

# Evolve™ LED Area Lighting

EALP



**current**  
powered by GE



## Product Features

The GE Evolve™ LED Area Light, EALP, is optimized for customers needing an energy saving LED solution while adding flexibility, style and scalability at a higher LPW than our standard EALS Area Light. The EALP luminaire offers a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to best optimize area light applications, as well as provide versatility in lighting design within the same form-factor. The fixture features innovative heat sinking that produces thermal stability over life in an extremely lightweight housing, while meeting a 3G vibration rating tested on 3-axis. This area light meets DLC Premium requirements for lumen maintenance and superior LPW. The EALP has a product-wide lumen maintenance at L90 @ 50k hours and up to 126LPW.

The Universal Mounting Arm option will provide installers the ability to mount the EALP on round poles ranging in size from 2.38" to 6" in diameter or on square poles. In addition, it has a slide feature, enabling a more universal bolt pattern when faced with many existing bolt patterns in the field. This feature will save both time and money for the contractor and end users. Add the fact that the luminaire weighs just 26-28 lbs – making the EALP truly ideal for installers' needs!

The GE Evolve™ LED Area Light is intended to replace up to 1000W MH luminaires. It features 0-10V or DALI dimming, along with LightGrid™ wireless control compatibility and is available with optional programmable motion sensing for additional energy savings and Title 24 compliance.

## Applications

- Site, area, roadway and general lighting applications utilizing advanced LED optical system providing high uniformity, excellent vertical light distribution, reduced offsite visibility, reduced on-site glare and effective security light levels.
- Ideal for large retailers, commercial to medical properties, and big box retailers. Also suitable for roadways.

## Housing

- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, and long LED life.
- Die cast aluminum housing
- 3G vibration per ANSI C136.31-2010

## LED & Optical Assembly

- LM-79 tests and reports in accordance with IESNA standards
- 70CRI at 3000K, 4000K and 5000K
- Distributions: II, III, IV, V (short & medium)
- Upward Light Output Ratio (ULOR) = 0



## Lumen Maintenance

- Projected L90 > 50,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25 °C for reference:

SKU	Lxx (10k) @ Hours		
	25,000 hr	50,000 hr	100,000 hr
EALP	L98	L95	L90

NOTES: 1) Projected Lxx based on LM-80 (100,000 hour testing). 2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

## Lumen Ambient Temperature Factors:

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

## Ratings

- cUL Listed
- UL 1598 Listed Suitable for Wet Locations
- IP65 optical enclosure per ANSI C136.25-2013
- Temperature Rated -40°C to +40°C
- Title 24 compliant (w/ "H" motion sensor option)
- Complies with the material restrictions of RoHS.



DLC Premium qualified models available. Please refer to <http://www.designlights.org/QPL> for complete information.

## Mounting

### Option C

- C1 = Integral Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

### Option D

- D1 = Universal Mounting Arm, fitted for round or square pole mounting supplied with 16/3 3ft cable.

### Option K

- K1 = Knuckle Slipfitter for 1.9 in. -2.3 in. OD Tenon with leads. Restricted aiming angle 0° to +45°.

### Option S

- S1 = Knuckle Slipfitter for 2.3in. - 3.0in OD Tenon with leads. Restricted aiming angle 0° to +45°.

### Option V

- V1 = Knuckle Wall Mount with leads. Restricted aiming angle 0° to +45°.

## Finish

- Corrosion resistant polyester powder paint, minimum thickness 2.0 mil.
- Standard colors: Black & Dark Bronze.
- RAL & custom colors available.

## Electrical

- 120-277 VAC and 347-480 VAC available.
- System power factor is >90% and THD <20%.
- ANSI C136.41 7-pin dimming receptacle, standard.
- ANSI photo electric sensors (PE) available for all voltages. Light Grid compatible.
- Dimming/Occupancy:
  - Wired 0-10V continuous dimming
  - DALI digital dimming. Contact manufacturer for availability.
  - Standalone motion sensor based dimming using "H" option code.
- Surge Protection per ANSI C136.2-2015.
  - 6kV/3kA "Basic" surge protection, standard.
  - 10kV/5kA "Enhanced" surge protection optional.

## Warranty

- 5 Year Standard

## Accessories

- Photoelectric Controls (see page 7)
- Light Shields (see OLP3120 Shielding for EAL Area Light Fixtures)



DLC Standard qualified models available. Please refer to <http://www.designlights.org/QPL> for complete information.

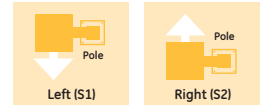
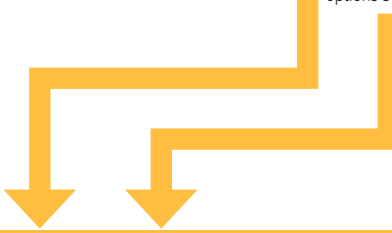
# Ordering Number Logic

## Evolve™ LED Area Light (EALP)



EALP 01 --- --- --- 7 --- --- ---

PROD. ID	GENERATION	VOLTAGE	OPTICAL DISTRIBUTION CODE	CRI	CCT	DIMMING	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
<b>E</b> = Evolve <b>AL</b> = Area Light <b>P</b> = Premium	<b>01</b> = 1st Generation	<b>0</b> = 120-277* <b>1</b> = 120 <b>2</b> = 208 <b>3</b> = 240 <b>4</b> = 277 <b>5</b> = 480 <b>D</b> = 347 <b>H</b> = 347-480*	<b>SM</b> = Symmetric Medium <b>SW</b> = Symmetric Wide <b>AF</b> = Asymmetric Forward <b>AW</b> = Asymmetric Wide <b>AN</b> = Asymmetric Narrow <b>AA</b> = Asymmetric Auto*	<b>7</b> = 70 (min)	<b>30</b> = 3000K <b>40</b> = 4000K <b>50</b> = 5000K ◊Select 3000K CCT for IDA Approved units	<b>N</b> = Dimming thru PE receptacle <b>D</b> = External Dimming 18/2 3ft cable  All constructions supplied with ANSI C136.41 7-pin Receptacle <b>Note:</b> Standard dimming 0-10V	<b>A</b> = ANSI 7-pin PE receptacle (no control) <b>D</b> = ANSI 7-pin PE receptacle with shunting cap provided  <b>Note:</b> See accessories section on page 7 for PE Control ordering	<b>C1</b> = Integral Slip-fitter 2" Pipe (2.378 in. OD)* <b>D1</b> = Universal Mounting Arm, fitted for round or square pole mounting** <b>K1</b> = Knuckle Slipfitter for 1.9 in - 2.3in. OD Tenon* ** <b>S1</b> = Knuckle Slipfitter for 2.3in. - 3.0in. OD Tenon* ** <b>V1</b> = Knuckle Wall Mount* **	<b>GRAY</b> = Gray <b>BLCK</b> = Black <b>DKBZ</b> = Dark Bronze <b>WHTE</b> = White	<b>F</b> = Fusing <b>H</b> = Motion Sensor <b>J</b> = cUL/Canada <b>L</b> = Tool-Less Entry <b>R</b> = Enhanced Surge Protection (10kV/5kA) <b>S1</b> = S1 - Roated Left† <b>S2</b> = S2 - Roated Right† <b>M</b> = NOM031 (Mexico)* <b>U</b> = DALI dimming+^ <b>V</b> = 3-Position Terminal Block <b>XXX</b> = Special Options  * Contact Manufacturer for availability + Compatible with LightGrid 2.0 nodes ^ Not compatible at 347-480V or with motion sensor control † For aimed left or right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric or Asymmetric Auto Distributions.

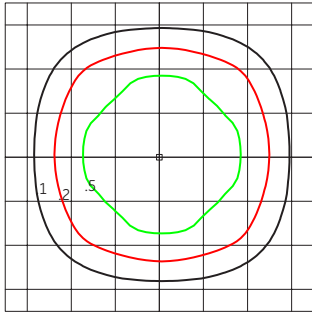


	OPTICAL CODE	DISTRIBUTION	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE 120-277V & 347-480V	BUG RATING		IES FILE NUMBER 3000K	IES FILE NUMBER 4000K	IES FILE NUMBER 5000K
			3000K	4000K & 5000K		3000K	4000K & 5000K			
TYPE V	C5	Symmetric Medium	7500	8000	67	B3-U0-G2	B3-U0-G2	EALP01_C5SM730	EALP01_C5SM740	EALP01_C5SM750
	D5	Symmetric Medium	9400	10000	89	B3-U0-G2	B3-U0-G2	EALP01_D5SM730	EALP01_D5SM740	EALP01_D5SM750
	F5	Symmetric Medium	14100	15000	140	B4-U0-G2	B4-U0-G2	EALP01_F5SM730	EALP01_F5SM740	EALP01_F5SM750
	H5	Symmetric Medium	18800	20000	183	B4-U0-G2	B4-U0-G2	EALP01_H5SM730	EALP01_H5SM740	EALP01_H5SM750
	J5	Symmetric Medium	23500	25000	220	B5-U0-G3	B5-U0-G3	EALP01_J5SM730	EALP01_J5SM740	EALP01_J5SM750
	K5	Symmetric Medium	28300	30000	274	B5-U0-G3	B5-U0-G3	EALP01_K5SM730	EALP01_K5SM740	EALP01_K5SM750
	L5	Symmetric Medium	32800	33600	327	B5-U0-G4	B5-U0-G4	EALP01_L5SM730	EALP01_L5SM740	EALP01_L5SM750
	M5	Symmetric Wide	8000	8500	67	B3-U0-G1	B3-U0-G1	EALP01_M5SW730	EALP01_M5SW740	EALP01_M5SW750
	N5	Symmetric Wide	10000	10600	89	B3-U0-G1	B3-U0-G1	EALP01_N5SW730	EALP01_N5SW740	EALP01_N5SW750
	Q5	Symmetric Wide	15100	16000	140	B3-U0-G2	B4-U0-G2	EALP01_Q5SW730	EALP01_Q5SW740	EALP01_Q5SW750
TYPE IV	S5	Symmetric Wide	20100	21300	183	B4-U0-G2	B4-U0-G2	EALP01_S5SW730	EALP01_S5SW740	EALP01_S5SW750
	T5	Symmetric Wide	25200	26700	220	B4-U0-G2	B4-U0-G2	EALP01_T5SW730	EALP01_T5SW740	EALP01_T5SW750
	U5	Symmetric Wide	30200	32000	274	B5-U0-G2	B5-U0-G2	EALP01_U5SW730	EALP01_U5SW740	EALP01_U5SW750
	V5	Symmetric Wide	33800	35900	327	B5-U0-G2	B5-U0-G3	EALP01_V5SW730	EALP01_V5SW740	EALP01_V5SW750
	C4	Asymmetric Forward	7000	7500	73	B1-U0-G2	B1-U0-G2	EALP01_C4AF730	EALP01_C4AF740	EALP01_C4AF750
	D4	Asymmetric Forward	9400	10000	93	B2-U0-G2	B2-U0-G2	EALP01_D4AF730	EALP01_D4AF740	EALP01_D4AF750
TYPE III	F4	Asymmetric Forward	14100	15000	136	B2-U0-G3	B2-U0-G3	EALP01_F4AF730	EALP01_F4AF740	EALP01_F4AF750
	H4	Asymmetric Forward	18800	20000	183	B3-U0-G4	B3-U0-G4	EALP01_H4AF730	EALP01_H4AF740	EALP01_H4AF750
	J4	Asymmetric Forward	23500	25000	220	B3-U0-G4	B3-U0-G4	EALP01_J4AF730	EALP01_J4AF740	EALP01_J4AF750
	K4	Asymmetric Forward	28300	30000	274	B3-U0-G4	B3-U0-G5	EALP01_K4AF730	EALP01_K4AF740	EALP01_K4AF750
	L4	Asymmetric Forward	32800	33600	327	B3-U0-G5	B3-U0-G5	EALP01_L4AF730	EALP01_L4AF740	EALP01_L4AF750
TYPE II	C3	Asymmetric Wide	7500	8000	73	B1-U0-G1	B2-U0-G2	EALP01_C3AW730	EALP01_C3AW740	EALP01_C3AW750
	D3	Asymmetric Wide	10000	10600	93	B2-U0-G2	B2-U0-G2	EALP01_D3AW730	EALP01_D3AW740	EALP01_D3AW750
	F3	Asymmetric Wide	15100	16000	136	B2-U0-G2	B2-U0-G2	EALP01_F3AW730	EALP01_F3AW740	EALP01_F3AW750
	H3	Asymmetric Wide	20100	21300	183	B3-U0-G2	B3-U0-G2	EALP01_H3AW730	EALP01_H3AW740	EALP01_H3AW750
	J3	Asymmetric Wide	25200	26700	220	B3-U0-G3	B3-U0-G3	EALP01_J3AW730	EALP01_J3AW740	EALP01_J3AW750
	K3	Asymmetric Wide	30200	32000	274	B3-U0-G3	B3-U0-G3	EALP01_K3AW730	EALP01_K3AW740	EALP01_K3AW750
AUTO	L3	Asymmetric Wide	33800	35900	327	B3-U0-G4	B3-U0-G4	EALP01_L3AW730	EALP01_L3AW740	EALP01_L3AW750
	C2	Asymmetric Narrow	7300	7800	73	B2-U0-G2	B2-U0-G2	EALP01_C2AN730	EALP01_C2AN740	EALP01_C2AN750
	D2	Asymmetric Narrow	9800	10400	93	B2-U0-G2	B2-U0-G2	EALP01_D2AN730	EALP01_D2AN740	EALP01_D2AN750
	F2	Asymmetric Narrow	14700	15600	136	B3-U0-G3	B3-U0-G3	EALP01_F2AN730	EALP01_F2AN740	EALP01_F2AN750
	H2	Asymmetric Narrow	19600	20800	183	B3-U0-G3	B3-U0-G3	EALP01_H2AN730	EALP01_H2AN740	EALP01_H2AN750
	J2	Asymmetric Narrow	24500	26000	220	B3-U0-G3	B3-U0-G3	EALP01_J2AN730	EALP01_J2AN740	EALP01_J2AN750
AUTO	K2	Asymmetric Narrow	29400	31200	274	B3-U0-G3	B3-U0-G3	EALP01_K2AN730	EALP01_K2AN740	EALP01_K2AN750
	L2	Asymmetric Narrow	33000	34900	327	B3-U0-G4	B4-U0-G4	EALP01_L2AN730	EALP01_L2AN740	EALP01_L2AN750
AUTO	KA	Asymmetric Auto	32700	34600	274	B4-U0-G3	B4-U0-G3	EALP01_KAAA730	EALP01_KAAA740	EALP01_KAAA750
	LA	Asymmetric Auto	36600	38800	327	B4-U0-G3	B4-U0-G3	EALP01_LAAA730	EALP01_LAAA740	EALP01_LAAA750

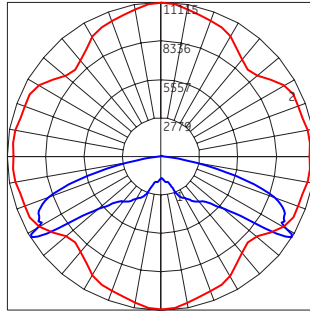
# Photometrics

## Evolve™ LED Area Light (EALP)

**EALP Type V - Symmetric Medium (L5)**  
33,600 Lumens, 5000K (EALP01\_L5SM750\_\_IES)

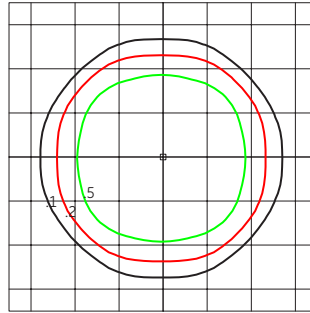


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

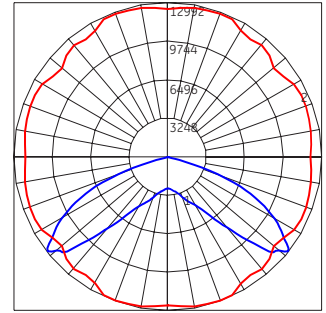


— Vertical plane through horizontal angle of maximum candlepower at 90°  
— Vertical plane through horizontal angle of 58°

**EALP Type V - Symmetric Wide (V5)**  
35,900 Lumens, 5000K (EALP01\_V5SW750\_\_IES)

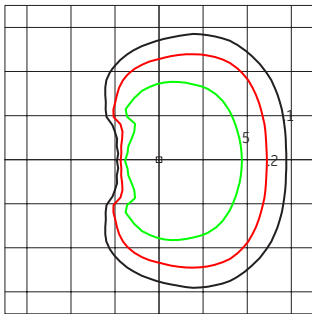


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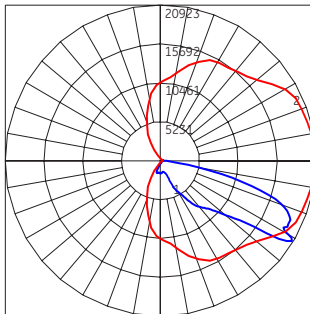


— Vertical plane through horizontal angle of maximum candlepower at 70°  
— Vertical plane through horizontal angle of 52°

**EALP Type IV - Asymmetric Forward (L4)**  
33,600 Lumens, 5000K (EALP01\_L4AF750\_\_IES)

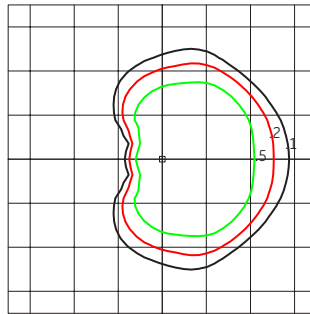


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

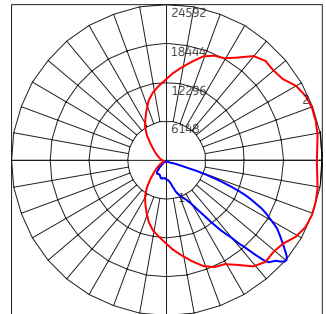


— Vertical plane through horizontal angle of maximum candlepower at 0°  
— Vertical plane through horizontal angle of 58°

**EALP Type III - Asymmetric Wide (L3)**  
35,900 Lumens, 5000K (EALP01\_L3AW750\_\_IES)

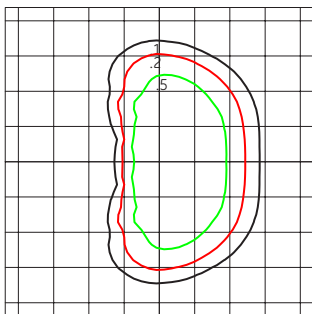


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

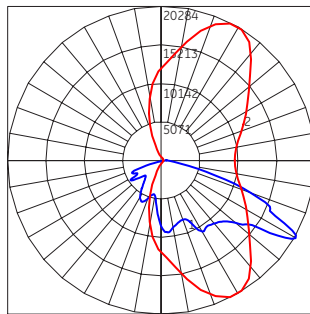


— Vertical plane through horizontal angle of maximum candlepower at 20°  
— Vertical plane through horizontal angle of 51°

**EALP Type II - Asymmetric Narrow (L2)**  
34,900 Lumens, 5000K (EALP01\_L2AN750\_\_IES)

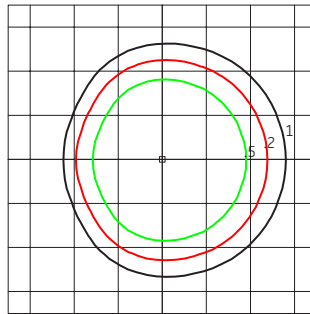


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

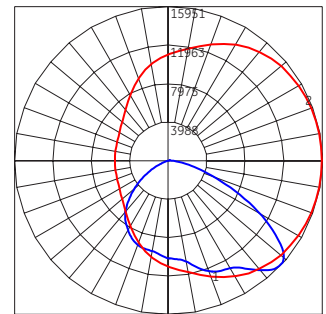


— Vertical plane through horizontal angle of maximum candlepower at 65°  
— Vertical plane through horizontal angle of 59°

**EALP - Asymmetric Auto (LA)**  
38,800 Lumens, 5000K (EALP01\_LAAA750\_\_IES)



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

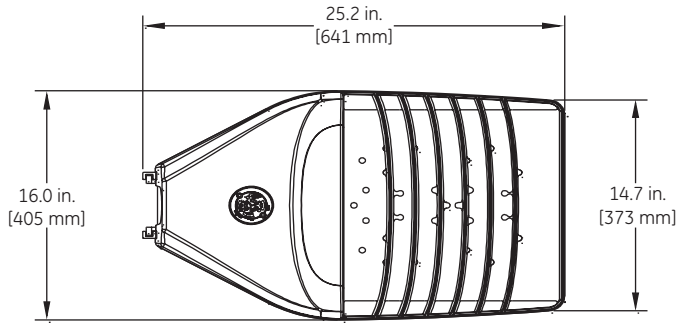


— Vertical plane through horizontal angle of maximum candlepower at 0°  
— Vertical plane through horizontal angle of 47°

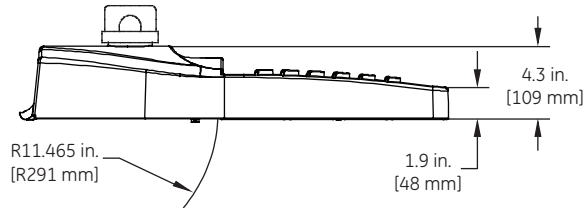
# Product Dimensions

## Evolve™ LED Area Light (EALP)

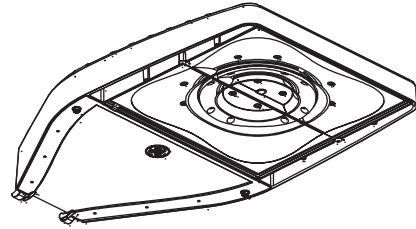
### Slipfitter Mount



TOP VIEW

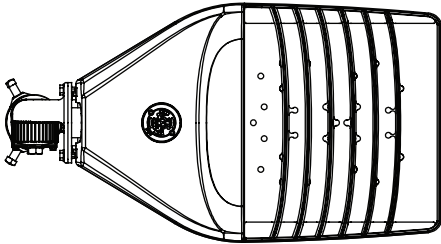


SIDE VIEW

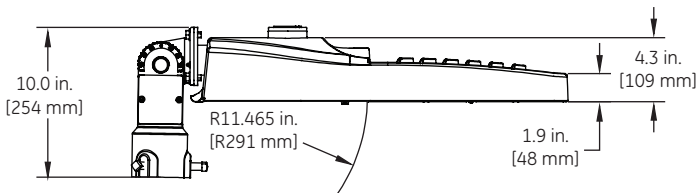


FRONT VIEW

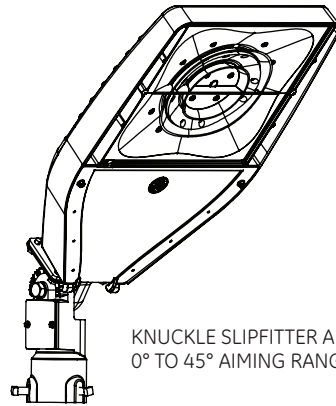
### Knuckle Mount



TOP VIEW



SIDE VIEW

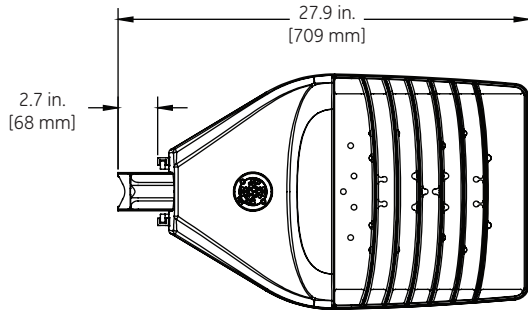


FRONT VIEW

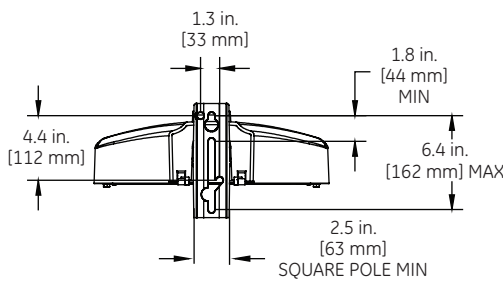
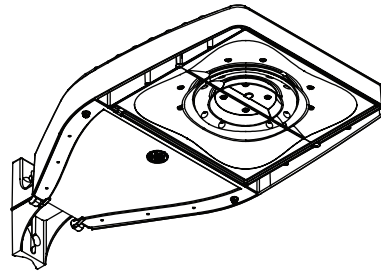
# Product Dimensions

## Evolve™ LED Area Light (EALP)

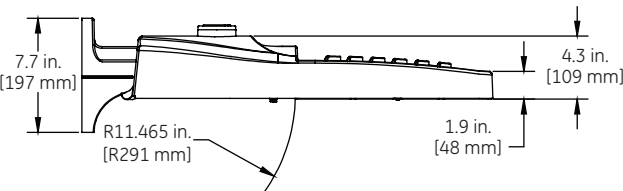
### Universal Arm Mount



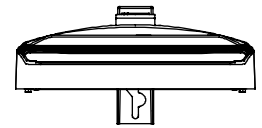
TOP VIEW



BACK VIEW

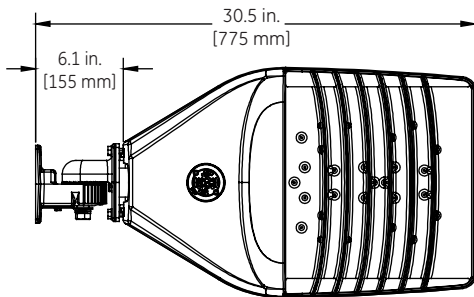


SIDE VIEW

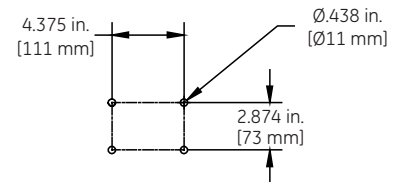
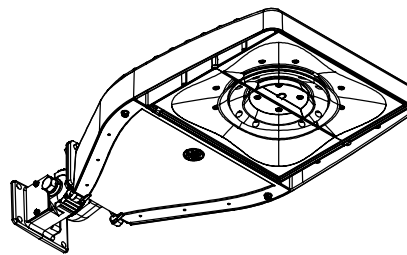


FRONT VIEW

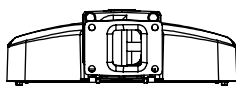
### Knuckle Wall Mount



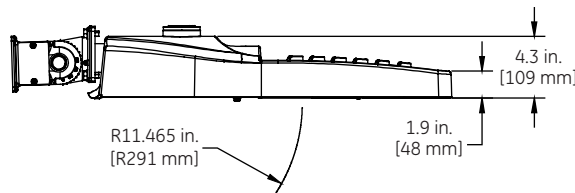
TOP VIEW



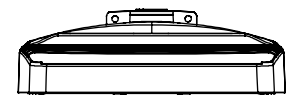
Wall Mount Hole Pattern



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

## Accessories

### Evolve™ LED Area Light (EALP)

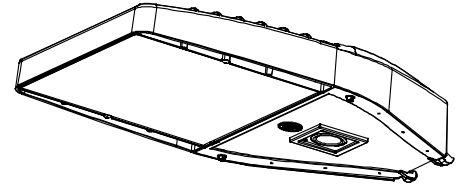
#### PE Accessories (to be ordered separately)

SAP Number	Part Number	Description
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	PECOTL	STANDARD 120-277V
28294	PEC5TL	STANDARD 480V
80436	PECCTL	STANDARD 347V
73251	SCCL-PECTL	Shorting cap

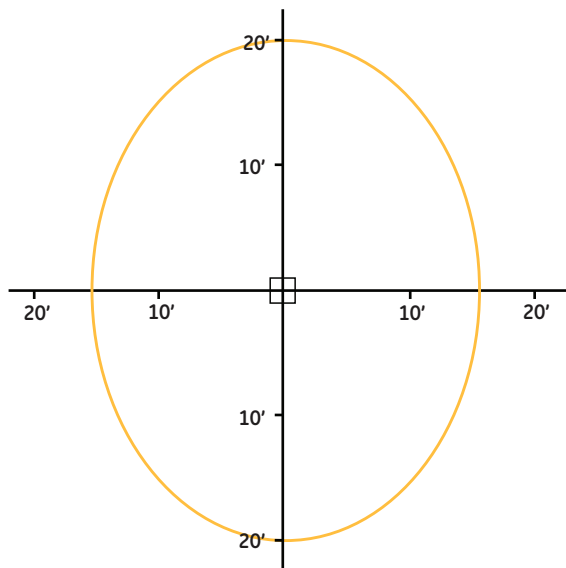
## H-Motion Sensing Option

- Intended for applications, between 15-30 ft. mounting height. (4.57-9.14m). 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° of coverage (~90° is blocked by the pole).
- Standard factory settings:
  - 50% output when unoccupied, 100% output occupied.
  - Integral PE Sensor.
  - 5 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of 1W expected with sensor use.



**Note:** Standard options may be reprogrammed in the field. Reprogramming instructions included in product shipment.

## Sensor Pattern



**Sensing Pattern Area Fixture  
Up to 30 ft. Mounting Height**

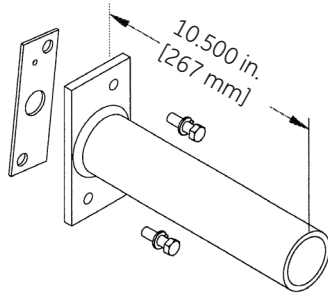
# Mounting Information

## Mounting Arms for Slipfitter

Order separately with Mounting Option C1 (Slipfitter)

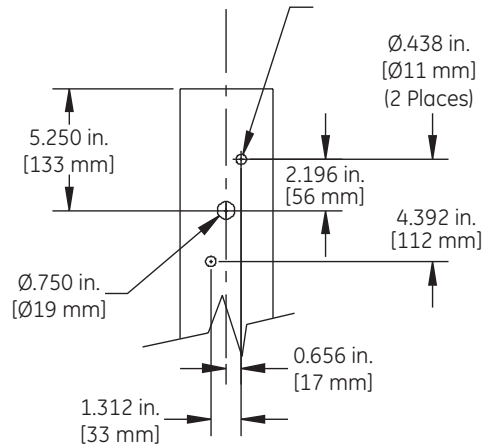
### SQUARE POLE MOUNTING ARM

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



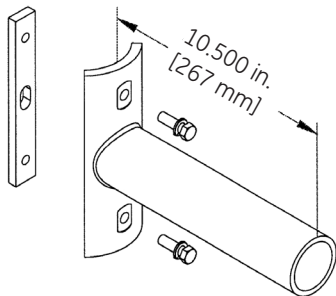
ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER  
SPA-EAMT10BLCK "Black"  
SPA-EAMT10DKBZ "Dark Bronze"

### SQUARE POLE MOUNTING DRILLING TEMPLATE



### ROUND POLE MOUNTING ARM DRILLING TEMPLATE

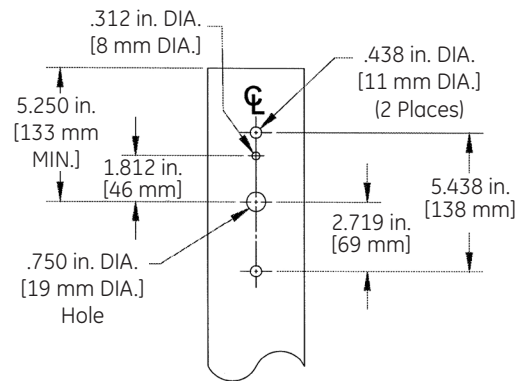
3.5 TO 4.5-inch (89 to 114mm) OD  
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



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

### ROUND POLE MOUNTING DRILLING TEMPLATE

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



## 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.