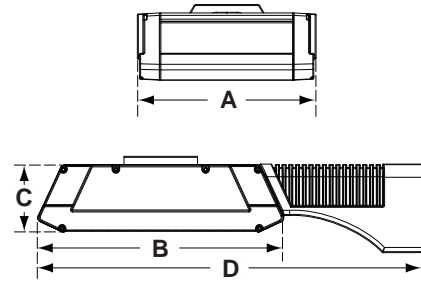


Element LED

Project Name	Type
Catalog Number	



Dimensional Drawings



Fixture	A	B	C	D	Max. LEDs	Lbs
ELE-1	12 ⁷ / ₈ "	14 ¹ / ₂ "	4"	21 ¹ / ₂ "	96	28 ¹ / ₂
ELE-2	22 ⁷ / ₈ "	14 ¹ / ₂ "	4"	21 ¹ / ₂ "	168	37
ELE-3	32 ⁷ / ₈ "	14 ¹ / ₂ "	4"	21 ¹ / ₂ "	240	44 ¹ / ₂

The **Element** is a modularly-designed area luminaire that maximizes the latest in LED technology. It is available in three sizes, offering from 25 to 350 nominal watts of LED lighting. The **Element** masters the art of efficient heat dissipation, electronic driver protection, maximization of optics control; and features a wide array of energy and security options for optimal efficiency and safety.

The range of housing sizes is accomplished by utilizing a heavy-duty, extruded aluminum body, with heat radiating fins for cutting edge thermal management.

Cast aluminum end caps, and a shielded, perforated top cover, beneath a protective debris guard, complete the construction of this innovative, long-life LED luminaire. The standard finish on the

Element is a thermoset polyester powder coat painted finish in standard and custom colors.

The **Element** utilizes a high-performance LED light engine; and the highest lumen output VisionBar™ LEDs; with built-in optical control; to provide IES Types I, II, III, IV and V distribution patterns. It qualifies as an IES full cutoff fixture; and is Dark-Sky certified to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.

The **Element** boasts an excellent thermal management rating that results in increased lumen output and an LED minimum life estimated from 60,000 to 200,000 hours. Control systems may extend the life of all the **Element** and further reduce maintenance costs. See LED Data Chart for more information.

Model	Optics	Source	Milliamps	Kelvin	Voltage	Mounting	Finish	Options						
ELE-1	Type I (T1)	# of LEDs 24 (24L)	mA 350 (3)	4000K (4K)	120-277 *Universal voltage (UNV)	Bolt-On Arm (BOA)	White (WH)	Button Type Photocell *Specify voltage (PC120) (PC208) (PC240) (PC277)						
	Type II (T2)	48 (48L)	530 (5)						Solar 12 VDC (12VDC)	Wall Mount *Includes Cast Wall Plate (WM)	Bronze (BZ)	Dual Circuit (DC)		
	Type III (T3)	72 (72L)	700 (7)							Knuckle Mount (KM)	Black (BK)	Cutoff Louver System (CLS)		
	ELE-2	Type IV (T4)	120 (120L)							240 (240L)	*Not available in 700 mA (240L)	Mast Arm Fitter (MAF)	Grey (GY)	Motion Sensor (MS)
		Type V (T5)	144 (144L)											
ELE-3	Type V (T5)	192 (192L)	240 (240L)	*Not available in 700 mA (240L)	Round Pole Plate Adaptors (RPP) are to be ordered separately.	Custom Color (CC)	Round Pole Plate Adaptor For 4"Ø Pole (RPP4) For 5"Ø Pole (RPP5)							
		216 (216L)						Consult factory for 347-480V						
		240 (240L)												

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.



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Housing

• The fixture housing is heavy-duty, extruded aluminum, with heat radiating fins. A perforated aluminum top cover protects the heat radiating fins from contaminants and directs constant air flow over them for maximum cooling.

Thermal Management

• The **Element** provides excellent overall thermal management by maximizing the fixture's heat sink efficiency. This enables the **Element** to withstand higher ambient temperatures and drive currents without degrading LED life. The **Element** has a low thermal resistance rating. The heat radiating fins and perforated fixture components (see Thermal Convection Heat Management System cutaway below) create superior thermal management results.

• The **L₇₀** test determines the point in an LEDs life when it reaches 70 percent of its initial output. **Element** series LEDs have been determined to last 200,000+ hours in 40 °C environments when driven at 350 mA. See LED Data Chart for additional test results.

Optical System

• The highest lumen output LEDs available are utilized in the **Element** series. IES distribution Types I, II, III, IV and V are available. The LED VisionBar™ light assemblies come in multiples of 24 (minimum 24 to maximum 240 LEDs) and are field replaceable. The optical system qualifies as IES full cutoff, and is Dark-Sky certified to restrict light trespass, glare and light pollution.

Quali-Guard® Finish

• A Quali-Guard® thermoset polyester powder coat painted finish is available in white and custom colors.

Mounting

• The **Element** is provided with a pre-mounted, cast aluminum bolt-on arm (BOA) and Quick Mount pole adaptor that is shipped installed on a Visionaire pole. Installation is as simple as hooking the bolt-on arm onto the pole adaptor and tightening one set screw (see Quick Mount Arm detail). A Round Pole Plate adaptor (RPP) is required for mounting to 3"-5" round poles.

Electrical Assembly

• The **Element** is supplied with a choice of 350, 530 or 700 mA high-performance LED drivers that accept 120v thru 277v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -40 °C operations.

Solar Vision Pole™ Option

• The **Element** LED is compatible for use with Visionaire Lighting's Solar Vision Pole™. Power up to 50 watts (SMR-1 wrap) or 100 watts (SMR-2 rigid panel) off-the-grid in any locale.

Warranty



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

Options

- Button type photocell
- Dual circuit
- Cutoff louver system
- Motion sensor
- High-low system
- Round pole plate adaptor

Please consult factory for custom options and available upgrades.

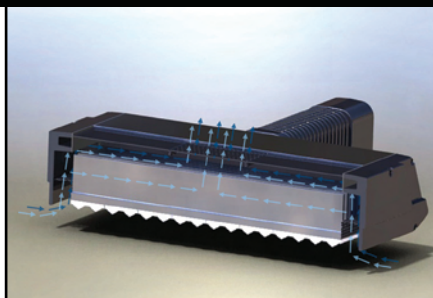
Listings

- **Element** is  listed, suitable for wet locations.
- LM79 and LM80.
- Dark-Sky Friendly®, full cutoff certified by the International Dark-Sky Association.
- Meets ANSI 2GC136.31-2001 Vibration Standards when ordered with the MAF mounting option.
- IP65 Pending.
- Powder Coated Tough™ 

LED Data Chart							
# Bars	# LEDs	Output mA	Nominal Watts	Initial Lumens T3	Initial Lumens T5	System Watts 120-277	L ₇₀ Hours @ 40° C
1 ELE-1	24	350	25	1,774	1,946	28	200,000
		530	35	2,439	2,680	39	120,000
		700	50	2,962	3,255	55	70,000
2 ELE-1	48	350	50	3,504	3,850	56	200,000
		530	70	4,540	4,989	78	120,000
		700	100	5,667	6,228	110	70,000
3 ELE-1	72	350	75	5,185	5,698	84	200,000
		530	105	6,928	7,613	117	120,000
		700	150	8,057	8,854	165	70,000
4 ELE-1	96	350	100	6,916	7,600	112	200,000
		530	140	8,911	9,792	156	120,000
		700	200	10,072	11,068	220	70,000
5 ELE-2	120	350	125	8,175	9,164	130	200,000
		530	175	10,637	11,928	199	80,000
		700	250	12,457	13,968	268	60,000
6 ELE-2	144	350	150	9,810	10,997	156	200,000
		530	210	12,681	14,224	237	80,000
		700	300	14,752	16,547	319	60,000
7 ELE-2	168	350	175	11,444	12,830	182	200,000
		530	245	14,716	16,488	274	80,000
		700	350	17,005	19,053	368	60,000
8 ELE-3	192	350	200	13,073	14,663	208	200,000
		530	280	16,702	18,558	312	140,000
		700	400	19,167	21,483	418	60,000
9 ELE-3	216	350	225	14,539	16,635	238	200,000
		530	315	18,735	21,427	354	140,000
		700	450	21,704	24,823	475	60,000
10 ELE-3	240	350	250	16,162	18,483	264	200,000
		530	350	20,731	23,689	391	140,000
		700	N/A	N/A	N/A	N/A	N/A

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

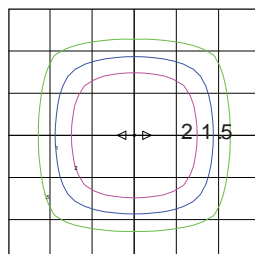
Thermal Convection Heat Management System (Cutaway)



Quick Mount Arm Detail



Isolux Curve









ELEMENT-3
TYPE V
LED OPTICS
240 LEDs @ 350 mA

Scale: 1 Square = 30 ft
Initial Light Loss Factor = 1.00
Total Lumens Per Luminaire = 18,483
Mounting Height = 33 ft
Arrangement: Twin (back-to-back)

ITL Test Report #L03100501

EPA Data

Fixture with Arm						
ELE-1	.6	.9	1.3	1.4	1.4	1.4
ELE-2	.7	n/a	1.3	n/a	1.5	n/a
ELE-3	1.0	n/a	1.3	n/a	n/a	n/a