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:

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<th>OPTICAL CODE</th>
<th>L95</th>
<th>L91</th>
<th>L84</th>
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Lumen Ambient Temperature Factors:

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<td>30</td>
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<tr>
<td>35</td>
<td>0.98</td>
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Ratings
- cUL Listed
- UL 1598 Listed Suitable for Wet Locations

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 2.3 in. - 3.0 in 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)

## Evolve™ LED Area Light (EALS)

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### Options
- **K** = 2nd Generation
- **A** = 208
- **L** = 277
- **M** = 480
- **H** = 347
- **D** = 347
- **N** = 347
- **S** = 347
- **F** = 120
- **E** = 120
- **Q** = 120
- **R** = 120
- **G** = 120
- **B** = 120
- **K** = 120
- **J** = 120
- **P** = 120
- **W** = 120

**Note:**
- For Symmetric or Asymmetric Auto Distributions.
- Not available with Fusing.
- 480 volt with Fusing.
- * Not available
- **S1** = 480
- **S2** = 240
- **S3** = 208
- **S4** = 120
- **S5** = 120

**Warning:**
- Contact Manufacturer for availability.
- 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.
- Not compatible with LightGrid 2.0 nodes.
Photometrics

Evolve™ LED Area Light (EALS)

EALS Type V - Symmetric Medium (K5)
28,700 Lumens, 5000K (EALS02_K5SM750________IES)

EALS Type V - Symmetric Wide (US)
31,000 Lumens, 5000K (EALS02_U5SW750________IES)

Vertical plane through horizontal angle of maximum candlepower at 115°

Vertical plane through horizontal angle of maximum candlepower at 0°

Vertical plane through horizontal angle of maximum candlepower at 70°

Vertical plane through horizontal angle of maximum candlepower at 70°

Vertical plane through horizontal angle of maximum candlepower at 57°

Vertical plane through horizontal angle of maximum candlepower at 52°

Vertical plane through horizontal angle of maximum candlepower at 51°

Vertical plane through horizontal angle of maximum candlepower at 51°

Vertical plane through horizontal angle of maximum candlepower at 44°

Vertical plane through horizontal angle of maximum candlepower at 65°

Vertical plane through horizontal angle of maximum candlepower at 60°

Vertical plane through horizontal angle of maximum candlepower at 60°

Vertical plane through horizontal angle of maximum candlepower at 0°

Vertical plane through horizontal angle of maximum candlepower at 0°

Vertical plane through horizontal angle of maximum candlepower at 0°

Vertical plane through horizontal angle of maximum candlepower at 0°
**Product Dimensions**
**Evolve™ LED Area Light (EALS)**

**Slipfitter Mount**

- **TOP VIEW**
  - 25.2 in. (641 mm)
  - 16.0 in. (405 mm)
  - 14.7 in. (373 mm)

- **SIDE VIEW**
  - 4.3 in. (109 mm)
  - 1.9 in. (48 mm)

- **FRONT VIEW**

**Knuckle Mount**

- **TOP VIEW**
  - 10.0 in. (254 mm)
  - 4.3 in. (109 mm)

- **SIDE VIEW**
  - R11 465 in. (R291 mm)
  - 1.9 in. (48 mm)

- **FRONT VIEW**

**KNUCKLE SLIPFITTER ARM MOUNT 0° TO 45° AIMING RANGE**
Product Dimensions
Evolve™ LED Area Light (EALS)

Universal Arm Mount

Top View

BACK VIEW

SIDE VIEW

FRONT VIEW

Knuckle Wall Mount

Top View

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 (EALS)**

**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**

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<th>Part Number</th>
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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 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.