>  <u>Safety Profile</u> DS25 <sup>2</sup> DS50 <sup>2</sup> DS75 <sup>2</sup>  DMG 0-10 Volt	12 13 14 15 16 17 18 19 20	SP2 Surge Protection, 20KV 20KA 120-277  TLRD5 <sup>4</sup> Dimming Receptacle (5 Pin)  TLRD7 <sup>4</sup> Dimming Receptacle (7 Pin)	PH8/347 Photocell UNV (347)  PH8/480 Photocell UNV (480)  PH9 Shorting cap  PHXL Extended Life	BE2TX Midnight Blue BE6TX Ocean Blue BE8TX Royal Blue BG2TX Sandstone BKTX Black BRTX Bronze GN4TX Blue Green GN6TX Forest Green GN8TX Dark Forest Green GNTX Green GY3TX Medium Grey RD2TX Burgundy RD4TX Scarlet WHTX White  Non-Textured GR Gray Sandtex NP Natural Aluminum TG Hammertone Gold

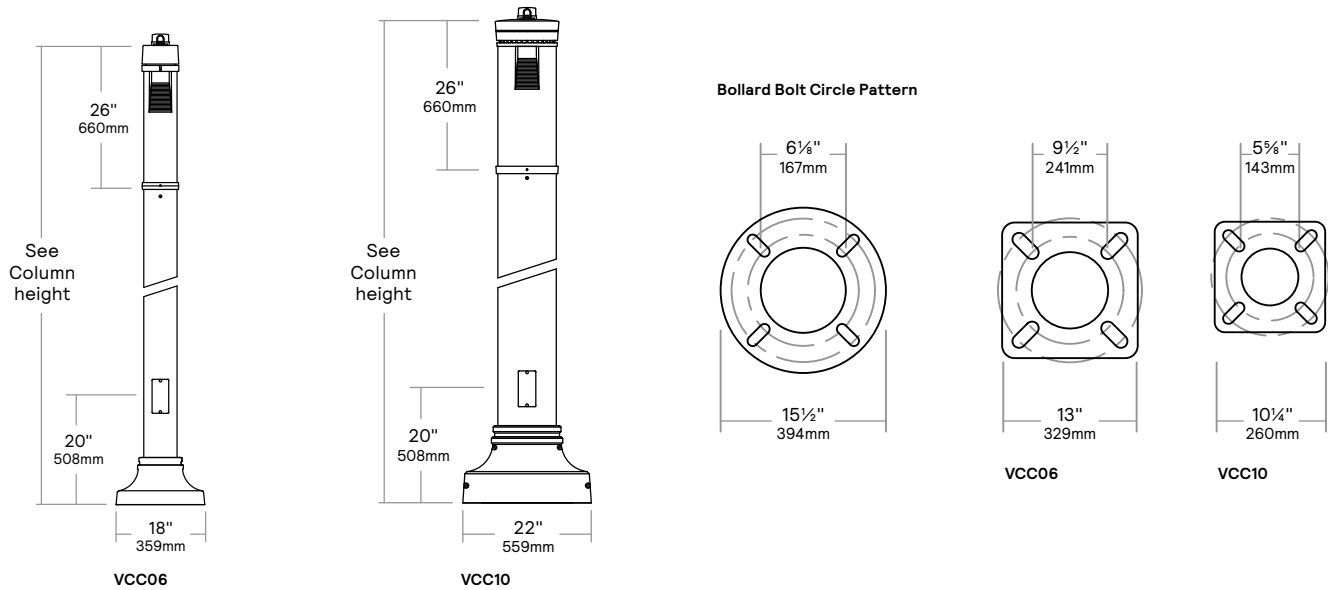
- Luminaire always shipped with a dimmable 0-10V driver
- 347-480V not available
- HS only available with Type 3. Factory installed only.
- Use of photoelectric cell or shorting cap is required to ensure proper illumination.
- Luminaire option TLRD5 or TLRD7 is required with these accessories.



# VCC SleekVision LED Light Column

## Urban Luminaire

### Dimensions



### LED light engine technical information for SleekVision Light Column (VCC)

LED Module	Total LEDs	System Current (mA)	Color Temp (K)	Average System Watts (W)	LEV3			LEV5		
					Delivered Lumens (lm)	Efficacy (LPW)	BUG rating	Delivered Lumens (lm)	Efficacy (LPW)	BUG rating
VCC06-29L200NW-G1-x	29	200	4000	21	2723	133	B1-U3-G2	-	-	-
VCC06-29L200WW-G1-x	29	200	3000	21	2569	125	B1-U3-G2	-	-	-
VCC06-29L350NW-G1-x	29	350	4000	34	4331	128	B1-U3-G2	-	-	-
VCC06-29L350WW-G1-x	29	350	3000	34	4086	121	B1-U3-G2	-	-	-
VCC06-29L530NW-G1-x	29	530	4000	50	6222	125	B1-U3-G3	-	-	-
VCC06-29L530WW-G1-x	29	530	3000	50	5870	118	B1-U3-G3	-	-	-
VCC06-29L600NW-G1-x	29	600	4000	55	7253	132	B2-U3-G3	-	-	-
VCC06-29L600WW-G1-x	29	600	3000	55	6842	124	B2-U3-G3	-	-	-
VCC06-30L200NW-G1-x	30	200	4000	21	-	-	-	3133	153	B2-U3-G1
VCC06-30L200WW-G1-x	30	200	3000	21	-	-	-	2956	144	B2-U3-G1
VCC06-30L350NW-G1-x	30	350	4000	34	-	-	-	4983	147	B2-U3-G2
VCC06-30L350WW-G1-x	30	350	3000	34	-	-	-	4701	139	B2-U3-G2
VCC06-30L530NW-G1-x	30	530	4000	50	-	-	-	7159	143	B3-U3-G2
VCC06-30L530WW-G1-x	30	530	3000	50	-	-	-	6754	135	B3-U3-G2
VCC06-30L600NW-G1-x	29	600	4000	55	-	-	-	7957	145	B3-U3-G3
VCC06-30L600WW-G1-x	29	600	3000	55	-	-	-	7507	136	B3-U3-G2

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					Delivered Lumens (lm)	Efficacy (LPW)	BUG rating	Delivered Lumens (lm)	Efficacy (LPW)	BUG rating
VCC10-29L1050NW-G1-x	29	1050	4000	97	11895	122	B3-U4-G5	—	—	—
VCC10-29L1050WW-G1-x	29	1050	3000	97	11222	115	B2-U4-G4	—	—	—
VCC10-29L200NW-G1-x	29	200	4000	19	2802	149	B1-U3-G2	—	—	—
VCC10-29L200WW-G1-x	29	200	3000	19	2643	140	B1-U3-G2	—	—	—
VCC10-29L350NW-G1-x	29	350	4000	34	4685	137	B1-U3-G3	—	—	—
VCC10-29L350WW-G1-x	29	350	3000	34	4420	129	B1-U3-G3	—	—	—
VCC10-29L530NW-G1-x	29	530	4000	49	6692	136	B2-U3-G3	—	—	—
VCC10-29L530WW-G1-x	29	530	3000	49	6313	128	B2-U3-G3	—	—	—
VCC10-29L700NW-G1-x	29	700	4000	63	8430	134	B2-U4-G4	—	—	—
VCC10-29L700WW-G1-x	29	700	3000	63	7953	126	B2-U4-G4	—	—	—
VCC10-30L1050NW-G1-x	30	1050	4000	100	—	—	—	12959	130	B4-U4-G4
VCC10-30L1050WW-G1-x	30	1050	3000	100	—	—	—	12225	123	B3-U4-G3
VCC10-30L200NW-G1-x	30	200	4000	19	—	—	—	3085	158	B2-U3-G2
VCC10-30L200WW-G1-x	30	200	3000	19	—	—	—	2910	149	B2-U3-G2
VCC10-30L350NW-G1-x	30	350	4000	35	—	—	—	5158	146	B3-U3-G2
VCC10-30L350WW-G1-x	30	350	3000	35	—	—	—	4866	137	B2-U3-G2
VCC10-30L530NW-G1-x	30	530	4000	52	—	—	—	7436	144	B3-U3-G3
VCC10-30L530WW-G1-x	30	530	3000	52	—	—	—	7015	136	B3-U3-G3
VCC10-30L700NW-G1-x	30	700	4000	66	—	—	—	9281	140	B3-U3-G3
VCC10-30L700WW-G1-x	30	700	3000	66	—	—	—	8756	132	B3-U3-G3

## Specifications

### Housing

In a round shape, this housing is made of cast aluminum 356, mechanically assembled to the pole.

### Pole Shaft

**VCC06:** Shall be made from a 6" (152mm) round extruded 6061 T6 aluminum tubing base having a 0.125" (3.2mm) wall thickness, welded to both the bottom and top of the anchor plate.

**VCC10:** Shall be made from a 10" (254mm) round extruded 6061 T6 aluminum tubing base having a 0.25" (6.4mm) wall thickness, welded to both the bottom and top of the anchor plate.

### Maintenance Opening

The pole shall have a 2" x 4 1/2" (51mm x 114mm) maintenance opening centered at 20" (508mm) from the bottom of the anchor plate, complete with a weatherproof aluminum cover and a factory assembled copper ground lug.

### Base Cover

Round shaped, two piece cast 356 aluminum base cover mechanically fastened with stainless steel screws.

### Light Engine

ClearGuide technology, use of a light guide to create a clear transparent visual appearance during the day while achieving comfortable uniform light at night. Composed of 4 main components: Heat Sink / LED Module / Optical System / Driver Electrical components are RoHS compliant, LEDs tested by ISO 17025 2005 accredited lab in accordance with IESNA LM 80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM 21. Metal core board ensures greater heat transfer and longer lifespan.

### LED Module

Composed of 29 or 30 high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K), CRI 70 Min. 75 Typical.

### Heat Sink

Made of die cast A360.1 Aluminum alloy optimizing the LEDs efficiency and life. Mechanically assembled to the globe. Product does not use any cooling device with moving parts (only passive cooling device).

### Globe

Made of one-piece seamless injected-molded clear impact resistant (DR) acrylic. The globe is assembled on the fitter.

### Optical System

ClearGuide technology (Type III or Type V), IES type III-V (asymmetrical-symmetrical). Composed of high performance optical grade molded PMMA (polymethyl methacrylate) acrylic light guide with precision rings provides superior optical control to achieve desired distribution optimized to get maximum spacing and target lumens. Use of ClearGuide technology optics for optimal light distribution without direct view of the LED's. This system provides glare control, visual comfort, and facial recognition for safety and creates light designed for vertical uniform illumination of the environment. Performance shall be tested per LM 63, LM 79 and TM 15 (IESNA) certifying its photometric performance. Street side indicated.

Note: HS only available with Type 3. HS option is factory installed only.

# VCC SleekVision LED Light Column

## Urban Luminaire

### Specifications

#### Driver

**UNV:** High power factor >90%. 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 <20%. Maximum ambient operating temperature from 40F (40C) to 130F (55C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with quick disconnect plug. Values based on 120 volt. Driver comes with dimming compatible 0-10 volts.

**HVU:** High power factor >95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD <15%. Maximum ambient operating temperature from 40F (40C) to 130F (55C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with quick disconnect plug. Values based on 347 volt. Driver comes with dimming compatible 0-10 volts.

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)

**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.

#### Driver Options

**DMG:** Dimming compatible 0-10 volts. For applicable warranty, certification and operation guide see Lumec dimmable luminaire specification document for unapproved device installed by other. To get document, click on this link: [Specification document](#) or go on web site on this address: [https://www.signify.com/bdam/signify/en-us/brands/lumec/Lumec-un-approved-control-device-installed-by-others-7\\_d.pdf](https://www.signify.com/bdam/signify/en-us/brands/lumec/Lumec-un-approved-control-device-installed-by-others-7_d.pdf)

#### 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.

SP2 Option: Integral surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure with elevated 20kV/20kA waveforms for LineGround, 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.

#### Fitter

Made of die cast A360.1 Aluminum alloy 0.110 (2.8mm) minimum thickness, the fitter rated IP66 is complete with a door giving easy access to the driver. Comes with an easy self-adjusting system with two 2 set screws 3/8 16 UNC for ease of maintenance and installation. Removal of door not required to install luminaire. Fits on a 4" (102mm) outside diameter by 4" (102mm) long tenon.

#### Wiring

Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

#### Hardware

All exposed screws shall be complete with Ceramic primer seal base-coat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

#### 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. System Reliability Tool, Advance data and Lumileds LM-80/TM-21 data, expected to reach 100,000+ hours with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +35°C / +95°F

#### Finish

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

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.

#### Vibration Resistance

The VLC meets the ANSI C136.31 2001, American National Standard for Roadway Luminaire Vibration specifications for normal applications. (Tested for 1.5G over 100,000 cycles by an independent lab).

#### Certifications and Compliance

cULus Listed for Canada and USA safety standards for wet locations. Manufactured to ISO 9001:2015 standards. UL8750 and UL1598 compliant.

