

# V-Bollard 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, 32 or 48 LEDs per single fixture; and 64 or 96 LED Arrays in a double fixture configuration.

Six optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LED's.

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		
VBL-2	9 9'	T1 Type 1	16LC	S Single	3 350mA	3K 3000K	UNV 120-277V	AB Anchor Base (ANCHOR BOLT KIT SUPPLIED)	BZ Bronze	PC-120 Button Type Photocell		
		T2 Type 2	32LC		5 530mA	4K 4000K	8 347V		BK Black	PC-208 Button Type Photocell		
	10 10'	T3 Type 3	48LC	D Double	7 700mA	5K 5000K	5 480V	SBK Smooth Black	PC-240 Button Type Photocell			
		T4 Type 4	32LC		10 1000mA	1000mA not available for 48LC single or 96LC double	WH White	PC-277 Button Type Photocell				
	11 11'	T5 Type 5	96LC	Double configuration only	1000mA not available for 48LC single or 96LC double	1000mA not available for 48LC single or 96LC double	5 480V	SWH Smooth White	DIM 0-10v Dimming Driver			
		T5W Type 5 Wide	Double configuration only					1000mA not available for 48LC single or 96LC double	1000mA not available for 48LC single or 96LC double	5 480V	GP Graphite	GFI GFI Receptacle *Standard location is in hand hole
											GY Grey	
									SL Silver Metallic			
										CC Custom Color		

## 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 I, II, III, IV, VS and VL 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, 700, 1000 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

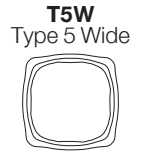
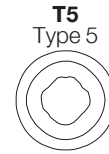
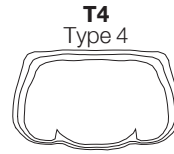
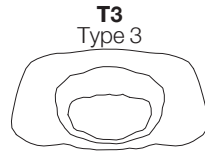
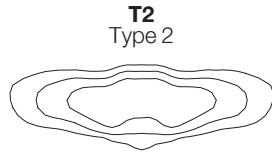
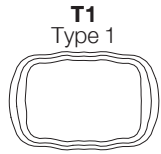


3000K must be selected for IDA certification.

VBL-1 - Electrical Load (A)							
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347V	480V
VBL-2-T3-16LC-3 (Single)	18	0.15	0.09	0.08	0.06	0.05	0.04
VBL-2-T3-16LC-5 (Single)	26	0.22	0.13	0.11	0.09	0.07	0.05
VBL-2-T3-16LC-7 (Single)	37	0.31	0.18	0.15	0.13	0.11	0.08
VBL-2-T3-16LC-10 (Single)	56	0.47	0.27	0.23	0.20	0.16	0.12
VBL-2-T3-32LC-3 (Single)	37	0.31	0.18	0.15	0.13	0.11	0.08
VBL-2-T3-32LC-5 (Single)	52	0.43	0.25	0.22	0.19	0.15	0.11
VBL-2-T3-32LC-7 (Single)	74	0.62	0.36	0.31	0.27	0.21	0.15
VBL-2-T3-48LC-3 (Single)	55	0.46	0.26	0.23	0.20	0.16	0.11
VBL-2-T3-48LC-5 (Single)	78	0.65	0.38	0.33	0.28	0.22	0.16
VBL-2-T3-48LC-7 (Single)	105	0.88	0.50	0.44	0.38	0.30	0.22
VBL-2-T3-64LC-3 (Double)	74	0.62	0.36	0.31	0.27	0.21	0.15
VBL-2-T3-64LC-5 (Double)	104	0.87	0.50	0.43	0.38	0.30	0.22
VBL-2-T3-64LC-7 (Double)	148	1.23	0.71	0.62	0.53	0.43	0.31
VBL-2-T3-96LC-3 (Double)	110	0.92	0.53	0.46	0.40	0.32	0.23
VBL-2-T3-96LC-5 (Double)	156	1.30	0.75	0.65	0.56	0.45	0.33
VBL-2-T3-96LC-7 (Double)	210	1.75	1.01	0.88	0.76	0.61	0.44

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## Photometric Optical Summary



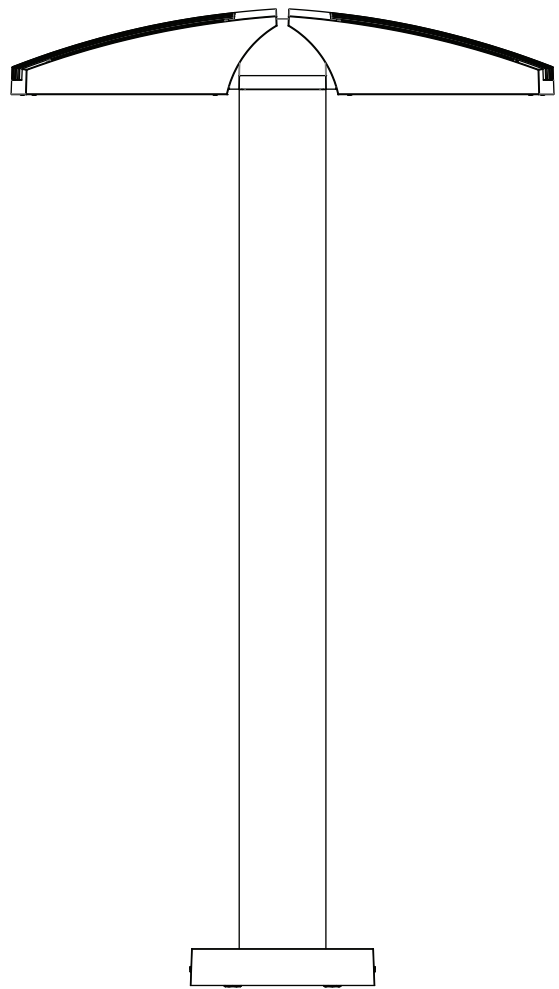
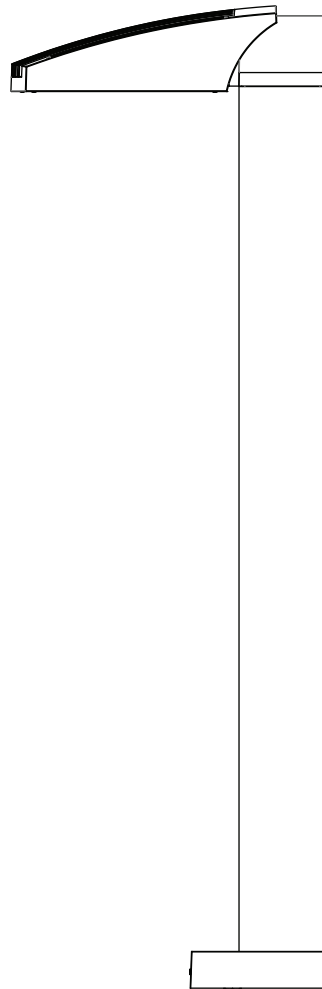
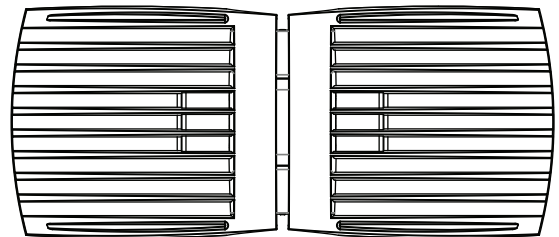
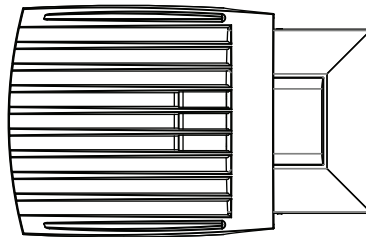
## Dimensions

**Width:** VBL-2 10.5"

**Height:** VBL-2 9-11'

**Depth:** VBL-2 14.5"/25"

**Weight:** VBL-2 27/40 LBS



V BOLLARD - SIZE 2 LUMEN DATA CHART 3K															
Model	of LEDs	mA	T1	LPW	T2	LPW	T3	LPW	T4	LPW	T5	LPW	T5W	LPW	Watts
SINGLE ONE SIDE	16	350	2180	136	2204	138	2085	130	2085	130	2155	135	1967	123	16
		530	2925	128	2957	130	2798	123	2798	123	2891	127	2639	116	23
		700	3861	119	3904	120	3693	114	3693	114	3815	118	3484	107	32
		1050	5466	111	5526	113	5227	107	5227	107	5402	110	4931	100	49
	32	350	4390	135	4438	137	4200	130	4198	129	4337	134	3961	122	32
		530	5891	129	5955	131	5634	124	5634	124	5821	128	5314	117	46
		700	7774	120	7860	121	7437	115	7436	115	7683	118	7015	108	65
		1050	10931	111	11051	113	10455	107	10453	107	10803	110	9862	100	98
	48	350	6586	137	6658	139	6298	131	6298	131	6508	136	5942	124	48
		530	8835	129	8933	131	8451	124	8450	124	8732	128	7972	117	68
		700	11662	127	11791	128	11155	121	11154	121	11526	125	10522	114	92
		1050	16311	119	16481	121	15633	114	15631	114	16155	118	14861	106	137
DOUBLE TWO SIDES	32	350	4390	135	4438	137	4200	130	4198	129	4337	134	3961	122	32
		530	5891	129	5955	131	5634	124	5634	124	5821	128	5314	117	46
		700	7774	120	7860	121	7437	115	7436	115	7683	118	7015	108	65
		1050	10931	111	11051	113	10455	107	10453	107	10803	110	9862	100	98
	64	350	8718	136	8813	138	8434	132	8339	130	8718	136	7960	124	64
		530	11698	128	11824	130	11319	124	11189	123	11696	128	10680	117	91
		700	15440	119	15609	120	14939	115	14770	114	15435	119	14097	109	130
		1050	21858	111	22095	113	21145	108	20904	107	21852	111	19955	102	196
	96	350	13171	137	13316	139	12597	131	12597	131	13017	136	11884	124	96
		530	17671	129	17866	131	16901	124	16901	124	17464	128	15944	117	137
		700	23324	127	23581	128	22310	121	22307	121	23051	125	21044	114	184
		1050	32311	119	32581	121	31433	114	31431	114	32155	118	29861	106	254
V BOLLARD - SIZE 2 LUMEN DATA CHART 4K															
Model	of LEDs	mA	T1	LPW	T2	LPW	T3	LPW	T4	LPW	T5	LPW	T5W	LPW	Watts
SINGLE ONE SIDE	16	350	2295	143	2320	145	2195	137	2195	137	2268	142	2071	129	16
		530	3079	135	3113	137	2945	129	2945	129	3043	134	2778	122	23
		700	4064	125	4109	127	3887	120	3887	120	4016	124	3667	113	32
		1050	5753	117	5817	119	5502	112	5502	112	5686	116	5191	106	49
	32	350	4621	143	4672	144	4421	136	4419	136	4565	141	4170	129	32
		530	6201	136	6269	138	5931	130	5930	130	6127	134	5594	123	46
		700	8184	126	8274	128	7828	121	7827	121	8087	125	7384	114	65
		1050	11507	117	11633	119	11005	112	11003	112	11372	116	10381	106	98
	48	350	6932	144	7009	146	6630	138	6630	138	6851	143	6255	130	48
		530	9300	136	9403	138	8895	130	8895	130	9192	134	8391	123	68
		700	12276	133	12411	135	11742	128	11741	128	12132	132	11076	120	92
		1050	17111	125	17281	127	16433	120	16431	120	16955	124	15661	112	137
DOUBLE TWO SIDES	32	350	4621	143	4672	144	4421	136	4419	136	4565	141	4170	129	32
		530	6201	136	6269	138	5931	130	5930	130	6127	134	5594	123	46
		700	8184	126	8274	128	7828	121	7827	121	8087	125	7384	114	65
		1050	11507	117	11633	119	11005	112	11003	112	11372	116	10381	106	98
	64	350	9177	143	9277	145	8878	139	8777	137	9177	143	8379	131	64
		530	12314	135	12446	137	11914	131	11778	129	12312	135	11243	123	91
		700	16252	125	16431	127	15725	121	15548	120	16247	125	14839	114	130
		1050	23008	117	23258	118	22258	113	22004	112	23002	117	21005	107	196
	96	350	13864	144	14017	146	13260	138	13260	138	13702	143	12510	130	96
		530	18601	136	18806	138	17791	130	17790	130	18383	134	16783	123	137
		700	24552	133	24823	135	23484	128	23481	128	24264	132	22152	120	184
		1050	33311	125	33581	127	32433	120	32431	120	33155	124	30861	112	254
V BOLLARD - SIZE 2 LUMEN DATA CHART 5K															
Model	of LEDs	mA	T1	LPW	T2	LPW	T3	LPW	T4	LPW	T5	LPW	T5W	LPW	Watts
SINGLE ONE SIDE	16	350	2202	138	2226	139	2106	132	2106	132	2177	136	1987	124	16
		530	2955	130	2987	131	2826	124	2826	124	2920	128	2666	117	23
		700	3900	120	3943	122	3730	115	3730	115	3854	119	3519	109	32
		1050	5521	113	5582	114	5280	108	5279	108	5456	111	4981	102	49
	32	350	4435	137	4483	138	4242	131	4241	131	4381	135	4001	123	32
		530	5950	131	6015	132	5691	125	5691	125	5880	129	5368	118	46
		700	7853	121	7940	122	7512	116	7511	116	7761	120	7086	109	65
		1050	11042	113	11163	114	10560	108	10559	108	10912	111	9962	102	98
	48	350	6652	139	6725	140	6362	133	6362	133	6574	137	6002	125	48
		530	8925	131	9023	132	8536	125	8536	125	8820	129	8052	118	68
		700	11780	128	11910	129	11267	122	11266	122	11642	127	10628	116	92
		1050	16671	120	16841	122	16093	115	16091	115	16615	119	15321	108	137
DOUBLE TWO SIDES	32	350	4435	137	4483	138	4242	131	4241	131	4381	135	4001	123	32
		530	5950	131	6015	132	5691	125	5691	125	5880	129	5368	118	46
		700	7853	121	7940	122	7512	116	7511	116	7761	120	7086	109	65
		1050	11042	113	11163	114	10560	108	10559	108	10912	111	9962	102	98
	64	350	8806	138	8902	139	8519	133	8423	132	8806	138	8040	126	64
		530	11816	130	11943	131	11433	125	11302	124	11814	130	10788	118	91
		700	15596	120	15767	122	15090	116	14920	115	15591	120	14239	110	130
		1050	22078	112	22319	114	21358	109	21115	108	22072	112	20156	103	196
	96	350	13304	139	13451	140	12724	133	12724	133	13148	137	12004	125	96
		530	17849	131	18046	132	17072	125	17071	125	17641	129	16105	118	137
		700	23560	128	23820	129	22535	122	22533	122	23284	127	21257	116	184
		1050	32311	120	32581	122	31433	115	31431	115	32155	119	29861	106	254