

Cross Bow™

Architectural LED Luminaire / Bollard



VISIONAIRE LIGHTING

Performance In A Whole New Light



Cross Bow™ Architectural LED Luminaire / Bollard



The new **Cross Bow™** LED Luminaire from Visionaire combines unique contemporary design with new LED technology and provides optimum lighting and energy savings over traditional lighting systems. Choose the Architectural LED Luminaire / Bollard for pedestrian scale or the bollard for low level applications.

LED Technology

- 16L to 64L LED's available in 350, 530, 700 or 1000 mA ratings.
- 4000 or 5500 Kelvin for natural or white light.
- Full cutoff optics available in six distribution patterns.
- 50,000 to 140,000 hours of life for the LED's

Construction

- Die Cast aluminum construction throughout provides lasting durability for the Cross Bow™ - LED series.
- A cast aluminum driver compartment allows for cooler operation and longer life of the driver.
- Driver maintenance is simplified with quick disconnects provided as a standard feature.
- The LED's are mounted to an die cast aluminum heat sink built to draw heat away from the LED junction points for extended LED life; and are housed totally independent from the driver.

Applications

- The Cross Bow™ - LED series can be used for a variety of lighting projects.
- Low level lighting for pathways and landscape lighting
- Higher level lighting for pedestrian and walkway lighting
- 19 to 213 watts of energy efficient lighting.

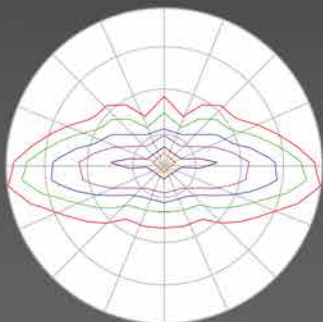




PHOTOMETRIC PERFORMANCE & OPTICAL RECOMMENDATION

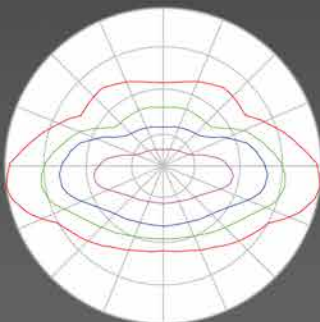
Product configurations are tested to LM-79 and Design Light Consortium standards, verified through independent testing.

Type I Optic



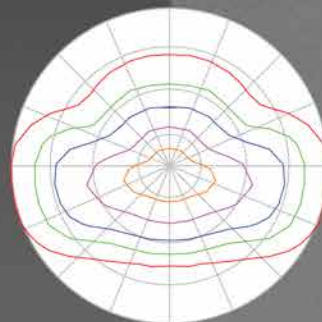
This distribution is ideal for lighting sidewalks and narrow walkways.

Type II Optic

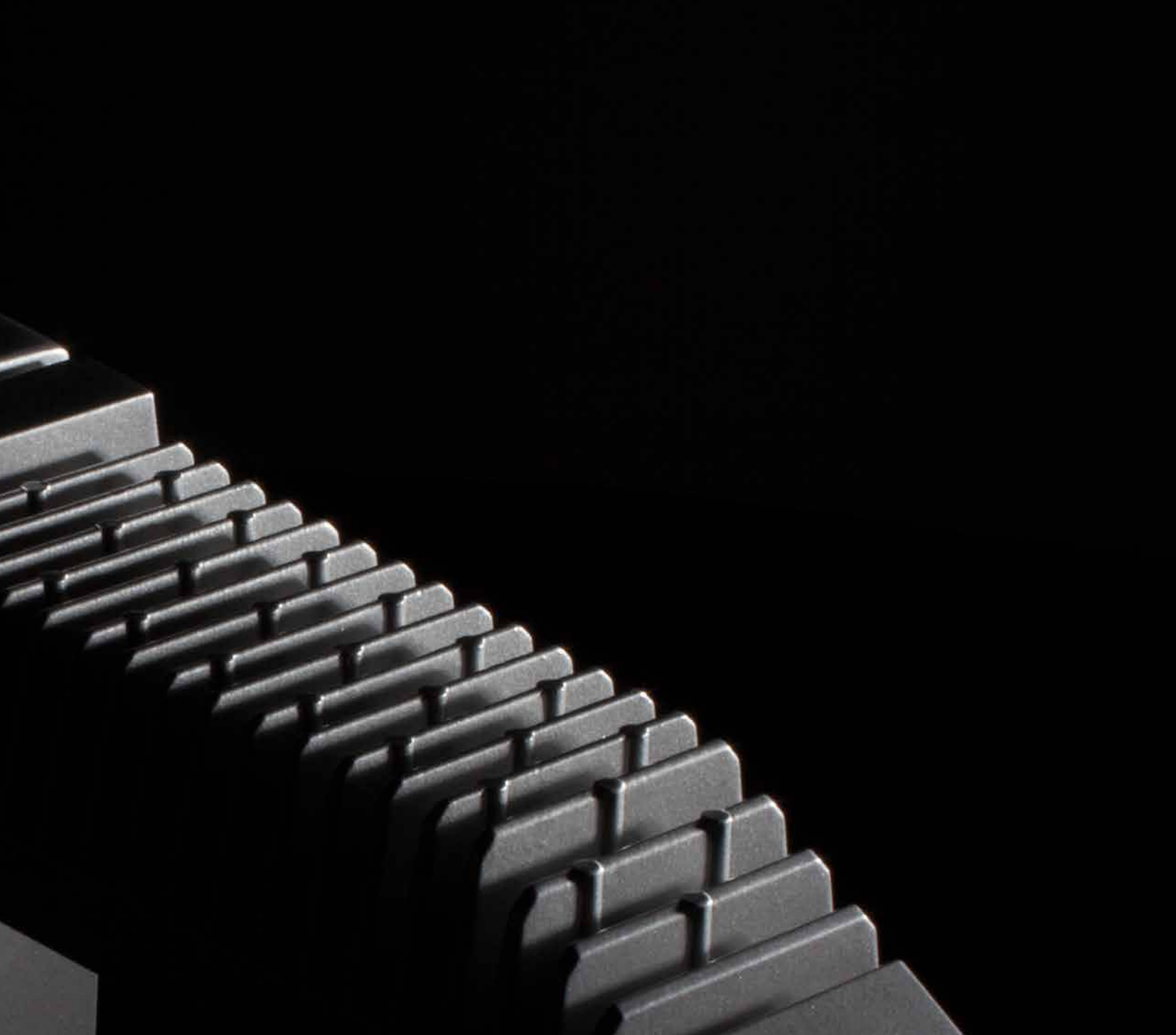


Type II has a distribution suited for wider paths (side streets and jogging paths).

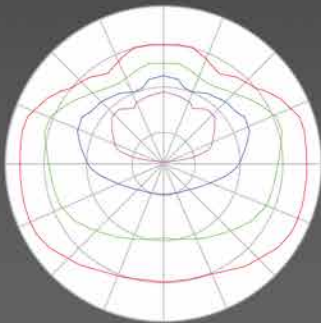
Type III Optic



Type III - This type of distribution is meant for general parking, lawns and other areas where large quantity of lighting is needed.

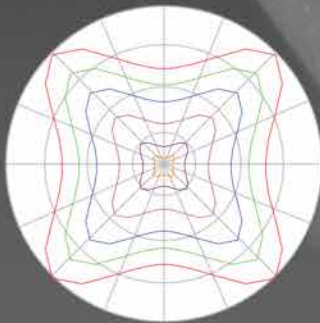


Type IV Optic



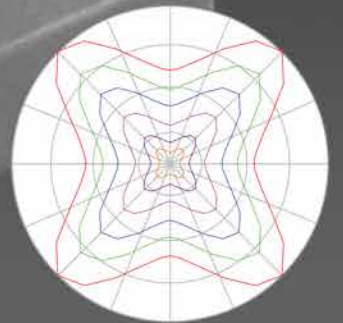
Works well for lighting fixtures mounted on walls, best for illuminating the perimeter.

Type V Optic



Type 5 is meant for large areas or any area where uniform light distributed is required.

Type V-W Optic



Ideal for uniform light distribution with greater fixture spacing.



Precision Die Cast Aluminum Housing

Compliments the cast aluminum driver compartment.

2X LED Array Design

Offers a total count of 32 (C-Bow-1) or 64 (C-Bow-2), Linear Bow™ design creates uniform lighting results.

Full Cutoff Optics

Available in 6 different distribution patterns including Type 1, Type 2, Type 3, Type 4, Type 5 and 5 Wide.

Captive Stainless Steel Screws

Countersunk tamper-proof screws for easy fixture installation.

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Integral Heat Sink

Die Cast aluminum heat sink is built to draw heat away from the LED junction points for extended LED life.

Cast Aluminum Driver Compartment

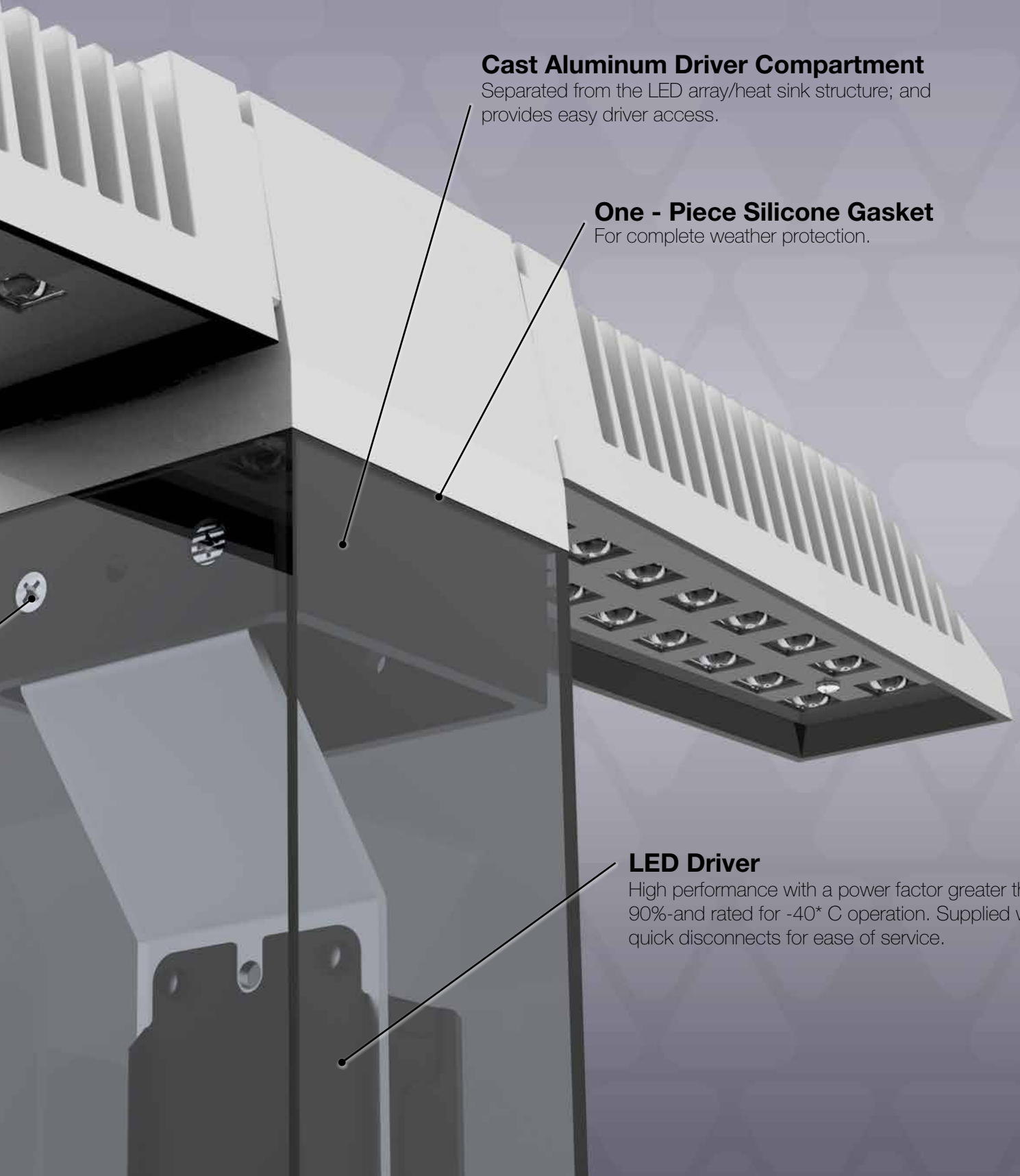
Separated from the LED array/heat sink structure; and provides easy driver access.

One - Piece Silicone Gasket

For complete weather protection.

LED Driver

High performance with a power factor greater than 90%-and rated for -40* C operation. Supplied with quick disconnects for ease of service.



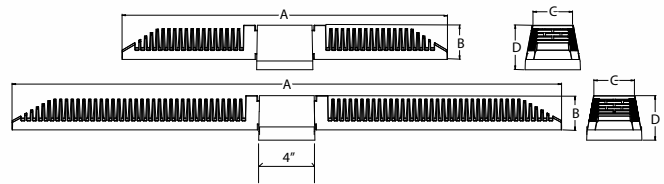




Cross Bow LED



Dimensional Drawings



Fixture	A	B	C	D	Max. Watts	Lbs
C-Bow-1	24"	2½"	4"	3¼"	119W	16
C-Bow-2	40"	2½"	4"	3¼"	230W	22

The Cross Bow™ LED Series continues the unique contemporary design inspired by the sleek styling of the Bow™ family. Separating the Driver(s) from the individual die-cast aluminum linear LED 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; and are offered in up to 64 LED's.

Six optical distribution patterns are available. Choose between 4000 or 5500 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 Cross Bow™ LED series is an exceptional choice for low level or pedestrian scale lighting applications.

Model	Model	Optics	Source	Current	Kelvin	Voltage	Mounting	Finish	Options
C-BOW-1	3 FT. (3)	Type I (T1)	# of LEDs C-BOW-1 16 (16LC)	mA 350 (3)	4000K *Neutral white (4K)	120-277 *Universal voltage (UNV)	Anchor Base (ANCHOR BOLT KIT SUPPLIED) (AB)	Bronze (BZ)	Button Type Photocell *Specify voltage (PC120) (PC208) (PC240) (PC277) Wireless Control Consult Factory (WC) Dimming Control Consult Factory 0-10v Dimming Driver No Controls (DIM) Dual Circuit *Doubles Only (DC)
	4 FT. (4)	Type II (T2)	*Single	530 (5)	5500K *Cool white (55K)	347 (8)		Black (BK)	
		Type III (T3)	32 (32LC)	700 (7)				Smooth Black (SBK)	
		Type IV (T4)	*Double	1000 (10)				White (WH)	
C-BOW-2	9 FT. (9)	Type V (T5)	C-BOW-2 32 (32LC)	700 (7)				Smooth White (SWH)	
	10 FT. (10)	Type V-W (T5W)	*Single	1000 (10)			Graphite (GP)		
	11 FT. (11)		64 (64LC)				Grey (GY)		
			*Double				Silver Metallic (SL)		
							Custom Color (CC)		

For more detailed information on mounting, wiring or installation instructions, please consult factory. If poles are not ordered with fixtures, please specify mounting requirements. This document contains proprietary information of Visionaire Lighting, LLC. Any use of this information requires the written approval of Visionaire Lighting, LLC. In keeping with our TQM policy of continuous improvement, Visionaire reserves the right to change any specifications contained herein without prior notice.

Housing

• The LED light engines are constructed of heavy-duty, die-cast aluminum, with external heat radiating fins. 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 Cross BOW™ Series provides excellent overall thermal management by maximizing the fixture's heat sink capabilities. This enables the Cross Bow™ Series to withstand higher ambient temperatures and drive currents without degrading LED life. The Cross BOW™ 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 Cross BOW™ Series LEDs have been determined to last a minimum of 140,000 hours in 25° C environments when driven at 350 mA.

Optical System

• The highest lumen output, Evo/C LEDs are utilized in the Cross BOW™ Series. IES distribution Types I, II, III, IV, V and V-W are available. LED light assemblies come in multiples of 16 or 32 LEDs. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution. CRI values are 70 for 4000K and 75 for 5500K.

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 Cross BOW™ Luminaire is easily attached to the pole by 2 tamper-proof countersunk screws.

Electrical Assembly

- The BOW Series is supplied with a choice of 350 to 1000 mA C-BOW-1 and 700 to 1000 mA C-BOW-2 high-performance LED drivers that accept 120v thru 347v, 50 Hz to 60 Hz, input.
- 10 kV surge protector supplied as standard.

Warranty

- Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit VisionaireLighting.com.

Options

- Button Type Photocell
- Wireless Control
- Dimming Control
- 0-10v Dimming Driver
- Dual Circuit

Listings

- Cross BOW™ Series is ETL listed, suitable for wet locations.
- LM79 and LM80.
- RoHS compliant.
- Dark-Sky Friendly®, full cutoff certified by the International Dark-Sky Association.
- IP66 listed.
- DLC Listed
- Powder Coated Tough™ .



IP66
Rated



lighting facts



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>

Cross Bow Lumen 5K Data

	Number of Sides	# of LEDs	mA	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 5W	WATTAGE
C-Bow-1	1	16	350	888	923	861	997	1068	1102	17
			530	1194	1241	1158	1341	1437	1483	25
			700	1606	1669	1558	1804	1932	1994	34
			1000	2160	2245	2095	2426	2599	2682	48
C-Bow-1	2	32	350	2088	2170	2025	2345	2512	2592	34
			530	3311	3442	3212	3719	3985	4112	51
			700	5252	5460	5095	5900	6320	6521	74
			1000	7063	7342	6851	7933	8499	8770	119
C-Bow-2	1	32	350	2904	3019	2817	3262	3495	3606	34
			530	3906	4060	3789	4387	4700	4849	51
			700	5252	5460	5095	5900	6320	6521	74
			1000	7063	7342	6851	7933	8499	8770	119
C-Bow-2	2	64	350	3720	3867	3609	4179	4476	4619	68
			530	5900	6133	5724	6628	7100	7326	102
			700	9359	9728	9079	10512	11261	11620	142
			1000	14843	15430	14399	16673	17861	18430	230

Visit www.VisionaireLighting.com for up-to-the-minute chart information, including types not listed here.

* For 4000K multiply values by 0.97



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