

## EACL® Series

### LED Area Light/Compact Low Wattage

Current's EAL Series of Area Light Luminaires offer 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.



### Construction

<b>Housing:</b>	Die-cast aluminum housing with integral heat sink for maximum heat transfer
<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 available.
<b>Weight:</b>	18 lbs (8.16 kg) Max depending on configuration

### Optical System

<b>Lumens:</b>	2,900 - 20,400
<b>Distribution:</b>	Asymmetric Forward Type IV Asymmetric Wide Type III Asymmetric Narrow/Auto Type II
<b>Efficacy:</b>	123 - 143 LPW
<b>CCT:</b>	3000K, 4000K, 5000K
<b>CRI:</b>	≥70

### Electrical

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

### Surge Protection\*

TYPICAL (120 STRIKES)	ENHANCED (40 STRIKES)
6kV/3kA*	10kV/5kA*

\*Per ANSI C136.2-2015

### Warranty

5 Year (Standard)

### Lumen Maintenance

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

LUMEN CODES	LXX(10K) @ HOURS		
	25,000 HR	50,000 HR	60,000 HR
A2, A3, A4, B2, B3, B4, C2, C3, C4D2, D3, D4, E2, E3, E4, F2, F3, F4	L94	L90	L88
H2, H3, H4	L97	L96	L96

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	50	0.97

### Ratings

<b>Operating Temperature:</b>	-40°C to 50°C
<b>Vibration:</b>	3G vibration per ANSI C136.31-2018
<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



Not all product variations listed on this page are DLC qualified.  
Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualifications.

## Ordering Information

EACL 01

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PROD. ID	GEN	VOLTAGE	OPTIC CODE	DISTRIBUTION	CRI (MIN)	CCT	DIMMING <sup>2</sup>	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E = Evolve AC = Compact Area Light L = Low Voltage	01	0 = 120-277V <sup>1</sup> H = 347-480V <sup>1</sup> 1 = 120V 2 = 208V 3 = 240V 4 = 277V 5 = 480V D = 347V	Ax=3000 lm Bx=5000 lm Cx=7500 lm Dx=10000 lm Dx=10000 lm Ex=12500 lm Fx=15000 lm Hx=20000 lm	AF = Asymmetric Forward AW = Asymmetric Wide AN = Asymmetric Narrow/Auto	7 = 70	30 = 3000K <sup>11</sup> 40 = 4000K 50 = 5000K	N = Dimming thru PE receptacle D = External Dimming 18/2-3ft cable X = No External Dimming Leads	1 = None A = ANSI 7-pin PE receptacle (no control) D = ANSI 7-pin PE receptacle with shorting cap provided E = ANSI C136.41 7-pin with Non-Dimming PE Control <sup>3</sup>	C1 = Integral Slip-fitter for 1.25"- 2" Pipe (1.66in. OD - 2.378 in. OD) <sup>4</sup> D1 = Universal Mounting Arm, fitted for round or square pole mounting <sup>5</sup> K1 = Knuckle Slipfitter for 1.9 in - 2.3in. OD Tenon <sup>5,6</sup> S1 = Knuckle Slipfitter for 2.3in. - 3.0in OD Tenon <sup>5,6</sup> V1 = Knuckle Wall Mount <sup>5,6</sup>	GRAY = Gray BLCK = Black DKBZ = Dark Bronze WHTE = White	F = Fusing <sup>12</sup> H1 = Motion Sensor w/LightGrid <sup>13</sup> H2 = Motion Sensor (Daintree) <sup>8</sup> H4 = Motion Sensor (Wattstopper) <sup>13</sup> J = cUL/Canada L = Tool-Less Entry R= Enhanced Surge Protection (10kV/5kA) U = DALI dimming <sup>7</sup> V = 3-Position Terminal Block Y = Coastal Finish <sup>10</sup> 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> H2 Sensor is not available in High Voltage (347V, 480V or 347-480V)

<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> Fusing not available with the following options: optical codes AX, BX; voltage options 347V, 480V

<sup>13</sup> For optical codes AX or BX: only available in 120-277V, not available with fusing, terminal board, or R surge.

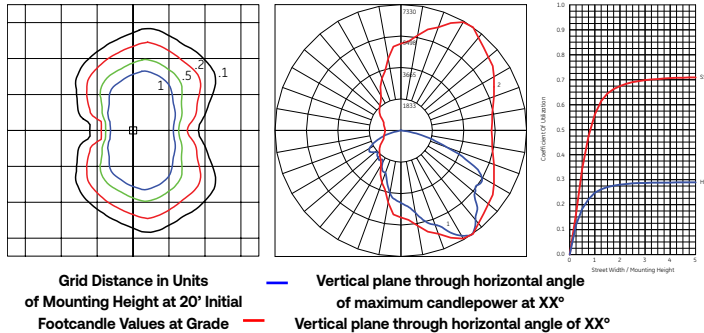
CUSTOMER NAME \_\_\_\_\_  
PROJECT NAME \_\_\_\_\_  
DATE \_\_\_\_\_ TYPE \_\_\_\_\_  
CATALOG NUMBER \_\_\_\_\_

OPTICAL CODE	DIST CODE	CLASSIFICATION	TYPICAL LUMENS		TYPICAL SYSTEM WATTAGE		BUG RATING	
			3000K	4000K & 5000K	120-277V	347-480V	3000K	4000K & 5000K
A4	AF	TYPE IV	2900	2900	21	23	B1-UO-G1	B1-UO-G1
B4			4900	4900	36	38	B1-UO-G1	B1-UO-G1
C4			7300	7300	55		B1-UO-G2	B1-UO-G2
D4			9800	9800	73		B2-UO-G2	B2-UO-G2
E4			12200	12200	95		B2-UO-G2	B2-UO-G2
F4			14700	14700	122		B2-UO-G2	B2-UO-G2
H4			19000	19000	153		B3-UO-G3	B3-UO-G3
A3	AW	TYPE III	2900	3000	21	23	B1-UO-G1	B1-UO-G1
B3			4900	5100	36	38	B1-UO-G1	B1-UO-G1
C3			7400	7600	55		B1-UO-G2	B1-UO-G2
D3			9900	10200	73		B2-UO-G2	B2-UO-G2
E3			12400	12700	95		B2-UO-G2	B2-UO-G2
F3			14900	15300	122		B2-UO-G2	B2-UO-G2
H3			19300	20400	153		B3-UO-G2	B3-UO-G2
A2	AN	TYPE II	2900	3000	21	23	B1-UO-G1	B1-UO-G1
B2			4900	5000	36	38	B1-UO-G1	B1-UO-G1
C2			7300	7500	55		B2-UO-G1	B2-UO-G2
D2			9800	10100	73		B2-UO-G2	B2-UO-G2
E2			12300	12600	95		B2-UO-G2	B2-UO-G2
F2			14700	15100	122		B3-UO-G2	B3-UO-G3
H2			19100	20200	153		B3-UO-G3	B3-UO-G3

For additional information on Non-Shielded and Shielded EACL IES files, please refer to [LED.com](#)

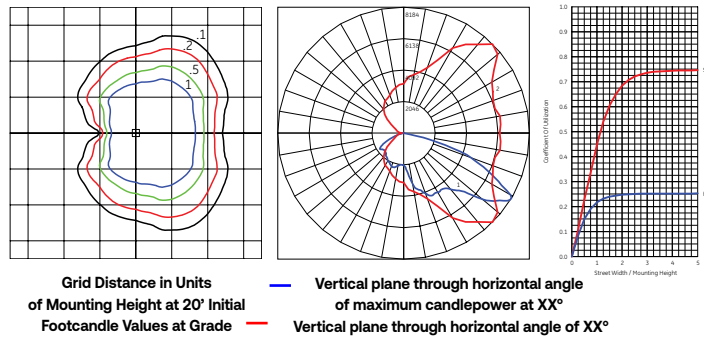
#### EACL - Type II - Very Short

15,100 lumens  
EACL01\_F2AN750\_...IES



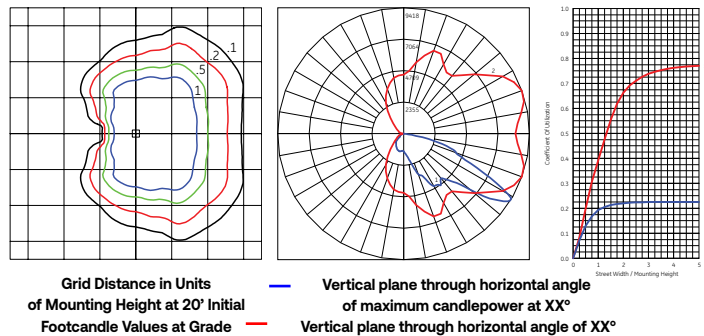
#### EACL - Type III - Short

15,300 lumens  
EACL01\_F3AW750\_...IES



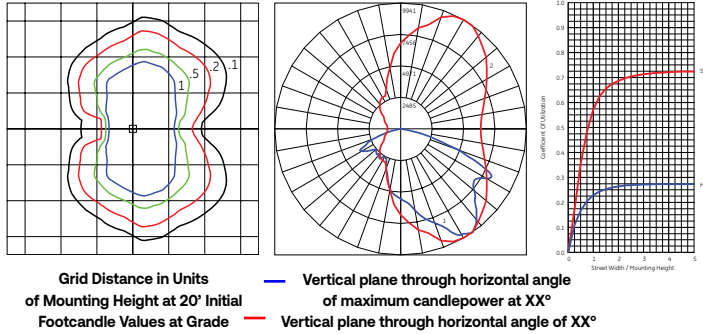
#### EACL - Type III - Very Short

15,000 lumens  
EACL01\_F4AF750\_...IES



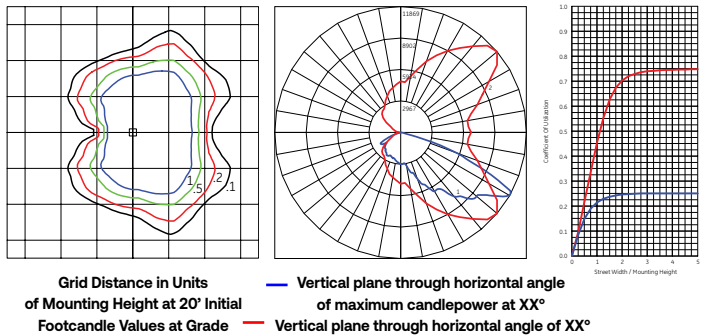
#### EACL - Type II- Very Short

20,200 lumens  
EACL01\_H2AN750\_\_\_IES



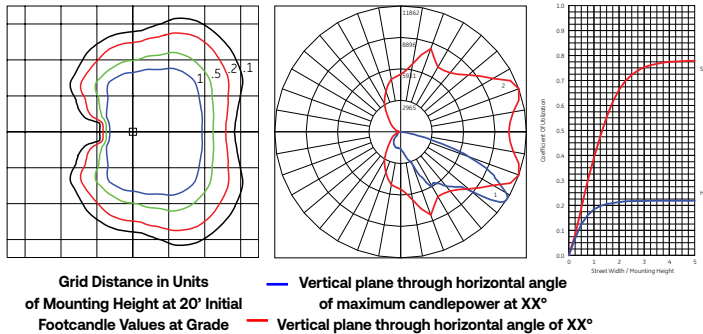
#### EACL - Type III - Short

20,400 lumens  
EACL01\_H3AW750\_\_\_IES



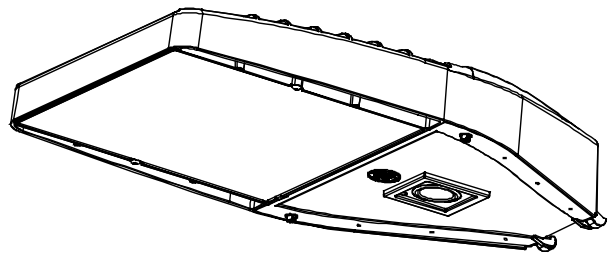
#### EACL - Type IV - Very Short

20,000 lumens  
EACL01\_H4AF750\_\_\_IES



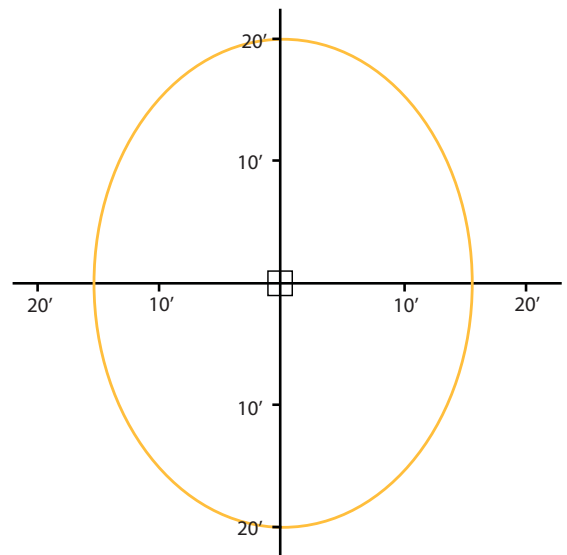
### H-Motion Sensing Option

- 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)

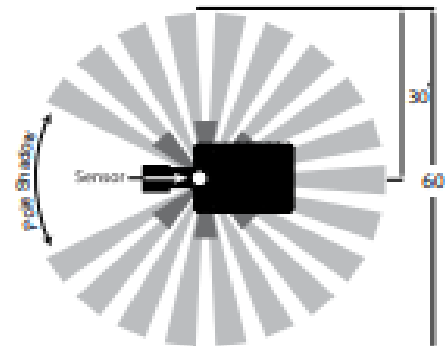
- Recommended Mounting Height: 15-30' (4.6-9.1m)
- For mounting heights exceeding 30 ft., pole mounted sensors are recommended
- Coverage Radius: 15-20' (4.6-6.1 m).
- Provides 270 degree of coverage (approx 90 is blocked by the pole)
- Default Settings:
  - Output: Occupied - 100%/Unoccupied - 10%
  - PE Sensor: Disabled
  - Ramp/Fade: Disabled
- Adds < 1W to fixture power rating
- Field programmable using FSIR-100 hand held programmer



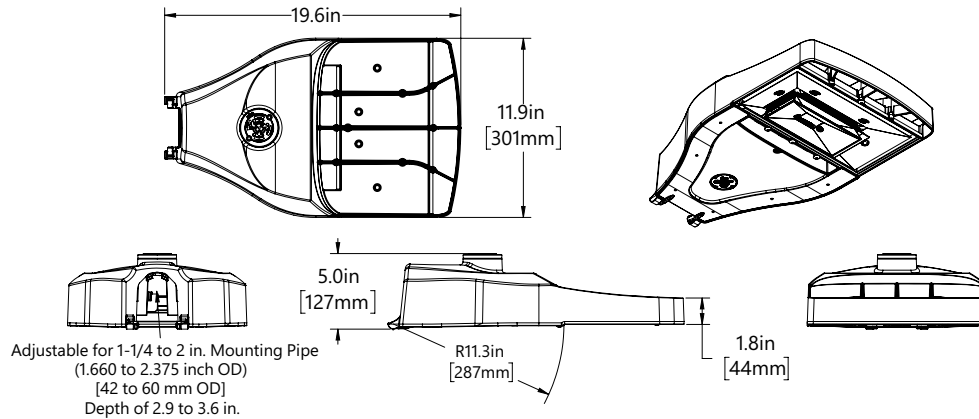
### H2 - Motion Sensing Option (Daintree)

- 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)

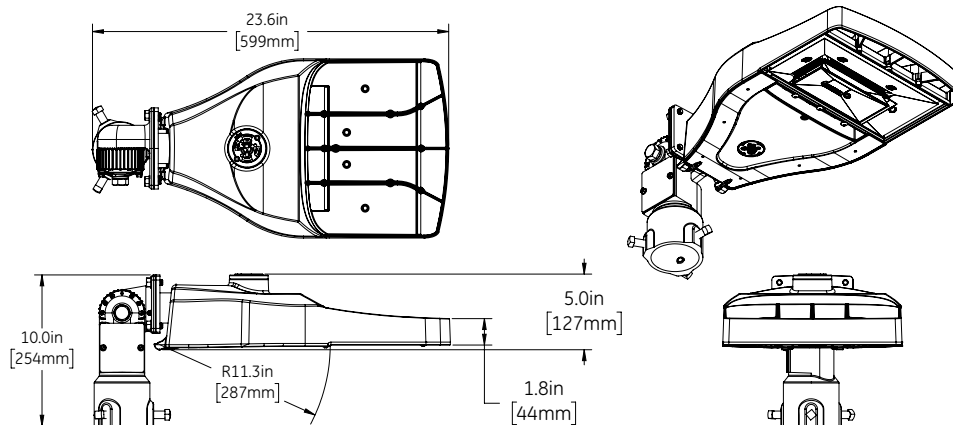
Sensing Pattern Area Fixture  
Up to 30 ft. Mounting Height



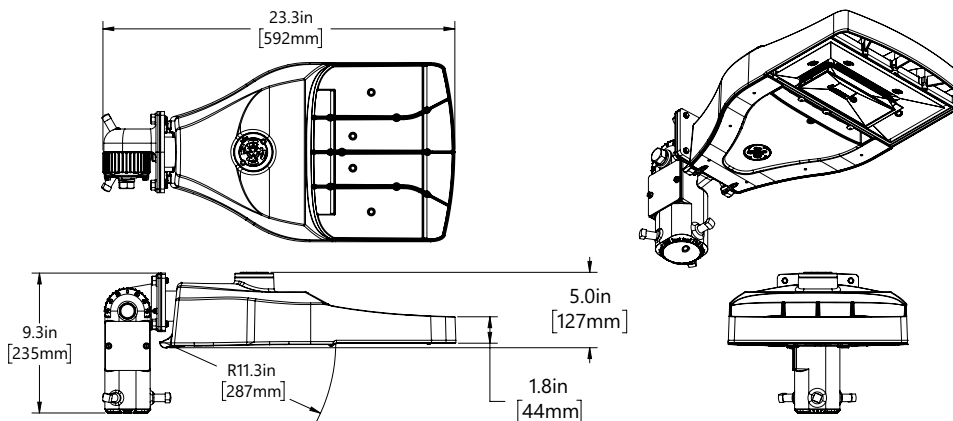
#### Integral Slipfitter: C1



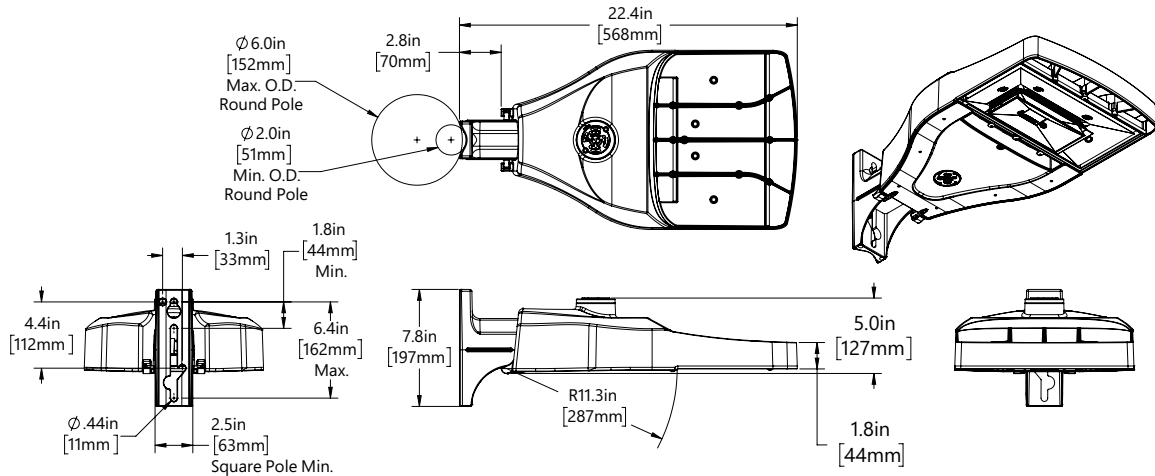
#### Knuckle Slipfitter: S1



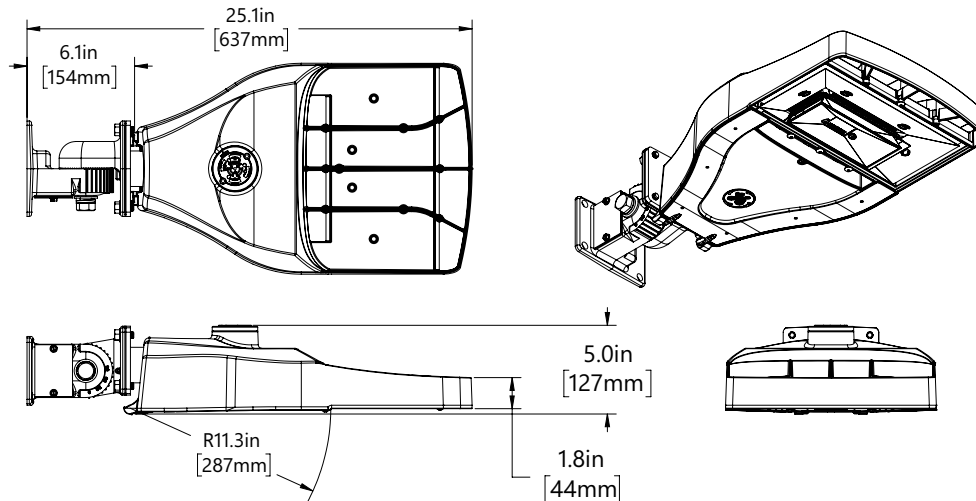
#### Knuckle Slipfitter: K1



#### Universal Mounting Arm: D1



#### Knuckle Wall Mount: V1



#### Weight

- 18 lbs (8.16 kg) Max depending on configuration

#### Effective Projected Area

- Integral Slipfitter C1, EPA = 0.31 Min/0.37 Max
- Universal Arm Mount D1, EPA = 0.31 Min / 0.52 Max
- Knuckle Slipfitter S1, K1 downward aim, EPA = 0.46 Min / 0.56 Ma
- Knuckle Slipfitter S1, K1 45° aim, EPA = 0.56 Min / 1.03 Max

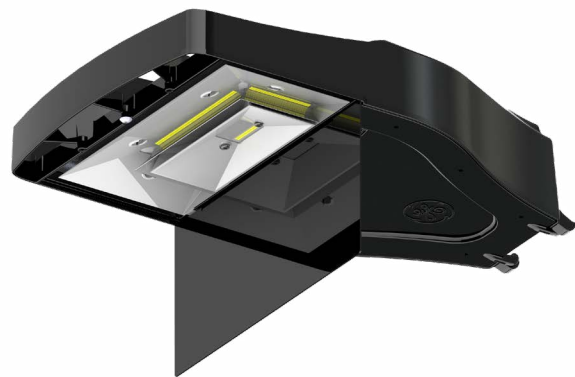
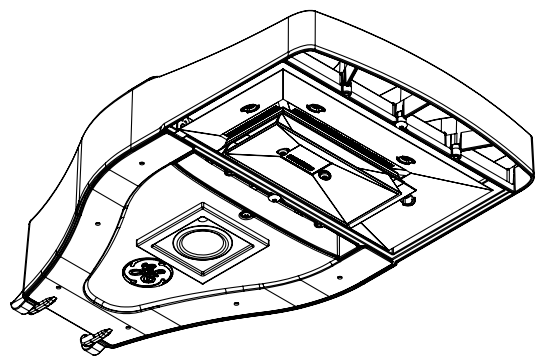


CUSTOMER NAME \_\_\_\_\_

PROJECT NAME \_\_\_\_\_

DATE \_\_\_\_\_ TYPE \_\_\_\_\_

CATALOG NUMBER \_\_\_\_\_



PE Accessories (To Be Order Separately)

SAP NUMBER	PART NUMBER	DESCRIPTION
93123552	WANSI - 277	ANSI 136.41 Dimming PE Danitree Enable, 105-305V
93123553	WANSI - 480	ANSI 136.41 Dimming PE Danitree Enable, 312-530V
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V

SAP NUMBER	PART NUMBER	DESCRIPTION
28299	PEC0TL	STANDARD 120-277V
28294	PEC5TL	STANDARD 480V
80436	PECDTL	STANDARD 347V
73251	SCCL-PECTL	Shorting cap

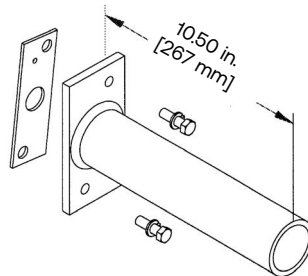
Back Light Shied

SHIELD ORIENTATIONS	CUTOFF DISTANCE	SHIELD ORDER LOGIC
Back	Long	ELS-EACL-RBL-BLCK

## 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.)

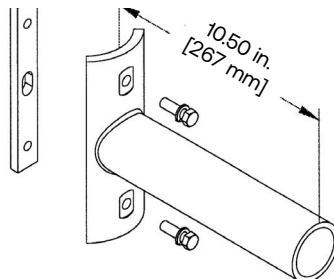


#### Order separately from fixture as catalog number

- SPA-EAMT10BLACK "Black"
- SPA-EAMT10DKBZ "Dark Bronze"
- SPA-EAMT10WHITE "White"
- SPA-EAMT10GRAY "Gray"

### Round Pole Mounting Arm

- 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-EAMT10BLACK "Black"
- RPA-EAMT10DKBZ "Dark Bronze"
- RPA-EAMT10WHITE "White"
- RPA-EAMT10GRAY "Gray"

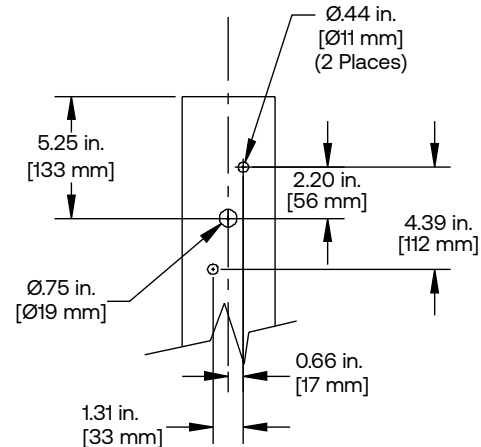
### Wall Mounting Bracket Adapter Plate

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.

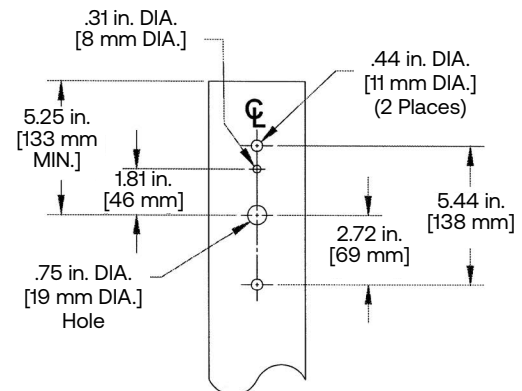
Other mounting patterns are available for retrofit installations. Contact manufacturing for other available mounting patterns.

### Square pole mounting drilling template



### Round Pole Mounting Drilling Template

- 3.5 TO 4.5-inch (89 to 114mm) OD round pole mounting arm



### Wall MOUNTING Bracket Hole Pattern

