

## EALS Series

### LED Outdoor Area Light



Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_

The **EALS** Area Light luminaire offers a wide range of optical patterns, color temperatures, lumen packages and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same form-factor. They are ideal for commercial property site-lighting applications such as retail and commercial exteriors.

### CONSTRUCTION

<b>Housing:</b>	Aluminum die cast enclosure. Integral heat sink for maximum heat transfer
<b>Lens:</b>	Impact resistant tempered glass
<b>Paint:</b>	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White (RAL & custom colors available) Optional = Coastal Finish
<b>Weight:</b>	27 lbs

### OPTICAL SYSTEM

<b>Lumens:</b>	7,000 - 30,300
<b>Photometry:</b>	Type II, III, IV & V
<b>Efficacy:</b>	126 - 160 LPW
<b>CCT:</b>	3000K, 4000K, 5000K
<b>CRI:</b>	≥70
<b>Upward Light Output Ration (ULOR):</b>	0 Horizontal Orientation

### ELECTRICAL

<b>Input Voltage:</b>	120-277V, 277-480V & 347-480V
<b>Input Frequency:</b>	50/60 Hz
<b>Power Factor (PH):</b>	> 90% at rated watts
<b>Total Harmonic Distortion (THD):</b>	< 20% at rated watts

### SURGE PROTECTION

TYPICAL (120 STRIKES)		
6kV/3kA*	10kV/5kA*	20kV/10kA*

\*Per ANSI C136.2-2015

### LUMEN MAINTENANCE

Projected Lxx per IES TM-21-11 at 25°C

Optics	LXX(10K) @ Hours		
	25,000 HR	50,000 HR	60,000 HR
C2, C3, C4, C5, D2, D3, D4, D5	L96	L92	L91
F5, H2, H3, H4, H5	L95	L93	L92
F2, F3, F4, J3, J4, J5	L95	L93	L92
K2, K3, K4, K5	L95	L93	L92

Note: Projected Lxx based on LM80 (= 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements

### LUMINAIRE AMBIENT TEMPERATURE FACTOR

Ambient Temp (°C)	Initial Flux Factor	Ambient Temp (°C)	Initial Flux Factor
10	1.02	30	0.99
20	1.01	40	0.98
25	1.00		

### RATINGS

<b>Operating Temperature:</b>	-40° C to 40° C
<b>Vibration:</b>	3G per ANSI C136.31-2010
<b>LM-79:</b>	Testing in accordance with IESNA Standards

### CONTROLS

<b>Dimming:</b>	Standard - 0-10V Optional - DALI (Option U)
<b>Sensors:</b>	Photo Electric Sensors (PE) available LightGrid and Daintree Compatible

### WARRANTY

5 Year (Standard)

10 Year (Optional)



## Ordering Information

EALS 03

7

PRODUCT ID	GENERATION	VOLTAGE	OPTICAL CODE	DISTRIBUTION	CRI	CCT	DIMMING <sup>2</sup>	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E= Evolve	03	0 <sup>1</sup> =120-277	Cx = 7500	SM = Symmetric Medium	7 = 70 (min)	30 <sup>11</sup> = 3000K	N <sup>13</sup> = Dimming thru PE receptacle	1 = None	C1 <sup>4</sup> = Integral Slipfitter: Standard	BLCK = Black	F = Fusing
AL= Area Light		H <sup>1</sup> = 347-480V	Dx = 10000	SW = Symmetric Wide		40 = 4000K	D <sup>13</sup> = External Dimming 18/2 3 ft Cable	A = ANSI C136.41 7-Pin Receptacle (No Control)	D1 <sup>5</sup> = Universal Mounting Arm: Fitted for round or square pole mounting	DKBZ = Dark Bronze	H <sup>8</sup> = Motion Sensor (Sensor Switch)
S = Standard		E <sup>19</sup> = 277-480	Fx = 15000	SH = Symmetric High Angle		50 = 5000K	X <sup>14</sup> = Non dimming, no external dimming leads	D = ANSI C136.417-Pin Receptacle with Shorting Cap	K1 <sup>4,6</sup> = Knuckle Slipfitter: For 1.9 in. - 2.3 in OD Tenon	GRAY = Gray	H1 = LightGrid w/ WattStopper
			Hx = 20000	AF = Asymmetric Forward				E <sup>3</sup> = ANSI C136.41 7-pin with Non-Dimming PE Control	S1 <sup>4,6</sup> = Knuckle Slipfitter: For 2.3 in. - 3.0 in OD Tenon	WHITE = White	H2 <sup>8</sup> = Daintree enabled motion sensor
		1 = 120	Jx = 25000	AH = Asymmetric High Angle					V1 <sup>4,6</sup> = Knuckle Wall Mount		H4 = Motion Sensor (WattStopper)
		2 = 208	Kx = 30000	AW = Asymmetric Wide							J = cUL/Canada
		3 = 240		AN = Asymmetric Narrow/Auto							L = Tool-Less Entry
		4 = 277									R = Enhanced Surge Protection (10kV/5kA)
		D = 347									S1 <sup>12</sup> = Rotated Left
		5 = 480									S2 <sup>12</sup> = Rotated Right
											T = Extreme Surge Protection (20kV/10kA)
											U <sup>7,8</sup> = DALI Programmable
											V = 3 Position Terminal Block
											Y <sup>10</sup> = Coastal Finish
											XXX = Special Options

<sup>1</sup> Not Available with Fusing. Must Choose a Discrete Voltage with "F" Option Code

<sup>2</sup> Note Standard Dimming is 0-10V

<sup>3</sup> PE Control only available for 120-277V, 347V or 480V Discrete Voltage.

<sup>4</sup> Supplied with 3ft leads

<sup>5</sup> Supplied with 16/3 ft Cable

<sup>6</sup> Restricted Aiming Angle of 0-45°

<sup>7</sup> Compatible with LightGrid Wireless Control Nodes, Not Compatible with Motion Sensor Control

<sup>8</sup> Not available in 347V, 480V or 347-480V

<sup>9</sup> Only available with H, J & K optics

<sup>10</sup> Recommended for installations within 750 feet from coast. Lead time varies, check with factory.

<sup>11</sup> Select 3000K CCT for IDA approved fixtures.

<sup>12</sup> For aimed left of right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric Distributions

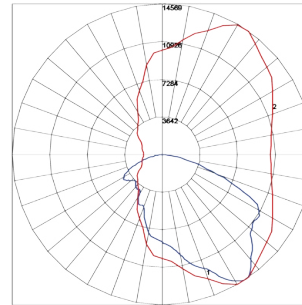
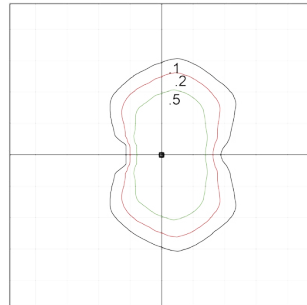
<sup>13</sup> Can only be ordered with controls A, D, and E

<sup>14</sup> Required for Cx optical codes only, not available for other optic codes

TYPE	OPTIC CODE	DISTRIBUTION	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE	BUG RATINGS	
			3000K	4000K & 5000K	120-277 & 347-480V	3000K	4000 & 5000K
						B-U-G	B-U-G
TYPE V	C5	Symmetric Medium (SM)	7300	7500	46	B3-U0-G1	B3-U0-G1
	D5	Symmetric Medium (SM)	9800	10000	64	B3-U0-G1	B3-U0-G1
	F5	Symmetric Medium (SM)	14700	15000	101	B4-U0-G2	B4-U0-G2
	H5	Symmetric Medium (SM)	19600	20000	140	B4-U0-G2	B4-U0-G2
	J5	Symmetric Medium (SM)	24500	25000	186	B4-U0-G2	B4-U0-G2
	K5	Symmetric Medium (SM)	29400	30000	239	B5-U0-G3	B5-U0-G3
	C5	Symmetric Wide (SW)	7300	7500	46	B2-U0-G1	B2-U0-G1
	D5	Symmetric Wide (SW)	9800	10100	64	B3-U0-G1	B3-U0-G1
	F5	Symmetric Wide (SW)	14700	15100	101	B3-U0-G2	B3-U0-G2
	H5	Symmetric Wide (SW)	19700	20200	140	B4-U0-G2	B4-U0-G2
	J5	Symmetric Wide (SW)	24600	25200	186	B4-U0-G2	B4-U0-G2
	K5	Symmetric Wide (SW)	29600	30300	239	B5-U0-G2	B5-U0-G2
	C5	Symmetric High Angle (SH)	7000	7200	46	B3-U0-G1	B3-U0-G1
	D5	Symmetric High Angle (SH)	9400	9600	64	B3-U0-G2	B3-U0-G2
	F5	Symmetric High Angle (SH)	14200	14500	101	B4-U0-G2	B4-U0-G2
	H5	Symmetric High Angle (SH)	18900	19300	140	B4-U0-G2	B4-U0-G2
J5	Symmetric High Angle (SH)	23600	24100	186	B5-U0-G3	B5-U0-G3	
K5	Symmetric High Angle (SH)	28400	29000	239	B5-U0-G3	B5-U0-G3	
TYPE IV	C4	Asymmetric Forward (AF)	7300	7500	50	B1-U0-G2	B1-U0-G2
	D4	Asymmetric Forward (AF)	9800	10000	70	B2-U0-G2	B2-U0-G2
	F4	Asymmetric Forward (AF)	14700	15000	116	B2-U0-G2	B2-U0-G2
	H4	Asymmetric Forward (AF)	19600	20000	140	B3-U0-G3	B3-U0-G3
	J4	Asymmetric Forward (AF)	24500	25000	186	B3-U0-G3	B3-U0-G3
	K4	Asymmetric Forward (AF)	29400	30000	239	B3-U0-G4	B3-U0-G4
	C4	Asymmetric High Angle (AH)	7000	7200	50	B2-U0-G2	B2-U0-G2
	D4	Asymmetric High Angle (AH)	9400	9600	70	B2-U0-G2	B2-U0-G2
	F4	Asymmetric High Angle (AH)	14200	14500	116	B3-U0-G3	B3-U0-G3
	H4	Asymmetric High Angle (AH)	18900	19300	140	B3-U0-G3	B3-U0-G4
J4	Asymmetric High Angle (AH)	23600	24100	186	B3-U0-G4	B3-U0-G4	
K4	Asymmetric High Angle (AH)	28400	29000	239	B3-U0-G4	B3-U0-G4	
TYPE III	C3	Asymmetric Wide (AW)	7300	7500	50	B2-U0-G1	B2-U0-G1
	D3	Asymmetric Wide (AW)	8900	10100	70	B2-U0-G2	B2-U0-G2
	F3	Asymmetric Wide (AW)	14700	15100	116	B2-U0-G2	B2-U0-G2
	H3	Asymmetric Wide (AW)	19800	20200	140	B3-U0-G2	B3-U0-G3
	J3	Asymmetric Wide (AW)	24600	25200	186	B3-U0-G3	B3-U0-G3
	K3	Asymmetric Wide (AW)	29600	30300	239	B3-U0-G3	B3-U0-G3
TYPE II	C2	Asymmetric Narrow/Auto (AN)	7300	7500	50	B3-U0-G2	B2-U0-G2
	D2	Asymmetric Narrow/Auto (AN)	9800	10100	70	B2-U0-G2	B2-U0-G2
	F2	Asymmetric Narrow/Auto (AN)	14700	15100	116	B2-U0-G2	B3-U0-G3
	H2	Asymmetric Narrow/Auto (AN)	19700	20200	140	B3-U0-G3	B3-U0-G3
	J2	Asymmetric Narrow/Auto (AN)	24600	25200	186	B3-U0-G3	B3-U0-G3
	K2	Asymmetric Narrow/Auto (AN)	29600	30300	239	B3-U0-G3	B3-U0-G3

For additional information on EALS files, please click one of the following links:

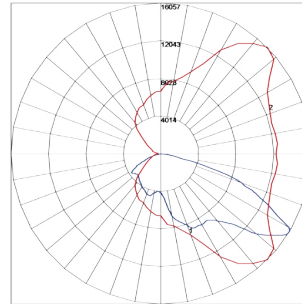
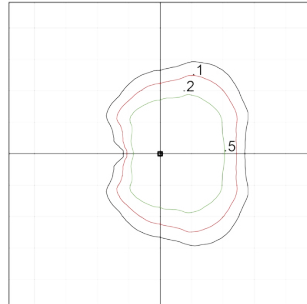
**EALS03**  
**ASYMMETRIC NARROW**  
**(K2AN750)**  
**30300 Lumens**  
**5000k**  
 EALS03\_K2AN750\_\_\_\_\_.IES



—: Vertical plane through horizontal angle of maximum candlepower at 55°  
 —: Vertical plane through horizontal angle 34°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

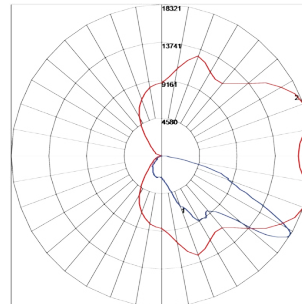
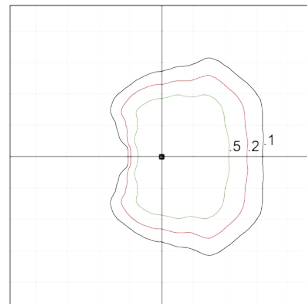
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**ASYMMETRIC WIDE**  
**(K3AW750)**  
**30300 Lumens**  
**5000k**  
 EALS03\_K3AW750\_\_\_\_\_.IES



—: Vertical plane through horizontal angle of maximum candlepower at 45°  
 —: Vertical plane through horizontal angle 34°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

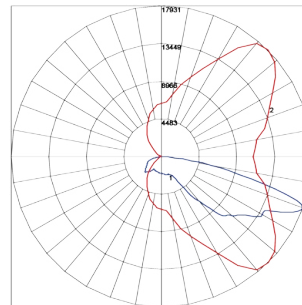
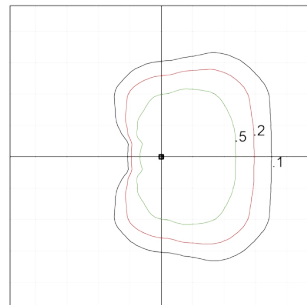
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**ASYMMETRIC FORWARD**  
**(K4AF750)**  
**30000 Lumens**  
**5000k**  
 EALS03\_K4AF750\_\_\_\_\_.IES



—: Vertical plane through horizontal angle of maximum candlepower at 20°  
 —: Vertical plane through horizontal angle 58°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

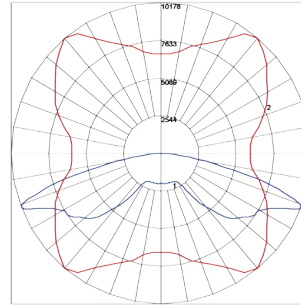
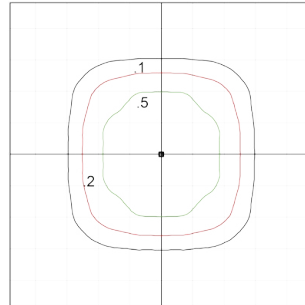
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**ASYMMETRIC HIGH ANGLE**  
**(K4AH750)**  
**29000 Lumens**  
**5000k**  
 EALS03\_K4AH750\_\_\_\_\_.IES



—: Vertical plane through horizontal angle of maximum candlepower at 45°  
 —: Vertical plane through horizontal angle 70°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

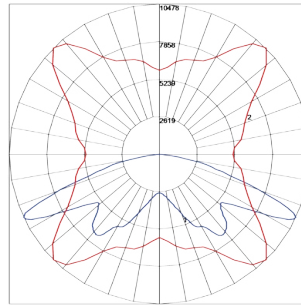
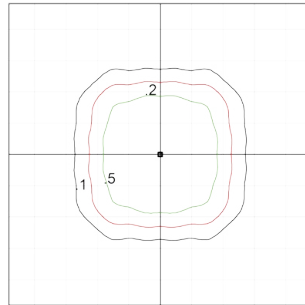
**EALS03**  
**SYMMETRIC HIGH ANGLE**  
**(K5SH750)**  
**29000 Lumens**  
**5000k**  
 EALS03\_K5SH750\_\_\_\_\_.IES



—: Vertical plane through horizontal angle of maximum candlepower at 50°  
 —: Vertical plane through horizontal angle 69°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

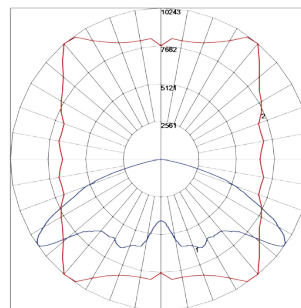
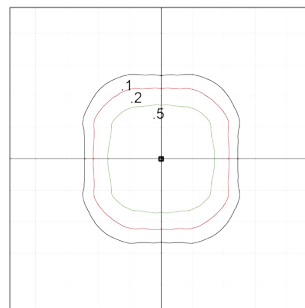
**EALS03**  
**SYMMETRIC MEDIUM**  
**(K5SM750)**  
**30000 Lumens**  
**5000k**  
 EALS03\_K5SM750\_\_\_\_\_.IES



—: Vertical plane through horizontal angle of maximum candlepower at 45°  
 —: Vertical plane through horizontal angle 65°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

**EALS03**  
**SYMMETRIC WIDE**  
**(K5SW750)**  
**30300 Lumens**  
**5000k**  
 EALS03\_K5SW750\_\_\_\_\_.IES

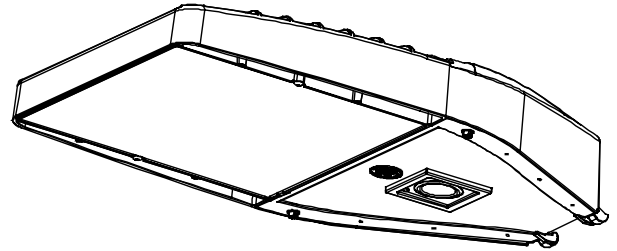


—: Vertical plane through horizontal angle of maximum candlepower at 50°  
 —: Vertical plane through horizontal angle 55°

Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

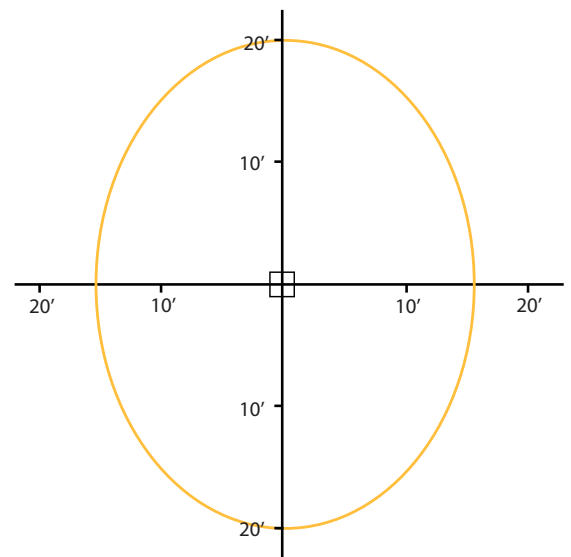
### H-MOTION SENSING OPTION

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  - Output: Occupied - 100%/Unoccupied - 50%
  - Integral PE Sensor.
  - 5 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of 1W expected with sensor use.



### H1/4 - MOTION SENSING OPTION (WATTSTOPPER)

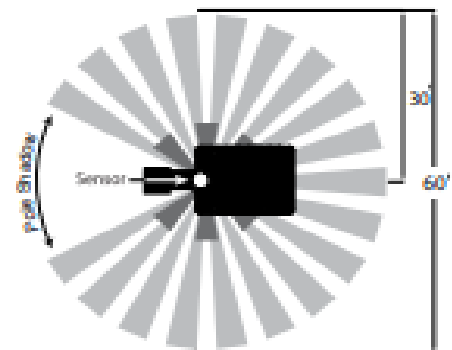
- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  - Output: Occupied - 100%/Unoccupied - 50%
  - PE Sensor: Enabled
  - Ramp/Fade: 5 Minutes/5 Minutes
- Adds < 1W to fixture power rating
- Field programmable using FSIR-100 hand held programmer



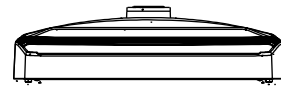
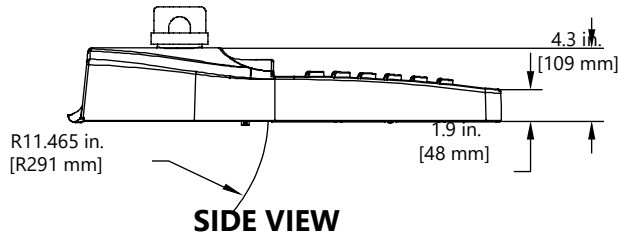
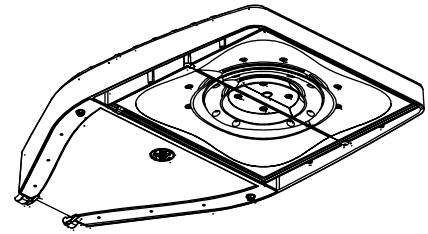
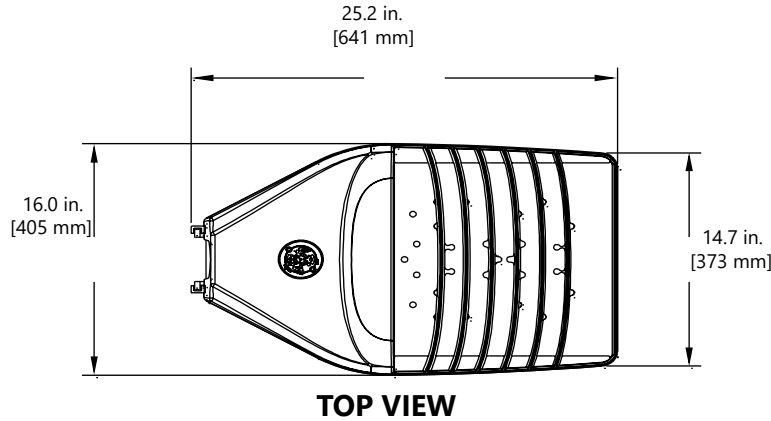
### H2 - MOTION SENSING OPTION (DAINTREE)

- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Provides a coverage area radius for walking motion of 15-20 ft. (4.57-6.10m)
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  - Output: Occupied - 100%/Unoccupied - 50%
  - PE Sensor: None
  - Ramp/Fade: 5 Minutes/5 Minutes
- Adds < 1W to fixture power rating
- Requires Daintree Enterprise and wide area control (WAC)

Sensing Pattern Area Fixture  
Up to 30 ft. Mounting Height

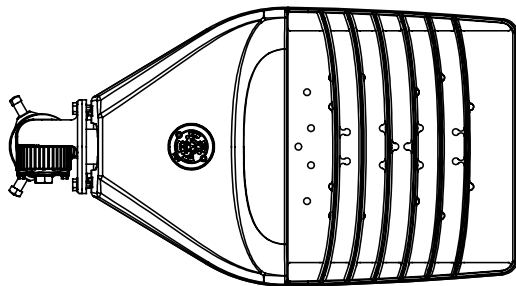


**INTEGRAL SLIPFITTER: C1**

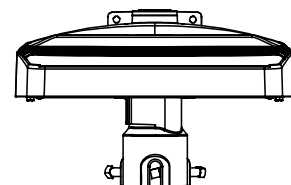
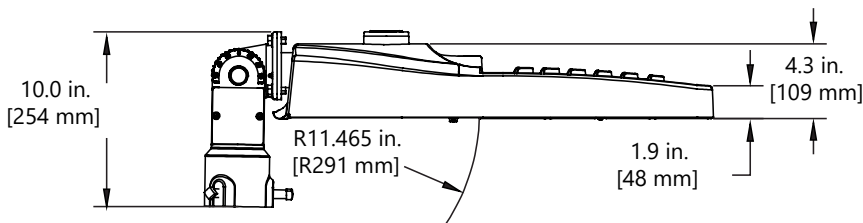
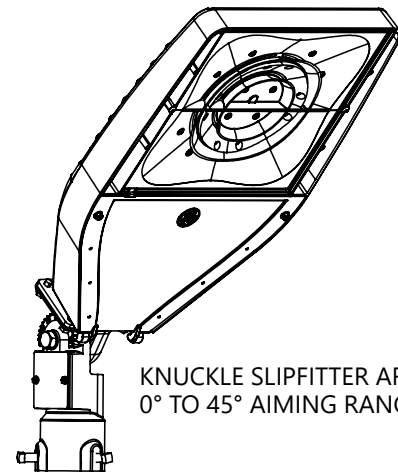


**FRONT VIEW**

**KNUCKLE SLIPFITTER: S1**

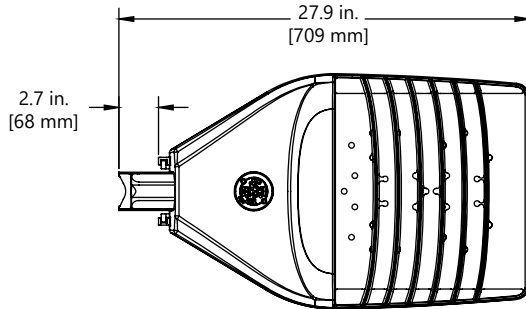


**TOP VIEW**

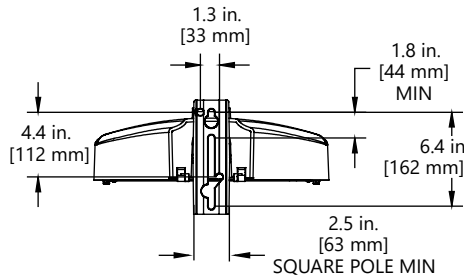
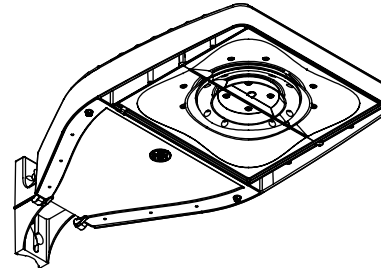




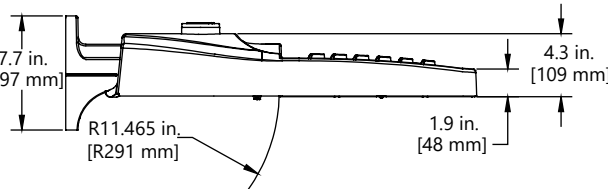
### UNIVERSAL ARM MOUNT: D1



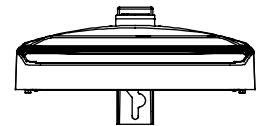
**TOP VIEW**



**BACK VIEW**

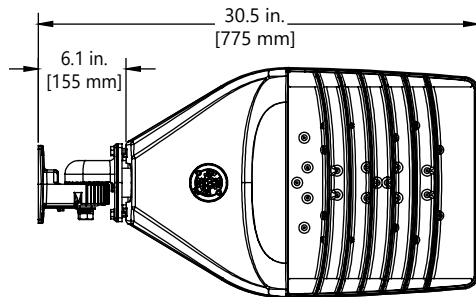


**SIDE VIEW**

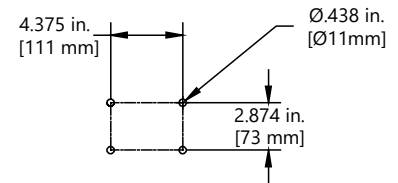
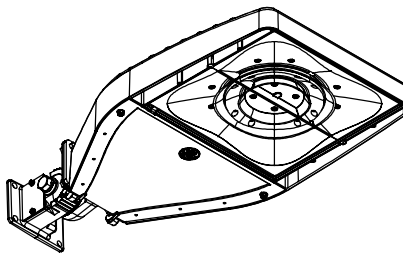


**FRONT VIEW**

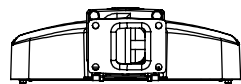
### KNUCKLE WALL MOUNT: V1



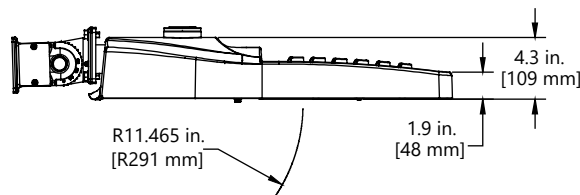
**TOP VIEW**



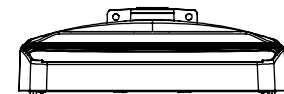
**Wall Mount Hole Pattern**



**BACK VIEW**



**SIDE VIEW**



**FRONT VIEW**

### DATA

- Approximate Net Weight: 26-28 lbs (11.79 kgs-12.97 kgs)
- Effective Projected Area (EPA):
  - Knuckle Slipfitter S1, 45° aim, EPA = 2.45
  - Knuckle w/Slipfitter S1, downward aim, EPA = 0.73
  - Universal Arm Mount D1, EPA = 0.54
  - Knuckle Wall Mount V1, 45° aim, EPA = 0.77 sq ft min and 1.43 sq ft max
  - Integral Slipfitter C1, EPA = 0.63

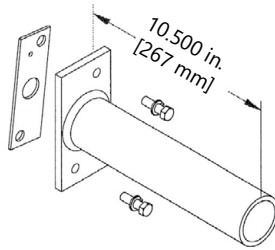


### MOUNTING ARMS FOR SLIPFITTER

Order separately with Mounting Option C1 (Slipfitter)

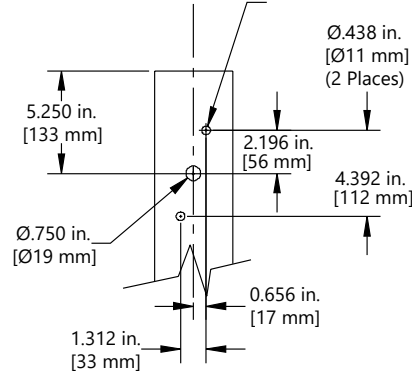
#### SQUARE POLE MOUNTING ARM

3.5 TO 4.5-inch (89 to 114mm) SQUARE  
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



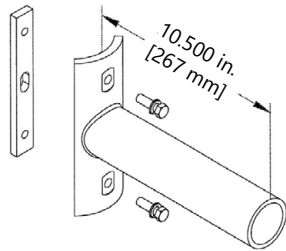
ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER  
**SPA-EAMT10BLCK "Black"**  
**SPA-EAMT10DKBZ "Dark Bronze"**

#### SQUARE POLE MOUNTING DRILLING TEMPLATE



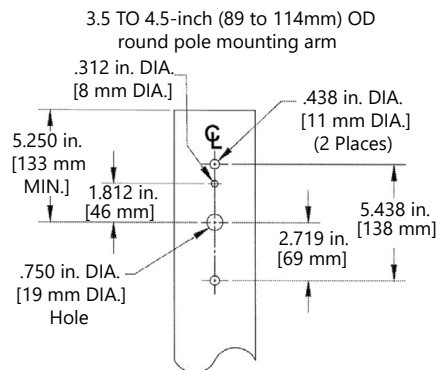
#### ROUND POLE MOUNTING ARM DRILLING TEMPLATE

3.5 TO 4.5-inch (89 to 114mm) OD  
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER  
**RPA-EAMT10BLCK "Black"**  
**RPA-EAMT10DKBZ "Dark Bronze"**

#### ROUND POLE MOUNTING DRILLING TEMPLATE



### Wall Mounting Bracket Adapter Plate

ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER

**WMB-EAMT06**

\*NOTE: For Wall Mounting, order luminaire with mounting arm: C1 = Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

**Other mounting patterns are available for retrofit installations.  
Contact manufacturing for other available mounting patterns.**

SAP NUMBER	PART NUMBER	DESCRIPTION	SAP NUMBER	PART NUMBER	DESCRIPTION
93123552	WANSI - 277	ANSI 136.41 Dimming PE Daintree Enable, 105-305V	28299	PECOTL	Standard 120-277V
93123553	WANSI - 480	ANSI 136.41 Dimming PE Daintree Enable, 312-530V	28294	PECSTL	Standard 480V
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V	80436	PECCTL	Standard 347V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V	93147530	PECHTL	Long Life Standard PE, 347-480V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V	73251	SCCL-PECTL	Shorting Cap

PE Accessories (to be ordered separately)