Evolve[™] LED Area Lighting EALS







Product Features

The EAL Area Light luminaires are the newest members of the GE Evolve[™] LED Area Light family. They offer 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. They are available in a standard and premium and perfect for commercial property site-lighting applications such as retail locations or commercial offices. The "standard" EALS area light, has a lumen range from 10,000–34,000 lumens with an efficacy point up to 146 LPW. These luminaires feature innovative heat sinking that produces thermal stability over life in an extremely lightweight housing, while meeting a 3G vibration rating tested on 3-axis.

The GE Evolve[™] LED EALS 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. The Universal Mounting Area option enables luminaires to mount to round poles ranging in size from 2.38" to 6" in diameter or on square poles.

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 Lxx per IES TM-21 at 25 °C for reference:

OPTICAL CODE	Lx: 25,000 hr	PROJECTED L90		
D4, D3, D2	L95	L91	L84	60,000
F4, F3, F2	L93	L86	L74	37,000
F5, Q5, N5, D5	L96	L94	L89	>61,000
H5, H4, H3, H2, S5	L95	L91	L84	60,000
J5, J4, J3, J2, T5	L89	L80	L64	25,000
K5, K4, K3, K2, KA, U5	L87	L76	L57	20,000

NOTES: 1) Projected Lxx based on LM80 (10,000 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
35	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.

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 OLP 3120 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



Left (S1)

Right (S2)

Evolve™ LED Area Light (EALS)



 E = Evolve
 02 = 2nd
 0 = 120-2/1^2

 AL = Area Light
 Generation
 1 = 120

 S = Standard
 2 = 208
 3 = 240

 4 = 277
 5 = 480
 D = 347

 H = 347-480*
 * Not available

C1 = Integral Slip-fitter 2" Pipe (2.378 in. GRAY = Gray BLCK = Black DKBZ = Dark **SM** = Symmetric **7** = 70 (min) **30** = 3000K Medium **40** = 4000K N = Dimming A = ANSI 7-pin F = Fusing PE receptacle (no control) **40** = 4000K **50** = 5000K thru PE receptacle н = Motion Sensor Symmetric Wide SW D = ANSI 7-pin PE receptacle **D** = External 0D)* Bronze J = cUL/Canada AF = Asymmetric WHTE = White Dimming 3ft #18/2 D1 = Universal = Tool-Less Entry = Enhanced Surge Protection Т with shorting cap provided Forward Mounting R AW = Asymmetric Wide Cable Arm, fitted for (10kV/5kA) = Rotated Left[†] = Rotated Right[†] round or **S1** All constructions Note: See AN = Asymmetric square pole S2 * Not available supplied with ANSI C136.41 accessories section on page = NOM031 (Mexico)* = DALI dimming+^ = 3-Position Terminal Block Narrow AA = Asymmetric mounting** K1 = Knuckle M U with Fusing. Must choose 7-pin Receptacle 7 for PE Control Auto* Slipfitter for v a descreet ordering voltage with F Option Note: Standard 1.9 in - 2.3in. OD Tenon* ++ XXX = Special Options * AA distribution not available with dimming 0-10V * Contact Manufacturer for availability S1 = Knuckle options S1 and S2 + Compatible with LightGrid 2.0 nodes ^Not compatible at 347-480V or with Slipfitter for 2.3in. - 3.0in motion sensor control OD Tenon* ++ † For aimed left or right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric or Asymmetric Auto Distributions. V1 = Knuckle Wall Mount* ++ Supplied with 3FT 14-7 leads ** Supplied with 3ft Pole #14/3 power cable ++ Restricted Aiming Pole

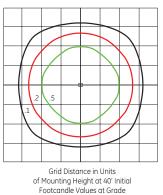
Angle 0° to +45°

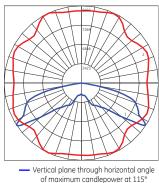
7

	OPTICAL CODE	DISTRIBUTION	LUM		TYPICAL SYSTEM WATTAGE 120-277V	BUG RATING 3000K, 4000K & 5000K		ООК	IES FILE NUMBER			
			3000K	& 5000K	& 347-480V	В	U	G	3000K	4000K	5000K	
	D5	Symmetric Medium	9700	10000	74	3	0	2	EALS02_D5SM730IES		EALS02_D5SM750IE	_
	F5	Symmetric Medium	14400	15000	119	4	0	2	EALS02_F5SM730IES	EALS02_F5SM740IES	EALS02_F5SM750IES	_
	H5	Symmetric Medium	19500	20000	171	4	0	2	EALS02_H5SM730IES	EALS02_H5SM740IES	EALS02_H5SM750IE	_
	J5	Symmetric Medium	24300	25000	230	5	0	3	EALS02_J5SM730IES	EALS02_J5SM740IES	EALS02_J5SM750IES	
TYPE V	K5	Symmetric Medium	28100	28700	281	5	0	3	EALS02_K5SM730IES	EALS02_K5SM740IES	EALS02_K5SM750IE	
Ţ	N5	Symmetric Wide	10500	10800	74	3	0	1	EALS02_N5SW730IES		EALS02_N5SW750IE	_
	Q5	Symmetric Wide	15700	16200	119	4	0	2	EALS02_Q5SW730IES		EALS02_Q5SW750IE	_
	S5	Symmetric Wide	21000	21600	171	4	0	2	EALS02_S5SW730IES	EALS02_S5SW740IES	EALS02_S5SW750IE	
	T5	Symmetric Wide	26400	27100	230	5	0	2	EALS02_T5SW730IES	EALS02_T5SW740IES	EALS02_T5SW750IE	_
	U5	Symmetric Wide	30200	31000	281	5	0	2	EALS02_U5SW730IES	EALS02_U5SW740IES	EALS02_U5SW750IE	ŝ
	D4	Asymmetric Forward	9700	10000	87	2	0	2	EALS02_D4AF730IES	EALS02_D4AF740IES	EALS02_D4AF750IES	ŝ
≥	F4	Asymmetric Forward	14500	15000	137	2	0	3	EALS02_F4AF730IES	EALS02_F4AF740IES	EALS02_F4AF750IES	;
TYPE IV	H4	Asymmetric Forward	19500	20000	171	3	0	4	EALS02_H4AF730IES	EALS02_H4AF740IES	EALS02_H4AF750IES	ŝ
ŕ	J4	Asymmetric Forward	24300	25000	230	3	0	4	EALS02_J4AF730IES	EALS02_J4AF740IES	EALS02_J4AF750IES	;
	K4	Asymmetric Forward	28100	28700	281	3	0	4	EALS02_K4AF730IES	EALS02_K4AF740IES	EALS02_K4AF750IES	5
	D3	Asymmetric Wide	10500	10800	87	2	0	2	EALS02_D3AW730IES	EALS02_D3AW740IES	EALS02_D3AW750IE	ËS
=	F3	Asymmetric Wide	15600	16100	137	2	0	2	EALS02_F3AW730IES	EALS02_F3AW740IES	EALS02_F3AW750IE	.S
TYPE III	H3	Asymmetric Wide	21000	21600	171	3	0	2	EALS02_H3AW730IES	EALS02_H3AW740IES	EALS02_H3AW750IE	ËS
₹	J3	Asymmetric Wide	26400	27100	230	3	0	3	EALS02_J3AW730IES	EALS02_J3AW740IES	EALS02_J3AW750IE	S
	K3	Asymmetric Wide	30200	31000	281	3	0	3	EALS02_K3AW730IES	EALS02_K3AW740IES	EALS02_K3AW750IE	S
	D2	Asymmetric Narrow	10300	10600	87	2	0	2	EALS02_D2AN730IES	EALS02_D2AN740IES	EALS02_D2AN750IE	S
_	F2	Asymmetric Narrow	15300	15900	137	3	0	3	EALS02_F2AN730IES	EALS02_F2AN740IES	EALS02_F2AN750IES	3
TYPE II	H2	Asymmetric Narrow	20700	21300	171	3	0	3	EALS02_H2AN730IES	EALS02_H2AN740IES	EALS02_H2AN750IE	S
₽	J2	Asymmetric Narrow	25900	26600	230	3	0	3	EALS02_J2AN730IES	EALS02_J2AN740IES	EALS02_J2AN750IES	3
	K2	Asymmetric Narrow	29700	30500	281	3	0	3	EALS02_K2AN730IES	EALS02_K2AN740IES	EALS02_K2AN750IE	S
AUTO	KA	Asymmetric Auto	33400	34000	281	4	0	3	EALS02_KAAA730IES	EALSO2_KAAA740IES	EALSO2_KAAA750IES	3

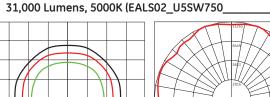
Photometrics Evolve™ LED Area Light (EALS)

EALS Type V - Symmetric Medium (K5) 28,700 Lumens, 5000K (EALS02_K5SM750_ .IES)





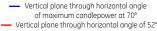
Vertical plane through horizontal angle of 57°



EALS Type V - Symmetric WIde (U5)

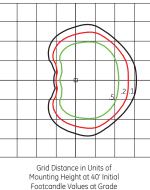


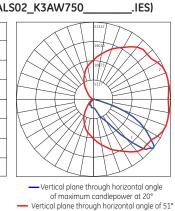




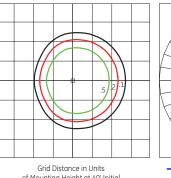
.IES)

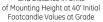
EALS Type III - Asymmetric Wide (K3) 31,000 Lumens, 5000K (EALS02_K3AW750_

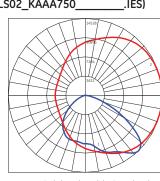




EALS - Assymetric Auto (KA) 34,200 Lumens, 5000K (EALS02_KAAA750 .IES)

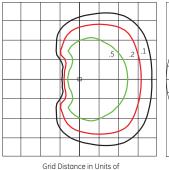




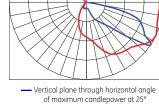


 Vertical plane through horizontal angle of maximum candlepower at 0° Vertical plane through horizontal angle of 44°

EALS Type IV - Asymmetric Forward (K4) 28,700 Lumens, 5000K (EALS02_K4AF750_ .IES)

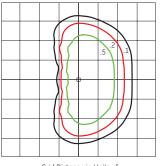




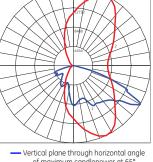


Vertical plane through horizontal angle of 57°

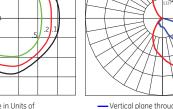
EALS Type II - Asymmetric Narrow (K2) 30,500 Lumens, 5000K (EALS02_K2AN750_ .IES)

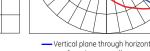






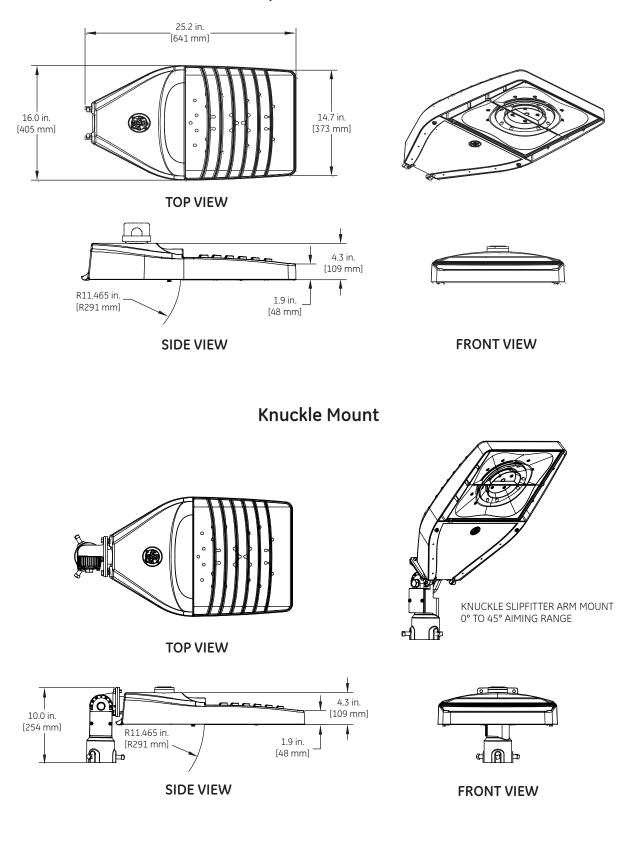
of maximum candlepower at 65° Vertical plane through horizontal angle of 60°





Product Dimensions Evolve™ LED Area Light (EALS)

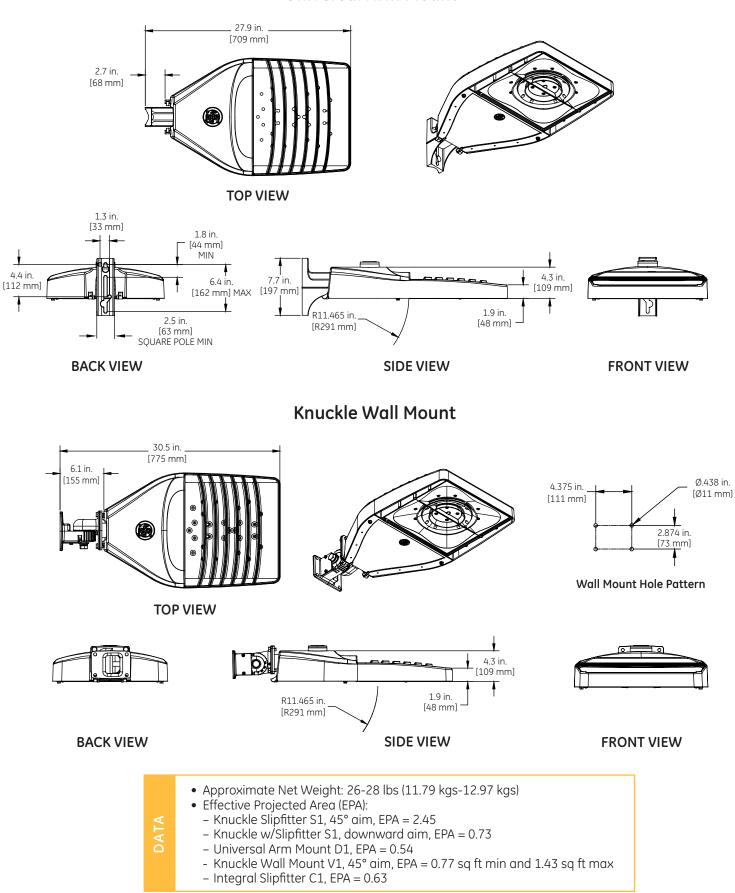
Slipfitter Mount



Product Dimensions

Evolve™ LED Area Light (EALS)

Universal Arm Mount



Accessories

Evolve™ LED Area Light (EALS)

PE Accessories (to be ordered separately)

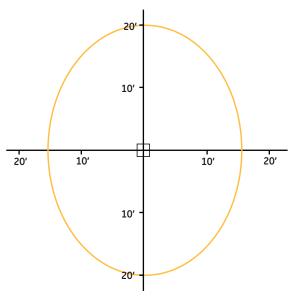
			SAP Number		
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V	28299	PECOTL	STANDARD 120-277V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V	28294	PEC5TL	STANDARD 480V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V	80436	PECDTL	STANDARD 347V
			73251	SCCL-PECTL	Shorting cap

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



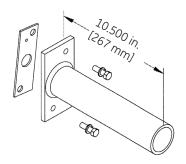
Mounting Information

Mounting Arms for Slipfitter

Order separately with Mounting Option C1 (Slipfitter)

SQUARE POLE MOUNTING ARM

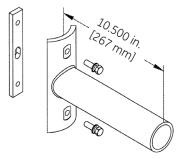
3.5 TO 4.5-inch (89 to 114mm) SQUARE (WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



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

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"

Wall Mounting Bracket Adapter Plate

ORDER SEPERATELY FROM FIXTURE AS CATALOG NUMBER WMB-EAMT06

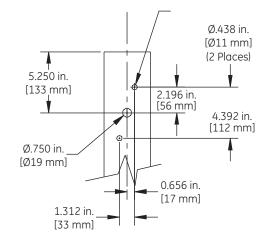
*NOTE: For Wall Mounting, order luminaire with mounting arm: C1 = Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

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



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SQUARE POLE MOUNTING DRILLING TEMPLATE



ROUND POLE MOUNTING DRILLING TEMPLATE

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

