

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-1	3 36"	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		
			32LC						BK Black	PC-208 Button Type Photocell		
	3.5 42"	T2 Type 2	48LC	D Double	5 530mA	4K 4000K	8 347V	SBK Smooth Black	WH White	PC-240 Button Type Photocell		
			32LC								SWH Smooth White	PC-277 Button Type Photocell
	4 48"	T3 Type 3	64LC	10 1000mA	7 700mA	5K 5000K	5 480V	GP Graphite	GY Grey	SL Silver Metallic	DIM 0-10v Dimming Driver	
			96LC									ZFP Zinc-Free Primer
			T5 Type 5									CC Custom Color
	T5W Type 5 Wide		Double configuration only	1000mA not available for 48LC single or 96LC double								

Features & Specifications

V-Bollard

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.
- Zinc-Free Primer is used as an additional protective barrier between the luminaire and harsh environments

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.

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



**IP65
RATED**



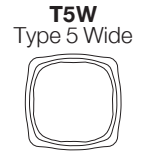
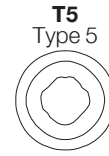
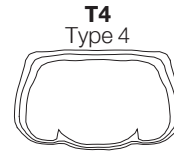
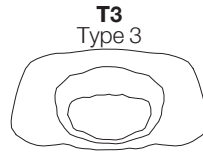
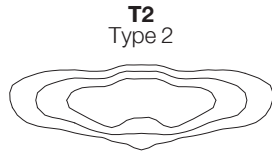
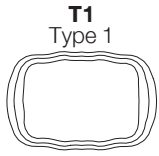
3000K must be selected for IDA certification.

VBL-1 - Electrical Load (A)

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

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Photometric Optical Summary



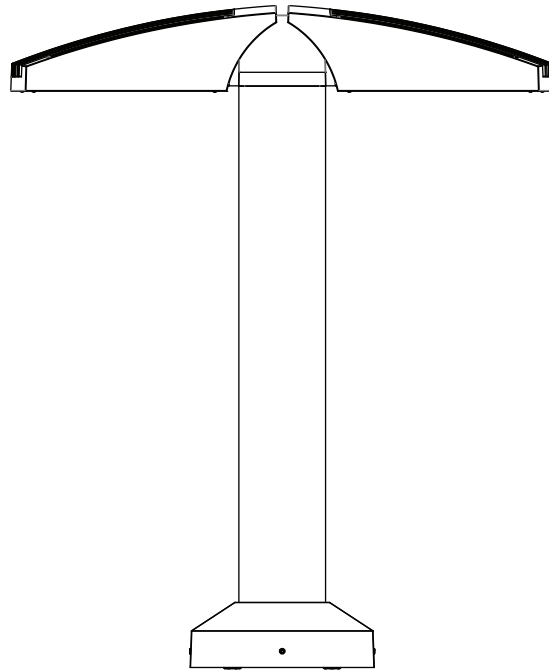
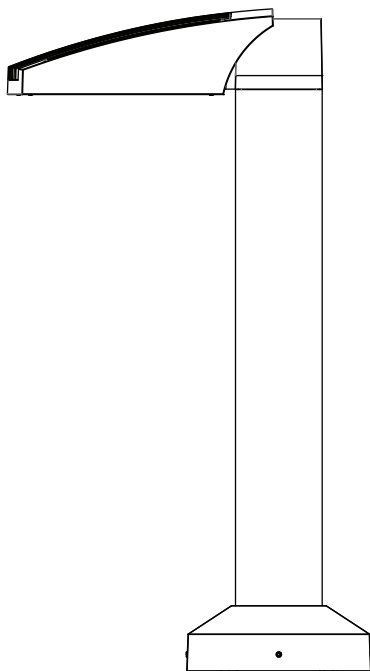
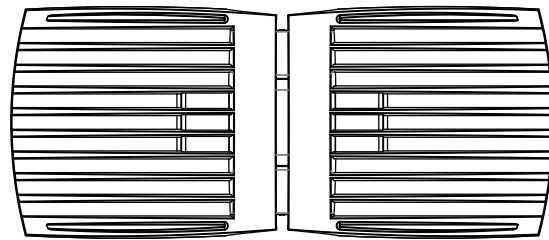
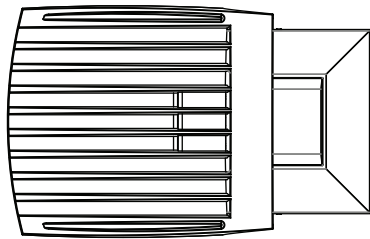
Dimensions

Width: VBL-1 10.5"

Height: VBL-1 4"

Depth: VBL-1 14.5"/25"

Weight: VBL-1 27/40 LBS



V BOLLARD - SIZE 1 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	2413	134	2220	123	2237	124	2190	122	2359	131	2231	124	18
		530	3238	125	2978	115	3002	115	2938	113	3164	122	2993	115	26
		700	4273	115	3931	106	3962	107	3878	105	4177	113	3950	107	37
		1000	6049	108	5565	99	5610	100	5490	98	5913	106	5592	100	56
	32	350	4858	131	4471	121	4506	122	4410	119	4750	128	4492	121	37
		530	6519	125	5997	115	6046	116	5917	114	6373	123	6027	116	52
		700	8604	116	7916	107	7980	108	7810	106	8411	114	7954	107	74
		1000	12097	123	11874	113	11970	114	11714	112	12617	120	11932	114	105
	48	350	7287	132	6705	122	6759	123	6615	120	7125	130	6737	122	55
		530	9778	125	8997	115	9069	116	8875	114	9559	123	9040	116	78
		700	12907	123	11874	113	11970	114	11714	112	12617	120	11932	114	105
		1000	19214	123	18041	113	18187	114	17933	112	18780	120	18097	114	140
DOUBLE TWO SIDES	32	350	4826	134	4440	123	4475	124	4380	122	4718	131	4461	124	36
		530	6475	125	5957	115	6004	115	5877	113	6329	122	5985	115	52
		700	8546	115	7862	106	7925	107	7756	105	8354	113	7900	107	74
		1000	12097	108	11130	99	11220	100	10980	98	11826	106	11183	100	112
	64	350	9717	131	8941	121	9012	122	8820	119	9500	128	8983	121	74
		530	13038	125	11995	115	12092	116	11833	114	12745	123	12054	116	104
		700	17208	116	15833	107	15960	108	15620	106	16823	114	15909	107	148
		1000	25515	123	24342	113	24488	114	24234	112	25081	120	24387	114	192
	96	350	14575	132	13410	122	13519	123	13230	120	14250	130	13475	122	110
		530	19557	125	17993	115	18137	116	17750	114	19118	123	18080	116	156
		700	25813	123	23748	113	23940	114	23429	112	25234	120	23864	114	210
		1000	38120	123	36055	113	36247	114	35736	112	36631	120	36061	114	282
V BOLLARD - SIZE 1 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	2540	141	2337	130	2355	131	2305	128	2483	138	2348	130	18
		530	3408	131	3135	121	3160	122	3093	119	3331	128	3150	121	26
		700	4498	122	4138	112	4171	113	4082	110	4397	119	4158	112	37
		1000	6367	114	5858	105	5905	105	5779	103	6224	111	5886	105	56
	32	350	5114	138	4706	127	4743	128	4642	125	5000	135	4728	128	37
		530	6862	132	6313	121	6364	122	6228	120	6708	129	6344	122	52
		700	9057	122	8333	113	8400	114	8221	111	8854	120	8373	113	74
		1000	12907	123	11874	113	11970	114	11714	112	12617	120	11932	114	105
	48	350	7671	139	7058	128	7115	129	6963	127	7500	136	7092	129	55
		530	10293	132	9470	121	9546	122	9342	120	10062	129	9516	122	78
		700	13586	129	12499	119	12600	120	12331	117	13281	126	12560	120	105
		1000	19214	123	18041	113	18187	114	17933	112	18780	120	18097	114	140
DOUBLE TWO SIDES	32	350	5080	141	4674	130	4710	131	4610	128	4966	138	4696	130	36
		530	6816	131	6270	121	6320	122	6186	119	6662	128	6300	121	52
		700	8996	122	8276	112	8342	113	8164	110	8794	119	8316	112	74
		1000	12734	114	11716	105	11810	105	11558	103	12448	111	11772	105	112
	64	350	10228	138	9412	127	9486	128	9284	125	10000	135	9456	128	74
		530	13724	132	12626	121	12728	122	12456	120	13416	129	12688	122	104
		700	18114	122	16666	113	16800	114	16442	111	17708	120	16746	113	148
		1000	25515	123	24342	113	24488	114	24234	112	25081	120	24387	114	192
	96	350	15342	139	14116	128	14230	129	13926	127	15000	136	14184	129	110
		530	20586	132	18940	121	19092	122	18684	120	20124	129	19032	122	156
		700	27172	129	24998	119	25200	120	24662	117	26562	126	25120	120	210
		1000	38120	123	36055	113	36247	114	35736	112	36631	120	36061	114	282
V BOLLARD - SIZE 1 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	2437	135	2242	125	2260	126	2212	123	2383	132	2253	125	18
		530	3270	126	3008	116	3033	117	2968	114	3197	123	3023	116	26
		700	4316	117	3971	107	4003	108	3918	106	4219	114	3990	108	37
		1000	6110	109	5621	100	5666	101	5545	99	5973	107	5648	101	56
	32	350	4908	133	4515	122	4552	123	4454	120	4798	130	4537	123	37
		530	6585	127	6058	117	6107	117	5977	115	6437	124	6087	117	52
		700	8691	117	7996	108	8061	109	7889	107	8496	115	8035	109	74
		1000	12907	123	11874	113	11970	114	11714	112	12617	120	11932	114	105
	48	350	7362	134	6773	123	6827	123	6682	121	7197	131	6806	124	55
		530	9877	127	9087	117	9160	117	9065	116	9656	124	9131	117	78
		700	13037	124	11994	114	12091	115	11833	113	12745	121	12052	115	105
		1000	19214	123	18041	113	18187	114	17933	112	18780	120	18097	114	140
DOUBLE TWO SIDES	32	350	4874	135	4484	125	4520	126	4424	123	4766	132	4506	125	36
		530	6540	126	6016	116	6066	117	5936	114	6394	123	6046	116	52
		700	8632	117	7942	107	8006	108	7836	106	8438	114	7980	108	74
		1000	12220	109	11242	100	11332	101	11090	99	11946	107	11296	101	112
	64	350	9816	133	9030	122	9104	123	8908	120	9596	130	9074	123	74
		530	13170	127	12116	117	12214	117	11954	115	12874	124	12174	117	104
		700	17382	117	15992	108	16122	109	15778	107	16992	115	16070	109	148
		1000	25515	123	24342	113	24488	114	24234	112	25081	120	24387	114	192
	96	350	14724	134	13546	123	13644	123	13364	121	14394	131	13612	124	110
		530	19754	127	18174	117	18320	117	17930	116	19312	124	18262	117	156
		700	26074	124	23988	114	24182	115	23666	113	25490	121	24104	115	210
		1000	38120	123	36055	113	36247	114	35736	112	36631	120	36061	114	282