

# SETA2

ARCHITECTURAL AREA/SITE

## FEATURES

- TIR Strike Optics
- Patented low profile luminaire
- Available in Monochromatic Amber, 2700K, 3000K, 3500K, 4000K and 5000K
- Type 1, 2, 3, 4, 4W, 5W, 5QM, L, and R distributions
- 0 - 10V dimming drivers standard
- IP65 optical assembly



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- One piece die-cast housing, low copper (<0.6% Cu) Aluminum Alloy with integral cooling ribs over the optical chamber and electrical compartment
- Solid barrier wall separates optical and electrical compartments
- Double-thick wall with gussets on the support-arm mounting end
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail
- All hardware is stainless steel or electro-zinc plated steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange
- Optional clear 1/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimete
- Optional, fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens. CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance
- One-piece extruded aluminum arm with internal bolt guides and fully radiussed top and bottom
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief

### CONSTRUCTION (CONTINUED)

- Arm is circular cut for specified round pole
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate

### OPTICS

- Optical cartridge system consisting of a die cast heat sink, LED Total Internal Reflection (TIR) optics, gasket and bezel plate
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs
- Optional BackLight Control for complete control of unwanted backlight
- IP65 Optical assembly
- Type 1, 2, 3, 4, 4W, 5W, 5QM, R, and L standard distributions
- Available in Monochromatic Amber, 2700K, 3000K, 3500K, 4000K and 5000K
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level
- Anodized aluminum heat sink modules

### INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

# Entablature®



## RELATED PRODUCTS

- [Ouro](#)
- [Pavilion](#)
- [PGL8](#)

### ELECTRICAL

- Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile
- Surge protection: 10kV surge suppression
- SF for 120, 277, 347 Line volts  
DF for 208, 240, 480 Line volts

### CONTROLS

- 7-pin Receptacle and Button Photocell

### CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet location and 40°C ambient temperatures
- IDA approved, 3000K and warmer CCTs only
- RoHS compliant
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. [See Buy American Solutions](#)

### WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	2,496–11,138
Wattage Range	52.77–84.80
Efficacy Range (LPW)	46.5–131.4
Reported Life (Hours)	L70/60,000
Weight	21 lbs 9.5 kg
EPS Side View	1.0

**SETA2**

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**ORDERING GUIDE**

**Example:** 1SA-SETA2-54L-400-35K8-3-CLR-SQ-UNV-BLT-7PR-SF-A4

CATALOG #

Mounting		Model	LED Engine	CCT/CRI <sup>6</sup>		Distribution		Lens Options		House Side Shield
<b>1SA</b>	Single Arm Mount	<b>SETA2</b> Entablature 2.0 Small Fixture	<b>27L-600</b> 27 LEDs - 5,500 Lumens	<b>AM<sup>1</sup></b> Monochromatic Amber	<b>1</b> Type I	<b>(Blank)</b> No Lens <b>CLR</b> Clear Glass Lens <b>CP</b> Clear Polycarbonate Lens		<b>BC<sup>7</sup></b> Backlight Control		
<b>1W</b>	Wall Mount		<b>54L-400</b> 54 LEDs - 7,500 Lumens	<b>27K8<sup>2</sup></b> 2700K, 80CRI	<b>2</b> Type II					
<b>HSF</b>	Horizontal Slipfitter		<b>54L-500</b> 54 LEDs - 9,000 Lumens	<b>27K9<sup>2</sup></b> 2700K, 90CRI	<b>3</b> Type III					
				<b>3K7</b> 3000K, 70CRI	<b>4</b> Type IV Forward					
				<b>3K8<sup>2</sup></b> 3000K, 80CRI	<b>4W</b> Type IV Wide					
				<b>3K9<sup>2</sup></b> 3000K, 90CRI	<b>5W</b> Type V Wide					
				<b>35K8<sup>2</sup></b> 3500K, 80CRI	<b>5QM</b> Type V Square Medium					
				<b>35K9<sup>2</sup></b> 3500K, 90CRI	<b>R</b> Corner Right					
				<b>4K7</b> 4000K, 70CRI	<b>L</b> Corner Left					
				<b>4K8<sup>2</sup></b> 4000K, 80CRI						
				<b>4K9<sup>2</sup></b> 4000K, 90CRI						
				<b>5K7</b> 5000K, 70CRI						
				<b>5K8<sup>2</sup></b> 5000K, 80CRI						
				<b>5K9<sup>2</sup></b> 5000K, 90CRI						

Mounting Options		Voltage	Fixture Finish	Photocell Options	Fuse Options	Optional Entablatures
<b>VSF<sup>8</sup></b>	Vertical Slipfitter Mount for 2" pipe tenon (2-3/8" O.D. x 4" LONG)	<b>UNV</b> 120-277V	<b>BLS</b> Black Gloss Smooth	<b>7PR</b> 7-Pin Photocell Receptacle	<b>SF</b> Single Fuse 120, 277, 347 Line Volts	<b>A1</b> Arch
<b>SVSF<sup>8</sup></b>	Vertical Slipfitter Mount square for 2" pipe tenon (2-3/8" O.D. x 4" LONG)	<b>347</b> 347V	<b>BLT</b> Black Matte Textured	<b>PC</b> Button Photocell	<b>DF</b> Double Fuse 208, 240, 480 Line Volts	<b>A2</b> Broken Arch
<b>3</b>	Side Arm Mount 3" O.D. Pole	<b>480</b> 480V	<b>DBS</b> Dark Bronze Gloss Smooth			<b>A3</b> Stepped Arch
<b>3.5</b>	Side Arm Mount 3.5" O.D. Pole		<b>DBT</b> Dark Bronze Matte Textured			<b>A4</b> Stepped Brock Arch
<b>4</b>	Side Arm Mount 4" O.D. Pole		<b>GTT</b> Graphite Matte Textured			<b>A5</b> Standard Entablature
<b>5</b>	Side Arm Mount 5" O.D. Pole		<b>LGS</b> Light Grey Gloss Smooth			<b>P6</b> Peak
<b>6</b>	Side Arm Mount 6" O.D. Pole		<b>LGT</b> Light Grey Matte Textured			<b>P7</b> Broken Peak
<b>SQ</b>	Side Arm Mount Square Pole		<b>PSS</b> Platinum Silver Smooth			<b>P8</b> Stepped Peak
			<b>VGT</b> Verde Green Matte Textured			<b>P9</b> Stepped Broken Peak
			<b>WHS</b> White Gloss Smooth			<b>P10</b> Stepped
			<b>WHT</b> White Matte Textured			See Page 5 for details
			<b>Color Option</b>			
			<b>CC</b> Custom Color			

Control Options	Control Accessories <sup>3</sup>
<b>SCH-R</b> Round Pole Mounted (Occupancy Sensor up to 16' to 30')	<b>SW7PR<sup>4</sup></b> SiteSync with 7 pin PCR <b>SWUSB</b> SiteSync Software on USB
<b>SCH-S</b> Square Pole Mounted (Occupancy Sensor up to 16' to 30')	<b>SWTAB<sup>5</sup></b> SiteSync Windows Tablet <b>SWBRG</b> SiteSync Wireless Bridge Node <b>WIR-RME-L</b> wiSCAPE 7-pin Module <b>NXOFM-1R1D-UNV</b> NX 7-pin Module

Notes:

- Turtle Friendly.
- See Lumen Multiplier chart on [Page 13](#) for lumen scaling factor. Consult factory for additional details.
- Not available with other sensor or wireless control options
- Specify group and zone at time of order, See [www.hubbellighting.com/sitesync](http://www.hubbellighting.com/sitesync) for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
- Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries
- 5-step MacAdam Ellipse Binning is standard. Consult factory for 3-step MacAdam Ellipse Binning
- Not available with 5QM and 5W distributions
- For all arm configurations, please refer to [page 4](#) VSF/SVSF options ordered separately.

# SETA2

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## SPECIFICATIONS (CONTINUED)

### CONTROLS

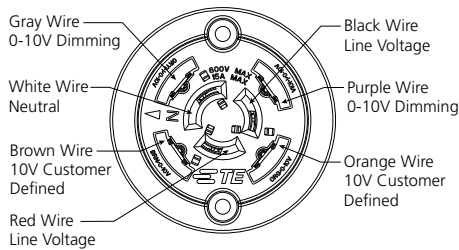
#### BUTTON PHOTOCELL

- Factory installed photocell inside housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others

#### 7PR

- Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others
- Standard customer operation modes:
  1. Traditional on/off photoelectric control
  2. 5-pin wireless photoelectric control for added dimming feature
  3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use

Photocell receptacle wiring diagram

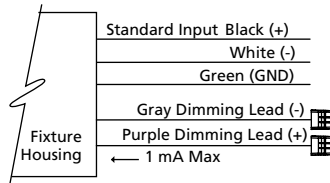


#### NX DISTRIBUTED INTELLIGENCE™

- Hubbell Control Solutions' NX Distributed Intelligence™ lighting control platform utilizes a Distributed Network Architecture (DNA) that connects intelligent devices including luminaires, controllers, panels, occupancy sensors, photocells, wall switches and dimmers, creating a system with an unmatched level of reliability, scalability and simplicity.

#### DIMMING:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver



- Modular wiring harness in the service area provides user access to the dimming circuitry
- Dimming circuitry compatible with 0-10V, user-defined control devices
- Optional factory programmed dimming profile

#### POLE MOUNTED

##### ROUND POLE-MOUNTED OCCUPANCY

##### SENSOR UP TO 30'

##### SCH-R

- Round Pole Mounted Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to the pole. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for round pole mounting. Pole diameter needed. Pole to be drilled in the field with provided installation instructions
- Ordering Example: SCH-R4/277<sup>2</sup>/BL<sup>3</sup>

##### SQUARE POLE-MOUNTED OCCUPANCY

##### SENSOR UP TO 30'

##### SCH-S

- Square Pole Mounted Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to the pole. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for square pole mounting
- Ordering Example: SCH-S/277<sup>2</sup>/BL<sup>3</sup>

#### ASTRODIM

- AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times

#### OPTIONAL FUSING:

- SF for 120, 277, and 347 Line volts
- DF for 208, 240, and 480 Line volts
- High temperature fuse holders factory installed inside the fixture housing
- Fuse is included

#### CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

#### wiSCAPE™

- Hubbell Control Solution's wiSCAPE™ wireless control modules allow an individual fixture to be managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE modules provide on/off/dim control, external device input, alerts and metering.

#### WIR-RME-L

- wiSCAPE External Module, 120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

#### SITESYNC™<sup>1</sup>

- SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit [www.hubbellighting.com/products/sitesync](http://www.hubbellighting.com/products/sitesync) for more details

Notes:  
 1 Pole diameter  
 2 Voltage  
 3 Color

**SETA2**

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**PRODUCT EXCEPTIONS & DETAILS**

Configuration			EPA
	1A	1 Arm Side Mount	1.8
	1W	Single Wall Mount	n/a
	HSF	Horizontal Slipfitter	n/a

VSF/SVSF Configuration			
	1SA		3ST
	2SB		3SY
	2SL		4SC

**MOUNTING OPTIONS**

**SUPPORT ARM:**

- Die-cast, low copper aluminum alloy, with splice access cover
- Die-cast pole adaptor and an internal reinforcing plate are provided with a wire strain relief
- The arm adapter is square or circular cut for specified pole size and shape
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment

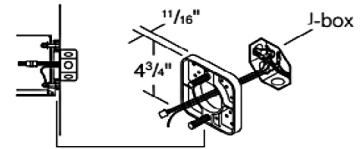
**OPTIONAL VERTICAL SLIP-FITTER (VSF/SVSF):**

- Internally accessible slip-fitter attaches to a 2-3/8" x 4" long tenon and allows hands-free wiring and maintenance
- Available for round and square poles



**WALL MOUNT**

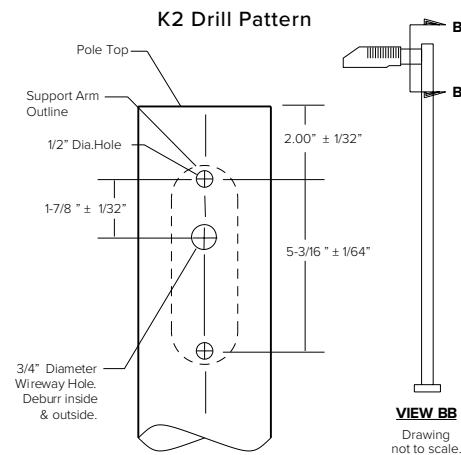
- Fixture mounts to 3" or 4" junction boxes by a cast aluminum adapter plate with fixture mounting bolts.
- **NOTE:** Junction box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16. Quick-disconnect plug and wiring are provided to allow field connections prior to fixture mounting.



Wall mount using adapter plate 3" or 4" J-box in wall (by others)

**Fixture Drilling Instructions:**

For AR, CC, CCS, and ET Fixtures



- For VSF arm configurations, please use 4". Mounting option on fixture ordering configuration. The optional VSF/SVSF will need to be ordered separately.
- SVSF use square configuration.

**Ordering example for round:**

- 2 SA/SETA2/54L-500/35K8/3/CLR/**4.00**/UNV/BLT
- 1 VSF-2SB

**Ordering example for square:**

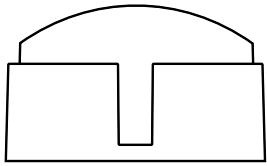
- 2 1SA/SETA2/54L-500/35K8/3/CLR/**SQ**/UNV/BLT

VSF	SVSF
VSF-1SA	SVSF-1SA
VSF-2SB	SVSF-2SB
VSF-2SL	SVSF-2SL
VSF-3ST	SVSF-3ST
VSF-3SY	SVSF-3SY
VSF-4SC	SVSF-4SC

**PRODUCT EXCEPTIONS & DETAILS**

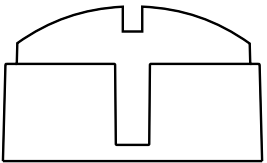
**OPTIONAL ENTABLATURES**

**ARCHED ENTABLATURES**



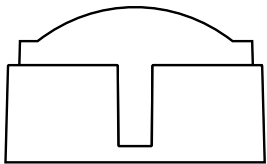
Arch

Cat. No. **A1**



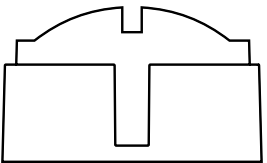
Broken Arch

Cat. No. **A2**



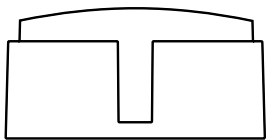
Stepped Arch

Cat. No. **A3**



Stepped Broken Arch

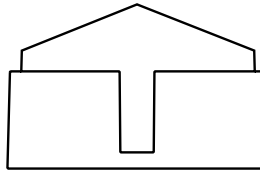
Cat. No. **A4**



Standard Entablature  
Follows fixture body profile

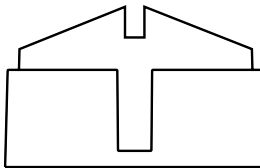
Cat. No. **A5**

**PEAKED ENTABLATURES**



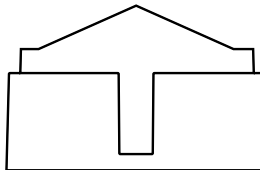
Peak

Cat. No. **P6**



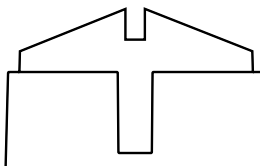
Broken Peak

Cat. No. **P7**



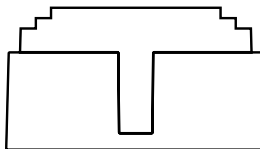
Stepped Peak

Cat. No. **P8**



Stepped Broken Peak

Cat. No. **P9**



Stepped

Cat. No. **P10**

**SETA2**

ARCHITECTURAL AREA/SITE

**DELIVERED LUMENS**

**NO LENS**

LED #	Nominal Lumen Package	Drive Current	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G	
27	5,500	600	1	5716	1	0	0	108.3	6137	1	0	0	116.3	6246	1	0	0	118.4
			1-BC	3260	0	0	0	61.8	3500	0	0	0	66.3	3562	0	0	0	67.5
			2	5369	1	0	1	101.7	5765	1	0	1	109.2	5867	1	0	1	111.2
			2-BC	3040	0	0	1	57.6	3264	0	0	1	61.9	3322	0	0	1	63.0
			3	5162	1	0	2	97.8	5543	1	0	2	105.0	5641	1	0	2	106.9
			3-BC	2871	0	0	1	54.4	3082	0	0	1	58.4	3137	0	0	1	59.4
			4	5434	1	0	2	103.0	5835	1	0	2	110.6	5938	1	0	2	112.5
			4-BC	3630	0	0	1	68.8	3898	0	0	1	73.9	3967	0	0	1	75.2
			4W	5034	1	0	2	95.4	5405	2	0	1	102.4	5501	1	0	2	104.2
			4W-BC	2948	0	0	1	55.9	3166	0	0	1	60.0	3222	0	0	1	61.1
			5W	5385	3	0	1	102.0	5782	3	0	1	109.6	5884	3	0	1	111.5
			5QM	5783	2	0	1	109.6	6209	2	0	1	117.7	6319	2	0	1	119.7
			R	5458	1	0	2	103.4	5860	1	0	2	111.0	5964	1	0	2	113.0
L	5458	1	0	2	103.4	5860	1	0	2	111.0	5964	1	0	2	113.0			
54	7,500	400	1	7861	1	0	1	116.8	8440	1	0	1	125.4	8590	1	0	1	127.6
			1-BC	4482	0	0	0	66.6	4813	0	0	0	71.5	4898	0	0	0	72.8
			2	7384	1	0	1	109.7	7928	1	0	2	117.8	8069	1	0	2	119.9
			2-BC	4180	0	0	1	62.1	4488	0	0	1	66.7	4568	0	0	1	67.9
			3	7099	1	0	2	105.5	7623	1	0	2	113.3	7758	1	0	2	115.3
			3-BC	3948	0	0	1	58.7	4239	0	0	1	63.0	4314	0	0	1	64.1
			4	7474	1	0	2	111.0	8025	1	0	2	119.2	8167	1	0	2	121.3
			4-BC	4993	0	0	2	74.2	5361	0	0	2	79.6	5456	0	0	1	81.1
			4W	6924	1	0	2	102.9	7434	1	0	2	110.4	7566	1	0	2	112.4
			4W-BC	4056	0	0	1	60.3	4355	0	0	2	64.7	4432	0	0	2	65.8
			5W	7406	3	0	1	110.0	7952	3	0	2	118.1	8093	3	0	2	120.2
			5QM	7952	3	0	1	118.1	8539	3	0	1	126.9	8690	3	0	1	129.1
			R	7507	1	0	2	111.5	8060	1	0	2	119.7	8203	1	0	2	121.9
	L	7507	1	0	2	111.5	8060	1	0	2	119.7	8203	1	0	2	121.9		
	9,000	500	1	10074	1	0	1	118.8	10817	1	0	1	127.6	11009	1	0	1	129.8
			1-BC	5745	0	0	0	67.8	6169	0	0	0	72.8	6278	0	0	0	74.0
			2	9463	1	0	2	111.6	10161	2	0	2	119.8	10341	2	0	2	122.0
			2-BC	5358	0	0	1	63.2	5753	0	0	1	67.8	5855	0	0	1	69.1
			3	9099	1	0	2	107.3	9770	1	0	2	115.2	9943	1	0	2	117.3
			3-BC	5060	0	0	2	59.7	5433	0	0	2	64.1	5529	0	0	2	65.2
			4	9578	1	0	2	113.0	10285	1	0	2	121.3	10467	1	0	2	123.4
			4-BC	6399	0	0	2	75.5	6871	0	0	2	81.0	6993	0	0	2	82.5
			4W	8874	1	0	2	104.7	9528	3	0	1	112.4	9697	1	0	2	114.4
4W-BC			5198	0	0	2	61.3	5581	0	0	2	65.8	5680	0	0	2	67.0	
5W	9492	3	0	2	111.9	10191	3	0	2	120.2	10372	3	0	2	122.3			
5QM	10193	3	0	1	120.2	10944	3	0	1	129.1	11138	3	0	1	131.4			
R	9621	1	0	2	113.5	10330	2	0	2	121.8	10513	2	0	2	124.0			
L	9621	1	0	2	113.5	10330	2	0	2	121.8	10513	2	0	2	124.0			

**SETA2**

ARCHITECTURAL AREA/SITE

**DELIVERED LUMENS (CONTINUED)**

**CLR LENS**

LED #	Nominal Lumen Package	Drive Current	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G	
27	5,500	600	1	4970	1	0	0	94.2	5336	1	0	0	101.1	5430	1	0	0	102.9
			1-BC	2834	0	0	0	53.7	3043	0	0	0	57.7	3097	0	0	0	58.7
			2	4668	1	0	1	88.5	5012	1	0	1	95.0	5101	1	0	1	96.7
			2-BC	2643	0	0	0	50.1	2838	0	0	1	53.8	2888	0	0	1	54.7
			3	4488	1	0	1	85.0	4819	1	0	1	91.3	4904	1	0	1	92.9
			3-BC	2496	0	0	1	47.3	2680	0	0	1	50.8	2727	0	0	1	51.7
			4	4724	1	0	2	89.5	5073	1	0	2	96.1	5168	1	0	2	97.9
			4-BC	3156	0	0	1	59.8	3389	0	0	1	64.2	3449	0	0	1	65.4
			4W	4377	1	0	2	82.9	4699	1	0	2	89.0	4783	1	0	2	90.6
			4W-BC	2563	0	0	1	48.6	2753	0	0	1	52.2	2801	0	0	1	53.1
			5W	4682	3	0	1	88.7	5027	3	0	1	95.3	5116	3	0	1	96.9
			5QM	5028	2	0	0	95.3	5398	2	0	1	102.3	5494	2	0	1	104.1
			R	4745	1	0	1	89.9	5095	1	0	1	96.6	5185	1	0	2	98.3
L	4745	1	0	1	89.9	5095	1	0	1	96.6	5185	1	0	2	98.3			
54	7,500	400	1	6834	1	0	1	101.5	7338	1	0	1	109.0	7468	1	0	1	110.9
			1-BC	3897	0	0	0	57.9	4184	0	0	0	62.2	4258	0	0	0	63.3
			2	6420	1	0	1	95.4	6893	1	0	1	102.4	7015	1	0	1	104.2
			2-BC	3634	0	0	1	54.0	3902	0	0	1	58.0	3971	0	0	1	59.0
			3	6172	1	0	2	91.7	6627	1	0	2	98.5	6745	1	0	2	100.2
			3-BC	3432	0	0	1	51.0	3685	0	0	1	54.7	3751	0	0	1	55.7
			4	6498	1	0	2	96.5	6977	1	0	2	103.7	7100	1	0	2	105.5
			4-BC	4341	0	0	2	64.5	4661	0	0	2	69.2	4743	0	0	2	70.5
			4W	6020	1	0	2	89.4	6463	1	0	2	96.0	6578	1	0	2	97.7
			4W-BC	3526	0	0	1	52.4	3786	0	0	1	56.2	3853	0	0	1	57.2
			5W	6439	3	0	1	95.7	6913	3	0	1	102.7	7036	3	0	1	104.5
			5QM	6913	2	0	1	102.7	7424	2	0	1	110.3	7555	3	0	1	112.2
			R	6527	1	0	2	97.0	7007	1	0	2	104.1	7132	1	0	2	106.0
	L	6527	1	0	2	97.0	7007	1	0	2	104.1	7132	1	0	2	106.0		
	9,000	500	1	8758	1	0	1	103.3	9404	1	0	1	110.9	9571	1	0	1	112.9
			1-BC	4995	0	0	0	58.9	5363	0	0	0	63.3	5458	0	0	0	64.4
			2	8227	1	0	2	97.0	8834	1	0	2	104.2	8990	1	0	2	106.0
			2-BC	4658	0	0	1	54.9	5002	0	0	1	59.0	5090	0	0	1	60.0
			3	7911	1	0	2	93.3	8494	1	0	2	100.2	8644	1	0	2	101.9
			3-BC	4399	0	0	1	51.9	4723	0	0	1	55.7	4807	0	0	1	56.7
			4	8327	1	0	2	98.2	8942	1	0	2	105.5	9100	1	0	2	107.3
			4-BC	5563	0	0	2	65.6	5974	0	0	2	70.5	6080	0	0	2	71.7
			4W	7715	1	0	2	91.0	8284	1	0	2	97.7	8431	1	0	2	99.4
4W-BC			4519	0	0	2	53.3	4852	0	0	2	57.2	4938	0	0	2	58.2	
5W	8252	3	0	2	97.3	8860	3	0	2	104.5	9017	3	0	2	106.3			
5QM	8862	3	0	1	104.5	9515	3	0	1	112.2	9683	3	0	1	114.2			
R	8365	1	0	2	98.7	8981	1	0	2	105.9	9140	1	0	2	107.8			
L	8365	1	0	2	98.7	8981	1	0	2	105.9	9140	1	0	2	107.8			

**SETA2**

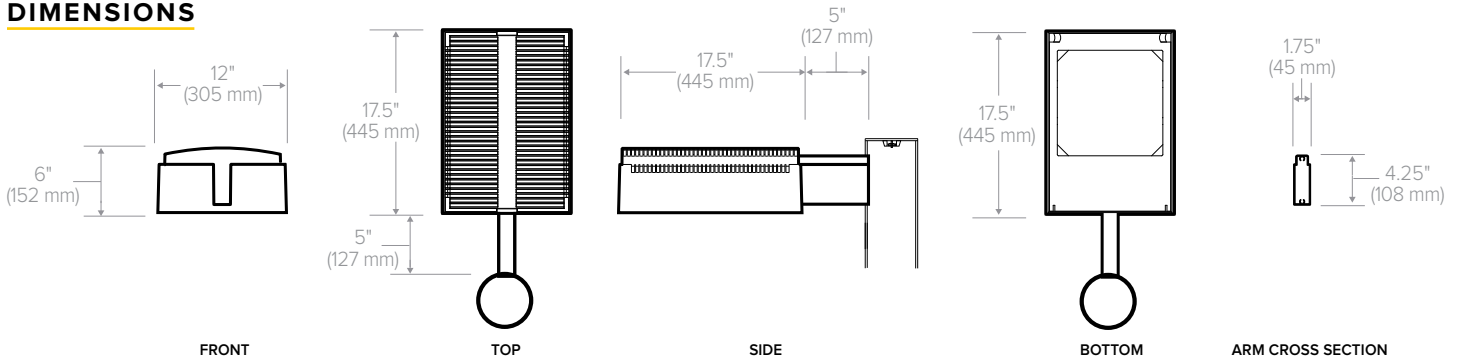
ARCHITECTURAL AREA/SITE

**DELIVERED LUMENS (CONTINUED)**

**PL LENS**

LED #	Nominal Lumen Package	Drive Current	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G	
27	5,500	600	1	4890	1	0	0	92.7	5250	1	0	0	99.5	5344	1	0	0	101.3
			1-BC	2789	0	0	0	52.9	2994	0	0	0	56.7	3047	0	0	0	57.7
			2	4593	1	0	1	87.0	4932	1	0	1	93.5	5019	1	0	1	95.1
			2-BC	2601	0	0	0	49.3	2792	0	0	0	52.9	2842	0	0	1	53.9
			3	4416	1	0	1	83.7	4742	1	0	1	89.9	4826	1	0	1	91.5
			3-BC	2456	0	0	1	46.5	2637	0	0	1	50.0	2684	0	0	1	50.9
			4	4649	1	0	2	88.1	4992	1	0	2	94.6	5080	1	0	2	96.3
			4-BC	3106	0	0	1	58.9	3335	0	0	1	63.2	3394	0	0	1	64.3
			4W	4307	1	0	2	81.6	4624	1	0	2	87.6	4706	1	0	2	89.2
			4W-BC	2522	0	0	1	47.8	2709	0	0	1	51.3	2756	0	0	1	52.2
			5W	4607	3	0	1	87.3	4947	3	0	1	93.7	5034	3	0	1	95.4
			5QM	4947	2	0	0	93.7	5312	2	0	0	100.7	5406	2	0	1	102.4
			R	4669	1	0	1	88.5	5013	1	0	1	95.0	5102	1	0	1	96.7
			L	4669	1	0	1	88.5	5013	1	0	1	95.0	5102	1	0	1	96.7
54	7,500	400	1	6725	1	0	1	99.9	7221	1	0	1	107.3	7349	1	0	1	109.2
			1-BC	3834	0	0	0	57.0	4118	0	0	0	61.2	4190	0	0	0	62.2
			2	6317	1	0	1	93.8	6783	1	0	1	100.8	6903	1	0	1	102.6
			2-BC	3576	0	0	1	53.1	3840	0	0	1	57.0	3908	0	0	1	58.1
			3	6073	1	0	2	90.2	6522	1	0	2	96.9	6637	1	0	2	98.6
			3-BC	3378	0	0	1	50.2	3627	0	0	1	53.9	3691	0	0	1	54.8
			4	6394	1	0	2	95.0	6866	1	0	2	102.0	6987	1	0	2	103.8
			4-BC	4272	0	0	2	63.5	4586	0	0	2	68.1	4668	0	0	2	69.4
			4W	5924	1	0	2	88.0	6360	1	0	2	94.5	6473	1	0	2	96.2
			4W-BC	3470	0	0	1	51.6	3726	0	0	1	55.4	3792	0	0	1	56.3
			5W	6336	3	0	1	94.1	6803	3	0	1	101.1	6924	3	0	1	102.9
			5QM	6803	2	0	1	101.1	7305	2	0	1	108.5	7434	2	0	1	110.4
			R	6422	1	0	2	95.4	6895	1	0	2	102.4	7018	1	0	2	104.3
			L	6422	1	0	2	95.4	6895	1	0	2	102.4	7018	1	0	2	104.3
	9,000	500	1	8618	1	0	1	101.6	9254	1	0	1	109.1	9418	1	0	1	111.1
			1-BC	4915	0	0	0	58.0	5278	0	0	0	62.2	5371	0	0	0	63.3
			2	8096	1	0	2	95.5	8693	1	0	2	102.5	8847	1	0	2	104.3
			2-BC	4584	0	0	1	54.1	4922	0	0	1	58.0	5009	0	0	1	59.1
			3	7784	1	0	2	91.8	8358	1	0	2	98.6	8506	1	0	2	100.3
			3-BC	4329	0	0	1	51.1	4648	0	0	1	54.8	4730	0	0	1	55.8
			4	8194	1	0	2	96.6	8799	1	0	2	103.8	8955	1	0	2	105.6
			4-BC	5474	0	0	2	64.6	5878	0	0	2	69.3	5983	0	0	2	70.6
4W			7592	1	0	2	89.5	8151	1	0	2	96.1	8296	1	0	2	97.8	
4W-BC			4447	0	0	2	52.4	4775	0	0	2	56.3	4859	0	0	2	57.3	
5W	8121	3	0	2	95.8	8719	3	0	2	102.8	8873	3	0	2	104.6			
5QM	8720	3	0	1	102.8	9363	3	0	1	110.4	9529	3	0	1	112.4			
R	8231	1	0	2	97.1	8837	1	0	2	104.2	8994	1	0	2	106.1			
L	8231	1	0	2	97.1	8837	1	0	2	104.2	8994	1	0	2	106.1			

**DIMENSIONS**





# SETA2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

ET2-54L-750-4K7-1

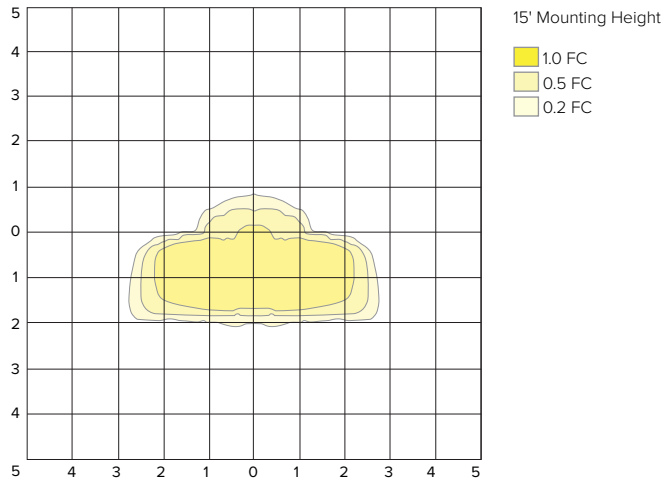
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>6139</b>
Watts	<b>52.77</b>
Efficacy	<b>116.3</b>
IES Type	<b>1</b>
BUG Rating	<b>B1-U0-G0</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	5454	88.8%
Downward House Side	686	11.2%
Downward Total	6139	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	6139	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-1-BC

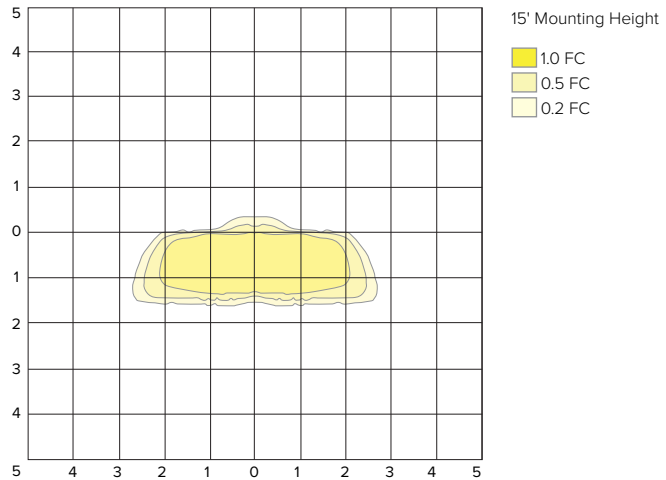
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>3503</b>
Watts	<b>52.77</b>
Efficacy	<b>66.4</b>
IES Type	<b>1-BC</b>
BUG Rating	<b>B0-U0-G0</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3435	98.0%
Downward House Side	69	2.0%
Downward Total	3503	99.9%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3503	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-2

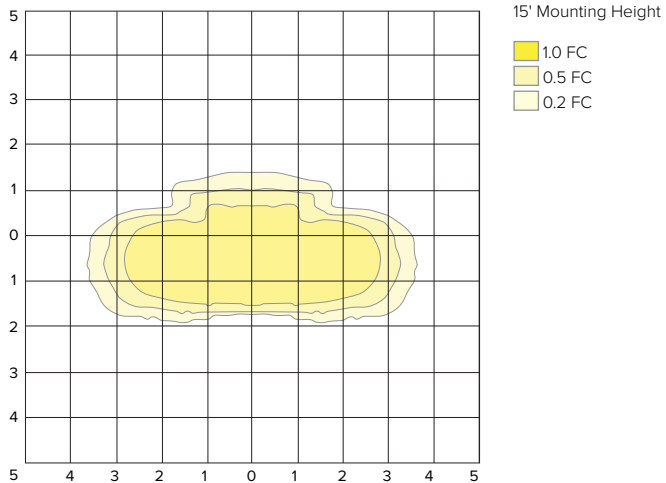
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>5767</b>
Watts	<b>52.77</b>
Efficacy	<b>109.3</b>
IES Type	<b>2</b>
BUG Rating	<b>B1-U0-G1</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4760	82.5%
Downward House Side	1007	17.5%
Downward Total	5767	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5767	100%

### ISOFOOT CANDLE PLOT



# SETA2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

ET2-54L-750-4K7-2-BC

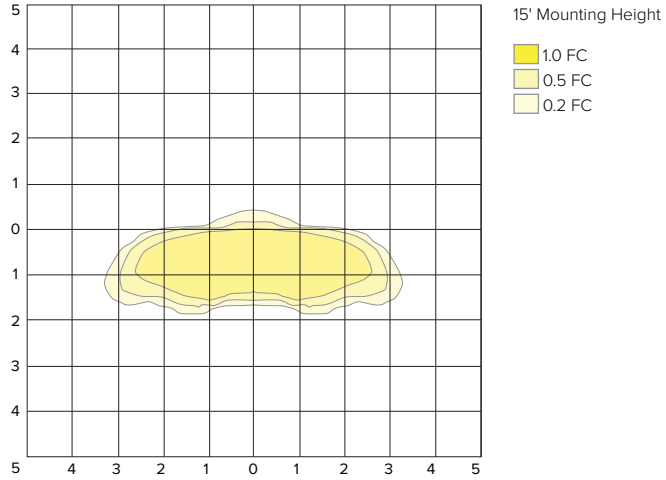
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3266
Watts	52.77
Efficacy	61.9
IES Type	2-BC
BUG Rating	B0-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3193	97.7%
Downward House Side	74	2.2%
Downward Total	3266	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3266	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-3

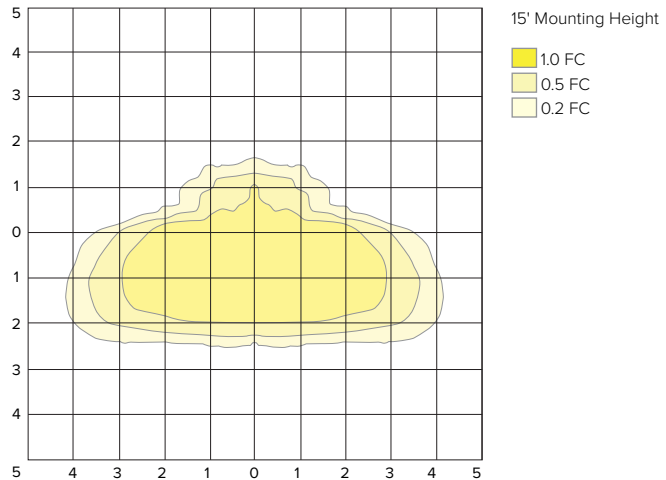
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	5544
Watts	52.77
Efficacy	105.1
IES Type	3
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4772	86.1%
Downward House Side	772	13.9%
Downward Total	5544	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5544	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-3-BC

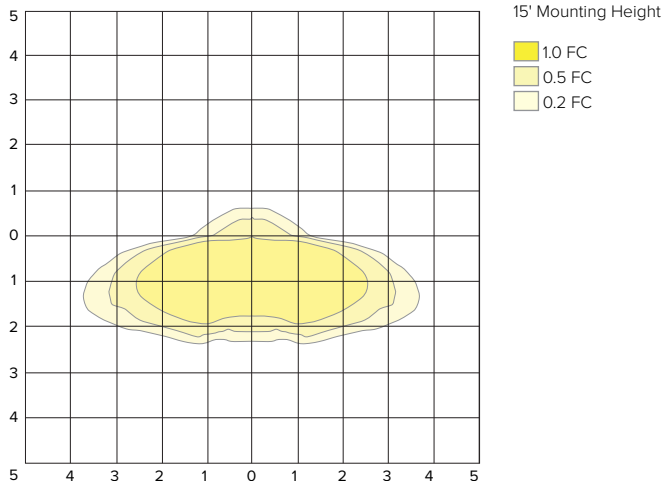
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3084
Watts	52.77
Efficacy	58.4
IES Type	3-BC
BUG Rating	B0-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2990	96.9%
Downward House Side	94	3.0%
Downward Total	3084	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3084	100%

### ISOFOOT CANDLE PLOT



# SETA2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

ET2-54L-750-4K7-4

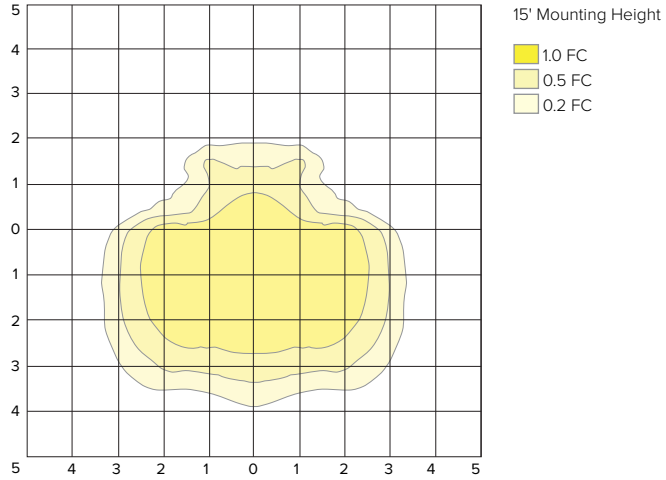
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	5835
Watts	52.77
Efficacy	110.6
IES Type	4
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	5058	86.7%
Downward House Side	777	13.3%
Downward Total	5835	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5835	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-4-BC

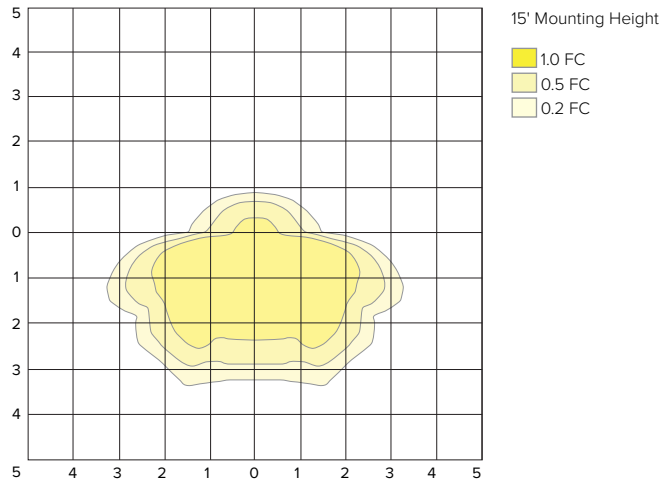
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3900
Watts	52.77
Efficacy	73.9
IES Type	4-BC
BUG Rating	B0-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3678	94.3%
Downward House Side	222	5.7%
Downward Total	3900	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3900	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-4W

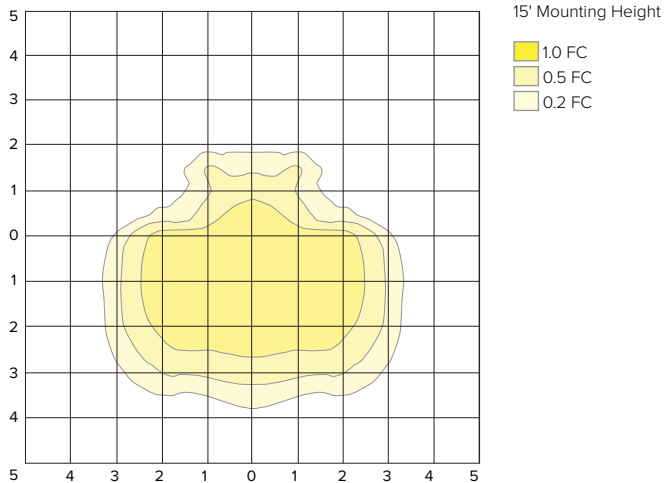
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	5408
Watts	52.77
Efficacy	102.5
IES Type	4
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4687	86.7%
Downward House Side	721	13.3%
Downward Total	5408	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5408	100%

### ISOFOOT CANDLE PLOT



# SETA2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

ET2-54L-750-4K7-4W-BC

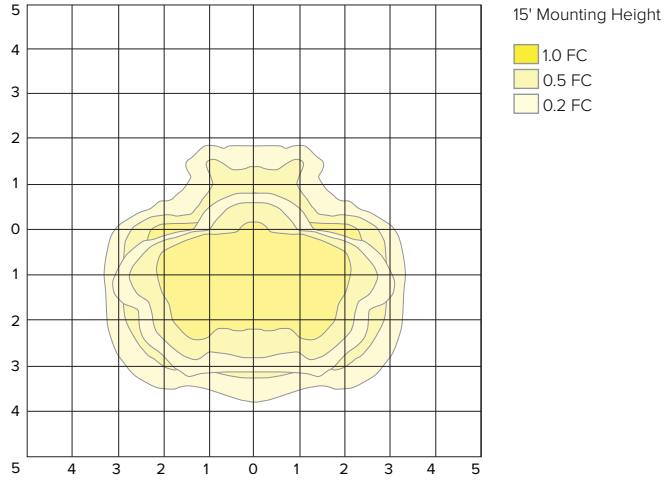
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3168
Watts	52.77
Efficacy	60.0
IES Type	4W-BC
BUG Rating	B0-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2988	94.3%
Downward House Side	180	5.7%
Downward Total	3168	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3168	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-5QM

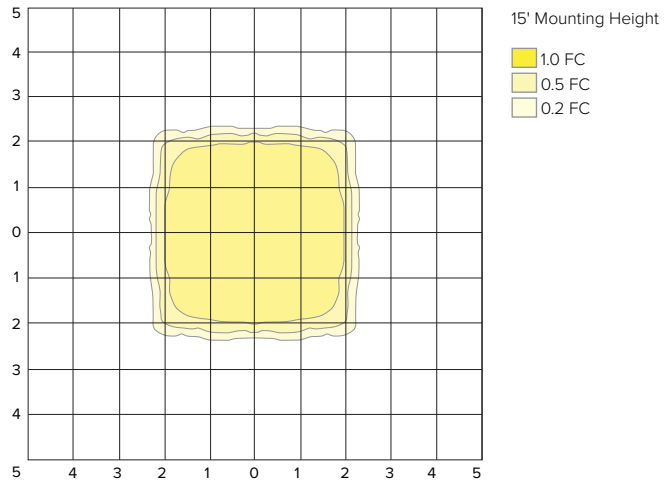
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	6210
Watts	52.77
Efficacy	117.7
IES Type	5
BUG Rating	B2-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3105	50.0%
Downward House Side	3105	50.0%
Downward Total	6210	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	6210	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-5W

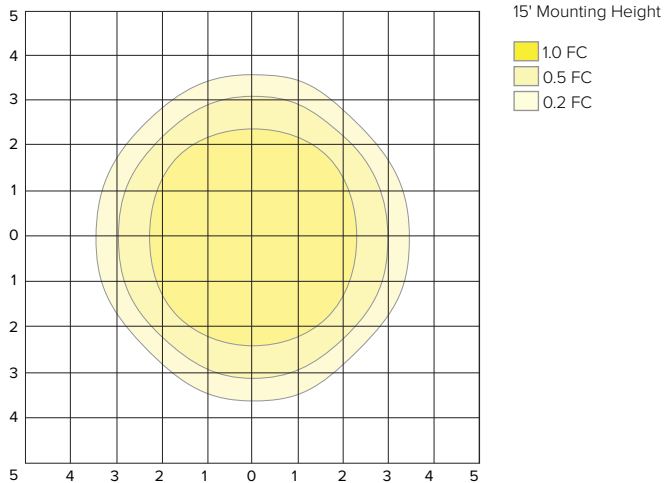
### LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	5782
Watts	52.77
Efficacy	109.6
IES Type	5
BUG Rating	B3-U0-G1
Mounting Height	15 ft
Grid Scale	10 ft

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2891	50.0%
Downward House Side	2891	50.0%
Downward Total	5782	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5782	100%

### ISOFOOT CANDLE PLOT



# SETA2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

ET2-54L-750-4K7-R

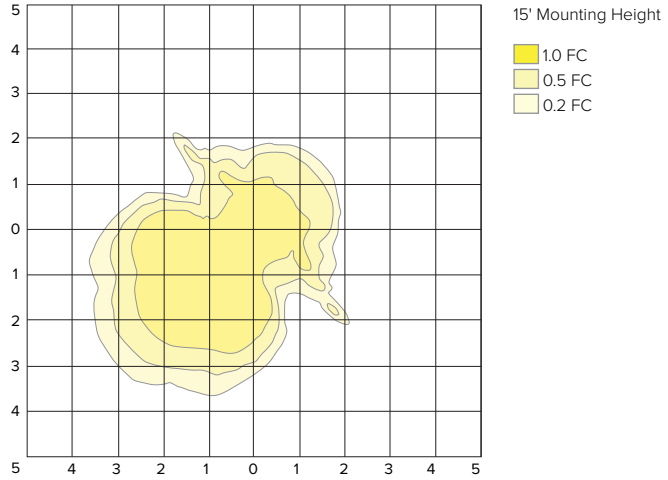
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>5859</b>
Watts	<b>52.77</b>
Efficacy	<b>111.0</b>
IES Type	<b>R</b>
BUG Rating	<b>B1-U0-G2</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4832	82.5%
Downward House Side	1027	17.5%
Downward Total	5859	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5859	100%

### ISOFOOT CANDLE PLOT



ET2-54L-750-4K7-L

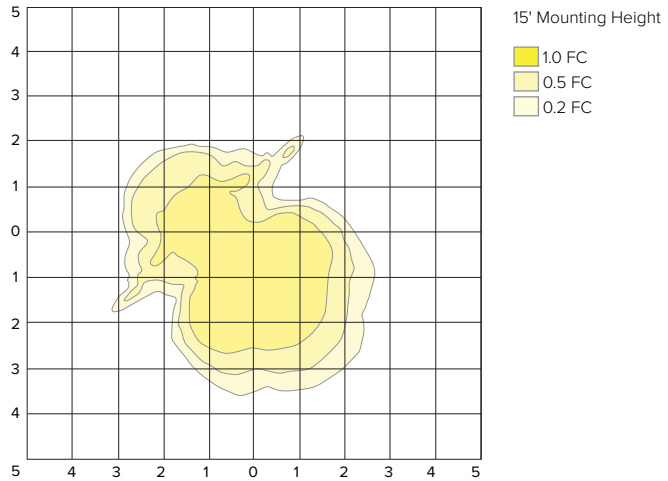
### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>5859</b>
Watts	<b>52.77</b>
Efficacy	<b>111.0</b>
IES Type	<b>L</b>
BUG Rating	<b>B1-U0-G2</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>10 ft</b>

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4969	84.8%
Downward House Side	890	15.2%
Downward Total	5859	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	5859	100%

### ISOFOOT CANDLE PLOT

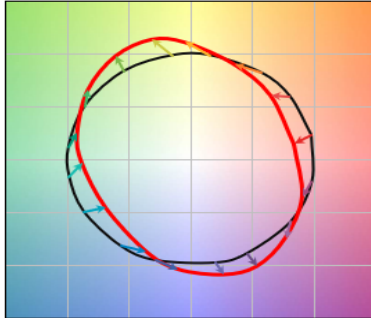


**SETA2**

ARCHITECTURAL AREA/SITE

**TM-30 DATA**

**COLOR VECTOR GRAPHIC**

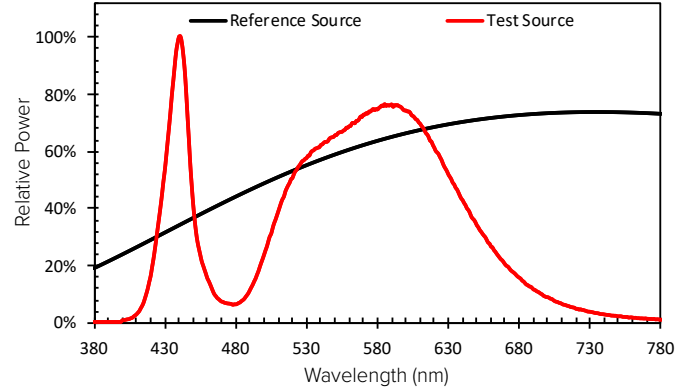


— Reference Illuminant — Test Source

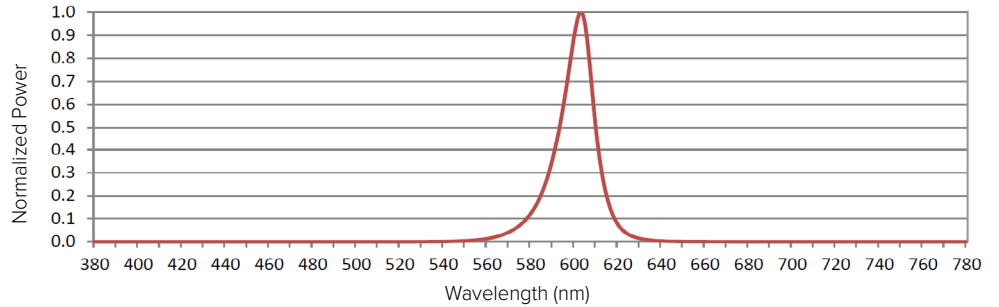
**TEST SOURCE**

R <sub>f</sub>	68
R <sub>g</sub>	99
CCT(K)	3947
D <sub>uv</sub>	0.0004
x	0.3831
y	0.3793
CIE R <sub>a</sub>	72

**SPECTRAL POWER DISTRIBUTION COMPARISON**



**AMBER SPECTRAL POWER DISTRIBUTION**



**ELECTRICAL DATA**

LED Count	System Watts	Current	Line Voltage		Amps AC						Min Power Factor	Max. THD (%)	Dimming				
			VAC	Hz	120	208	240	277	347	480			Dimming Range	Source Current Out		Absolute Voltage	
														Min	Max	Min	Max
27 LEDs	52.77	600 mA	120-480	50/60	0.44	0.25	0.22	0.19	0.15	0.11	>0.9	20	10% to 100%	0mA	1mA	0V	10V
54 LEDs	67.31	400 mA			0.56	0.32	0.28	0.24	0.19	0.14							
	84.80	500 mA			0.71	0.41	0.35	0.31	0.24	0.18							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
Ambient Temp.	0	25,000	36,000	50,000	100,000	Reported L70
25°C / 77°F	100%	98.03%	96.92%	95.52%	90.69%	>60khrs

CRI Lumen Multiplier for 80 and 90 CRI		
CCT	80 CRI	90 CRI
2700K	0.859	0.655
3000K	0.919	.7033
3500K	0.906	0.732
4000K	0.8941	.734
5000K	0.879	.7712
Scaling factor of 5000K 70CRI lumen packages		