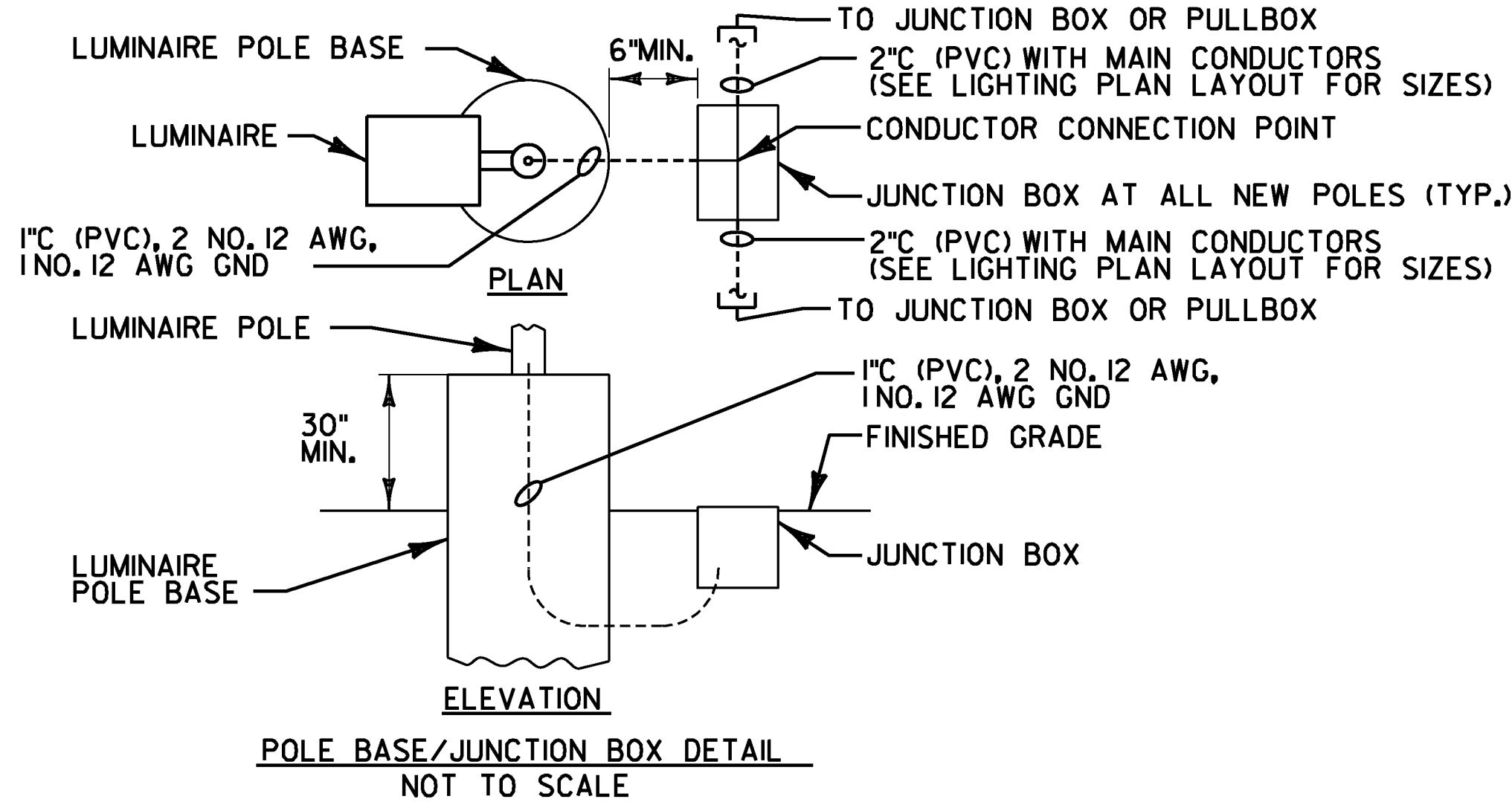


LUMINAIRE SCHEDULE						
LUMINAIRE		LAMP NO.	LAMP WATTS	VOLTAGE	MANUFACTURER AND BASE MODEL NUMBER	REMARKS AND COMMENTS
TYPE	MTG					
L-I	16FT POLE	LED	107W	240V	VISIONAIRE LIGHTING: EL2-I-T3-96L-3-55K-UNV-BOA-BZ-PC240 (REQUIRED BUG RATING OF 2-0-2)	WITH BUTTON TYPE PHOTOCELL
POLE				LITHONIA: 3RTA-I6-5C-DM19-FBC-VD-TP-DDB		PROVIDE ROUND POLE ADAPTER FOR SIZE OF POLE INSTALLED

NOTES:

- THE LIGHTING FIXTURE SELECTED IS USED AS A BASIS FOR THIS DESIGN (VISIONAIRE LIGHTING). OR EQUAL LIGHTING FIXTURES COULD BE USED IF REQUIRED. HOWEVER A REVISED LIGHTING CALCULATION WILL BE REQUIRED TO CONFIRM COMPLIANCE WITH THE PROJECT DESIGN REQUIREMENTS. OR EQUAL LIGHTING FIXTURES SHALL HAVE A BUG RATING OF 2-0-2 OR BETTER.
- BIRD SPIKES SHALL BE INCLUDED ON ALL LUMINAIRES.



Area

Element LED

50

03/22/11

Project Name

Type

Catalog Number

Dimensional Drawings

Fixture

A

B

C

D

Max. LEDs

Lbs

EL2-S

13 1/4"

14 1/2"

4"

21 1/2"

72

30

EL2-1

17 1/4"

14 1/2"

4"

21 1/2"

96

34

EL2-2

23 3/4"

14 1/2"

4"

21 1/2"

144

38

EL2-3

28 3/4"

14 1/2"

4"

21 1/2"

192

41

The **Element** is a modularly-designed area luminaire that maximizes the latest in LED technology. It is available in four sizes, offering from 25 to 400 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.

Removable die-cast aluminum end caps for easy driver access, 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	Current	Kelvin	Voltage	Mounting	Finish	Options
EL2-S	Type I (T1)	# of LEDs 24 (24L)	350 530 700	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) 72 (72L)	350 530 (3) (5) (7)	5500K (55K)	480 (5)	Wall Mount *Includes Cast Wall Plate (WM)	Bronze (BZ)	Dual Circuit (DC)
	Type III (T3)	24 (24L)	350 530 700		347 (8)	Knuckle Mount (KM)	Black (BK)	Cutoff Louver System (CLS)
	Type IV (T4)	48 (48L) 72 (72L)	350 530 700			Mast Arm Fitter (MAF)	Forest Green (FG)	Motion Sensor (MS)
EL2-2	Type V (T5)	120 (120L) 144 (144L)	350 530 700 (3) (5) (7)				Grey (GY) Silver Metallic (SL)	Round Pole Plate Adaptor For 4" Pole (RPP4) For 5" Pole (RPP5)
		168 (168L)	350 530 700				Custom Color (CC)	Controls *Consult Factory
		192 (192L)	350 530 700 (3) (5) (7)					Element Conduit Box (ECB)
EL2-3		168 (168L)	350 530 700					
		192 (192L)	350 530 700 (3) (5) (7)					

For more detailed information on mounting, wiring or installation instructions, please consult factory if poles are not selected 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.

VISIONAIRE LIGHTING

Performance In A Whole New Light

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Area

Element LED

51

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.
- The fixture end caps are die-cast aluminum and easily removable with captive fasteners for easy access to the LED drivers which are housed within the end-caps for cool operation.
- Silicone gasketing is utilized throughout the fixture for weathertight operation.

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. The **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 192 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.
- CRI values are 87 for 4000K and 72 for 5500K.

Quall-Guard® Finish

- A Quall-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 two set screws. A Round Pole Plate adaptor (RPP) is required for mounting to 4"-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 480v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for 40 °C operations.

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
- Round pole plate adaptor
- Controls
- Element conduit box

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™

EPA Data		LED Data Chart for 5500K*													
Fixture with Arm		# Bars	# LEDs	Output mW	Nominal Watts	Initial Lumens T1	Initial Lumens T2	Initial Lumens T3	Initial Lumens T4	Initial Lumens T5	System Watts 120-277	Hours @ 40 °C			
EL2-S		24	EL2-S EL2-1	350	25	2,021	2,109	1,774	2,020	2,356	28	200,000			
				530	35	2,520	2,841	2,439	2,684	3,030	39	120,000			
				700	50	2,995	3,377	2,952	3,030	3,675	58	70,000			
EL2-1	.6	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4			
EL2-2	.7	n/a	1.3	n/a	1.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a			
EL2-3	1.0	n/a	1.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a			

Scale: 1 Square = 28 ft
Initial Light Loss Factor = 1.00
Total Lumens Per Luminaire = 18,328
Mounting Height = 28 ft
Arrangement: Twin (back-to-back)

Horizontal Footcandles
Scale: 1 Inch = 25 Ft.
Light Loss Factor = 1.00
Lumens Per Lamp = N.A. (absolute photometry)
Luminaire Lumens = 8300
Mounting Height = 19.00 Ft
Maximum Calculated Value = 5.04 Fc
Arrangement: Single

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Calculations based on published IES Methods and recommendations.
Results derived from content of manufacturers photometric file.

PROJECT NAME:	RICHMOND
PROJECT NUMBER:	CMG PARK (31)
FILE NAME:	z97c186e105.dgn
PROJECT LEADER:	YASSER RIZK
DESIGNED BY:	M. STEWART
LIGHTING DETAILS SHEET	
PLOT DATE:	5/28/2013
DRAWN BY:	M. STEWART
CHECKED BY:	Y. RIZK
SHEET	115 OF 133