

# V-Bollard Turtle Safe LED Specifications



Project Name:

Catalog Number:

Type:

The new **V-Bollard LED** Series continues the unique contemporary design inspired by the sleek styling of the V-Collection. Separating the Driver(s) from the individual cast aluminum LED Array engines: optimize the life of the LEDs and the Driver(s); and maximizes the lumen output of the fixture.

The LED light assemblies come in multiples of 16 or 32 LEDs per single fixture; and 32 or 64 LED Arrays in a double fixture configuration.

Six optical distribution patterns are available. 590 nm diode supplied as standard.

A durable polyester powdercoat finish is guaranteed for five years; and is available in standard or custom colors.

The **V-Bollard LED** series is an exceptional choice for low level or pedestrian scale lighting applications.

## Ordering Information

MODEL	HEIGHT	OPTICS	SOURCE	CONFIG.	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS
<b>VBL-1</b>	<b>3</b> 36"	<b>T1</b> Type 1	<b>16LC</b>	<b>S</b> Single	<b>3</b> 350mA	<b>TS</b> 590 nm	<b>UNV</b> 120-277V	<b>AB</b> Anchor Base Anchor Bolt Kit Supplied	<b>BZ</b> Bronze	<b>PC-120</b> Button Type Photocell
	<b>3.5</b> 42"	<b>T2</b> Type 2	<b>32LC</b>		<b>5</b> 530mA		<b>8</b> 347V		<b>BK</b> Black	<b>PC-208</b> Button Type Photocell
	<b>4</b> 48"	<b>T3</b> Type 3	<b>48LC</b>				<b>5</b> 480V		<b>SBK</b> Smooth Black	<b>PC-240</b> Button Type Photocell
		<b>T4</b> Type 4	<b>32LC</b>	<b>D</b> Double					<b>WH</b> White	
		<b>T5</b> Type 5	<b>64LC</b>						<b>SWH</b> Smooth White	<b>PC-277</b> Button Type Photocell
		<b>T5W</b> Type 5 Wide	<b>96LC</b>						<b>GP</b> Graphite	<b>DIM</b> 0-10v Dimming Driver
			Double configuration only						<b>GY</b> Grey	<b>LS</b> Light Shield
									<b>SL</b> Silver Metallic	
									<b>CC</b> Custom Color	

# Features & Specifications

## V-Bollard Turtle Safe

### Housing

Cast aluminum heatsink with integral cooling fins for thermal management. The 4" extruded pole contains the driver(s), allowing for cooler operation and longer life. Silicone gasketing is utilized throughout the fixture for weather tight operation.

### Thermal Management

- The V-Bollard Series provides excellent overall thermal management by maximizing the fixture's heatsink capabilities. This enables the V-Bollard Series to withstand higher ambient temperatures and drive currents without degrading LED life. The V-Bollard Series has a very low thermal resistance rating.
- The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The V-Bollard Series LEDs have been determined to last a minimum of 100,000 hours in 25° C environments when driven at 350 mA.

### Optical System

- The highest lumen output LEDs are utilized in the V-Bollard Series. IES distribution Types 1, 2, 3, 4, 5 and 5W are available. LED light assemblies come in multiples of 16 LED Arrays.
- The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.
- CRI values are 70.

### Quali-Guard® Finish

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors. Finish is guaranteed for five (5) years

### Mounting

The V-Bollard Luminaire is easily attached to the pole by 2 tamper-proof countersunk screws.

### Electrical Assembly

- The V-Bollard LED series is supplied with a choice of 350, 530 mA high-performance LED drivers that accept 120v, 50 Hz to 60 Hz, input.
- Power factor of 90%.
- Rated for -40°C operations.
- 10 kV surge protector supplied as standard.

### Warranty

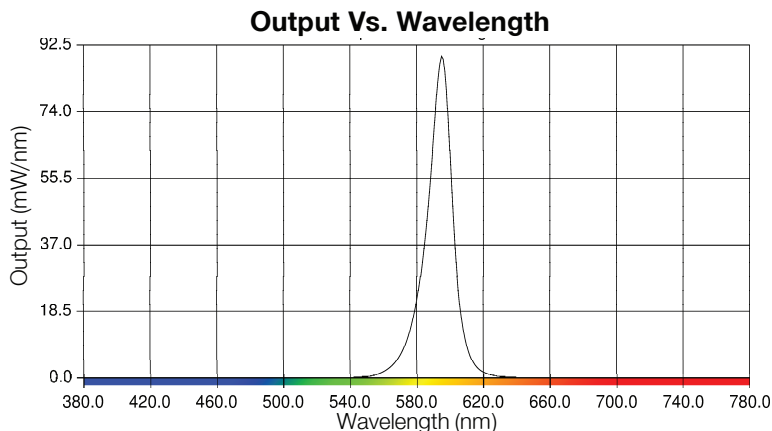
Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit [visionairelighting.com](http://visionairelighting.com).

### Options

- Button Type Photocell
- 0-10v Dimming Driver

### Listings

- The V-Bollard is cUL Listed, suitable for wet locations.
- IP-65 Rated
- Powder Coated Tough.
- IDA Certification



VBL-1 Turtle Safe - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VBL-1-4-T5-16LC-S-3-TS	18	0.15	0.08	0.07	0.06	0.05	0.04
VBL-1-4-T5-16LC-S-5-TS	29	0.24	0.14	0.12	0.10	0.08	0.06
VBL-1-4-T5-32LC-D-3-TS	35	0.29	0.17	0.15	0.13	0.10	0.07
VBL-1-4-T5-32LC-D-5-TS	57	0.48	0.27	0.24	0.21	0.16	0.12
VBL-1-4-T5-32LC-S-3-TS	35	0.29	0.17	0.15	0.13	0.10	0.07
VBL-1-4-T5-32LC-S-5-TS	57	0.48	0.27	0.24	0.21	0.16	0.12
VBL-1-4-T5-64LC-D-3-TS	74	0.62	0.36	0.31	0.27	0.21	0.15
VBL-1-4-T5-64LC-D-5-TS	108	0.90	0.52	0.45	0.39	0.31	0.23

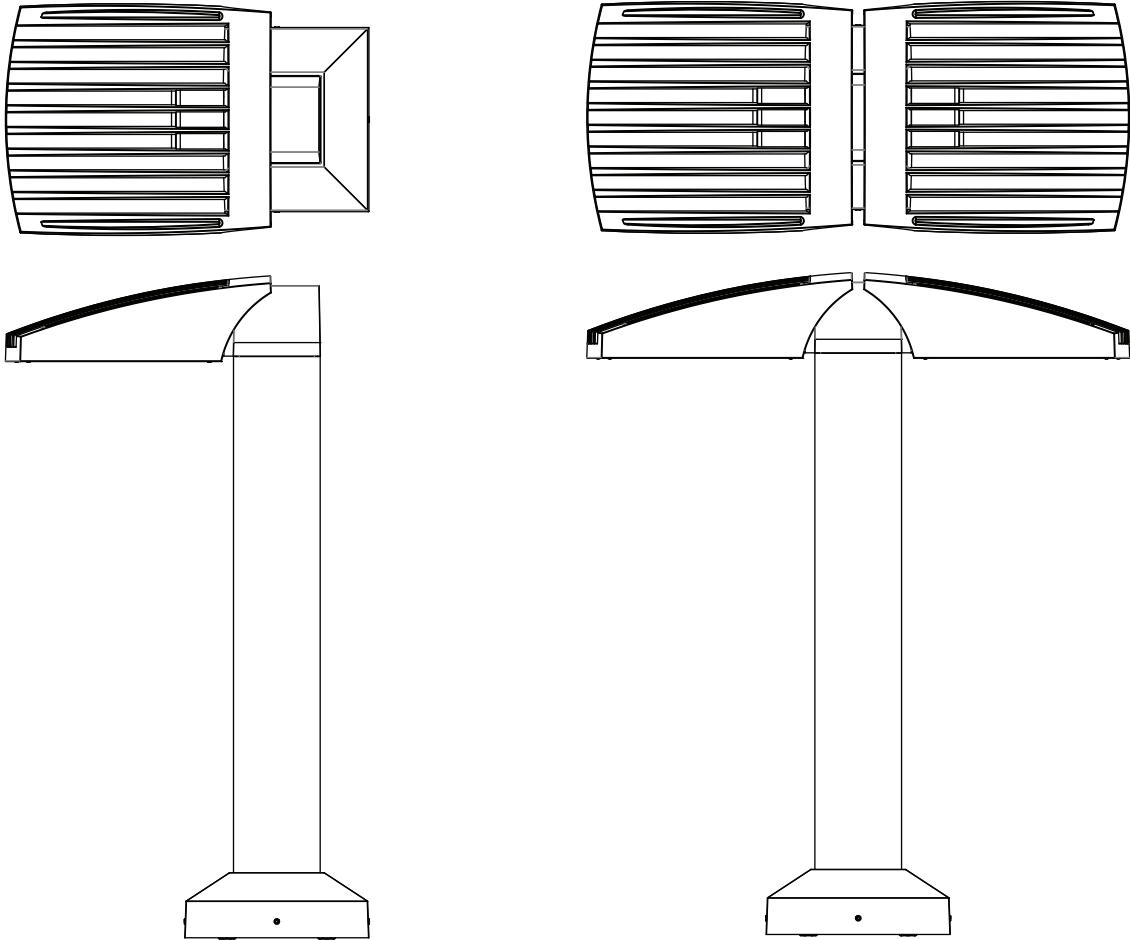
# V-Bollard Turtle Safe LED Specifications

## Photometric Optical Summary



## Dimensions

<b>Width:</b>	VBL-1 10.5"
<b>Height:</b>	VBL-1 4"
<b>Depth:</b>	VBL-1 14.5"/25"
<b>Weight:</b>	VBL-1 27/40 LBS



LED Specifications **V-Bollard Turtle Safe**

VBL SINGLE - TURTLE SAFE - LUMEN CHART																			
Configuration	T1	T2	T3	T4	T5	T5W													Watts
16LC-S_3	796	764	789	753	782	763													16
16LC-S_5	1068	1024	1059	1010	1049	1024													23
32LC-S_3	1603	1538	1589	1515	1573	1537													32
32LC-S_5	2151	2063	2132	2034	2112	2062													46
48LC-S_3	2405	2307	2383	2273	2361	2305													48
48LC-S_5	3226	3095	3198	3050	3168	3092													68
VBL SINGLE - TURTLE SAFE - LUMEN PER WATT CHART																			
Configuration	T1	T2	T3	T4	T5	T5W													Watts
16LC-S_3	50	48	49	47	49	48													16
16LC-S_5	47	45	46	44	46	45													23
32LC-S_3	49	47	49	47	49	47													32
32LC-S_5	47	45	47	45	46	45													46
48LC-S_3	50	48	50	47	49	48													48
48LC-S_5	47	45	47	45	46	45													68
VBL SINGLE - TURTLE SAFE - BUG CHART																			
Configuration	T1			T2			T3			T4			T5			T5W			Watts
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
16LC-S_3	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	16
16LC-S_5	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	23
32LC-S_3	1	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	0	1	32
32LC-S_5	1	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	0	1	46
48LC-S_3	1	0	1	1	0	1	0	0	1	0	0	1	1	0	1	1	0	1	48
48LC-S_5	1	0	1	1	0	1	0	0	1	0	0	1	1	0	1	1	0	1	68
VBL DOUBLE - TURTLE SAFE - LUMEN CHART																			
Configuration	T1	T2	T3	T4	T5	T5W													Watts
64LC-D_3	3206	3075	3178	3031	3147	3073													65
64LC-D_5	4302	4126	4264	4067	4223	4123													91
96LC-D_3	4810	4613	4767	4547	4722	4610													96
96LC-D_5	6453	6189	6396	6110	6335	6185													137
VBL DOUBLE - TURTLE SAFE - LUMEN PER WATT CHART																			
Configuration	T1	T2	T3	T4	T5	T5W													Watts
64LC-D_3	49	47	49	47	49	47													65
64LC-D_5	47	45	47	45	46	45													91
96LC-D_3	50	48	50	47	49	48													96
96LC-D_5	47	45	47	45	46	45													137
VBL DOUBLE - TURTLE SAFE - BUG CHART																			
Configuration	T1			T2			T3			T4			T5			T5W			Watts
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
64LC-D_3	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	65
64LC-D_5	1	0	1	1	0	1	2	0	2	1	0	1	2	0	1	2	0	1	91
96LC-D_3	2	0	2	2	0	2	2	0	2	2	0	1	2	0	1	2	0	1	96
96LC-D_5	2	0	2	2	0	2	2	0	2	2	0	1	2	0	1	2	0	1	137