Evolve™ LED Area Light
Scalable Area Light (EASB)
Product Features

The next evolution of the GE Evolve™ LED Area Light continues to deliver outstanding features, while adding greater flexibility, style and scalability. This latest design offers higher lumen outputs and provides photometric combinations with high efficacy, providing the ability to meet even a wider range of area lighting needs. Additionally, the new EASB Evolve Luminaire comes with a specially designed auto dealership optic for exceptional illuminance on the dealership’s front row. Optional programmable motion sensing for Title 24 compliance is available.

Applications

- Site, area, 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 small to large retailers, commercial to medical properties, and big box retailers.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life, and a reduced Effective Projected Area (EPA).
- Meets 2G vibration standards per ANSI C136.31-2010. For 3G rating contact manufacturer.

LED & Optical Assembly

- Structured LED arrays for optimized area light photometric distribution.
- Evolve light engine with directional reflectors designed to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 4000K and 5000K typical.

Lumen Maintenance

- System rating is L85 at 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours.

Mounting

Option A

- 10-inch (254mm) mounting arm for square pole prewired with 24-inch (610mm) leads.

Option B

- 10-inch (254mm) mounting arm for round pole prewired with 24-inch (610mm) leads.

Option C

- Slipfitter mounting for 2 3/8-inch (60mm) O.D. pipe prewired with 24-inch (610mm) leads.

Option S

- Knuckle Slipfitter mounting for 2.3-3" O.D. pipe, pre-wired with 24-inch (610mm) leads.

Finish

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

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.*
- Class “A” sound rating.
- Photo electric sensors (PE) available for all voltages.
- GE dimmable PE socket is available making the unit “adaptive controls ready.” Contact manufacturer for details.
- Surge Protection Options: For 120-277VAC and 347-480VAC per IEEE/ANSI C136.2-2014.
  - 6kV/3kA “Basic” surge protection, standard.
  - 10kV/5kA “Enhanced” surge protection available with R option.

Ratings

- listed, suitable for wet locations.
- listed with option code “J” SKUs.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at ~40° to 50°C (~40° to 35°C for 412W fixtures). Delayed start may be experienced below -35° C.
- Upward Light Output Ratio (ULOR) = 0.
- Title 24 compliant with “H” motion sensor option.
- Compliant with the material restriction requirements of RoHS.

* System power factor and THD is tested and specified at 120V input and maximum load conditions.
## Ordering Number Logic

**Evolve™ LED Scalable Area Light (EASB)**

<table>
<thead>
<tr>
<th>OPTICAL CODE</th>
<th>TYPE</th>
<th>TYPICAL INITIAL LUMENS</th>
<th>TYPICAL SYSTEM Wattage</th>
<th>DISTRIBUTION ORIENTATION</th>
<th>BUG RATING</th>
<th>IES FILE NUMBER</th>
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<tr>
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**Optical Code**: The optical code is composed of two letters and a number. The first letter indicates the area scalability (E, A, S), the second letter indicates the photometric type (V, T, II, III), and the number indicates the type and size of the luminaire. **E** = Evolve, **A** = Area, **S** = Scalable.

**Photometic Type**: The photometric type indicates the design of the luminaire. **V** = Type V, **T** = Type T, **II** = Type II, **III** = Type III.

**VOLTAGE**: The voltage range of the luminaire is listed as 120-277V or 4000K 5000K.

**CODE**: The code for the luminaire is listed as **N** for Not Applicable, **R** for Right, and **L** for Left.

**Drive Current**: The drive current is listed as **525mA** or **700mA**.

**LED Color Temp**: The LED color temperature is listed as **4000K** and **5000K**.

**PE Function**: The PE function is listed as **None**, **3-pin PE**, **7-pin PE**, or **3-pin PE with Shorting Cap**.

**Mounting Arm**: The mounting arm is listed as **Front (F)**, **Left (L)**, or **Right (R)**.

**Color**: The color of the luminaire is listed as **Black** or **Dark Bronze**.

**Options**: The options include **Contact Manufacturer for other colors**, **Dimmable**, and **Adjustable Vertical Aiming Angles**.

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### TYPICAL INITIAL LUMENS

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<th>Code</th>
<th>Symmetric Medium</th>
<th>Symmetric Short</th>
<th>Symmetric Narrow</th>
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**Note**: The table above provides the minimum and maximum initial lumens, system wattage, and distribution orientation for each optical code. The BUG ratings are for reference only and may vary depending on the specific application. Contact the manufacturer for detailed information.

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**Light Pattern**: The light pattern is shown in the diagram, indicating how the light is dispersed in relation to the pole and fixture. The light is shown in different colors to indicate the direction and intensity of the light. The light pattern is achieved through a combination of design elements such as reflectors, lenses, and optical coatings.
Photometrics

EASB Type V - Symmetric Medium (K5)
32,000 Lumens, 5000K (GE456890.ies)

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

EASB Type V - Symmetric Short (U5)
35,600 Lumens, 5000K (GE456897.ies)

Vertical plane through horizontal angle of maximum candlepower at 45°
Vertical plane through horizontal angle of 72.5°

EASB Type IV - Asymmetric Forward (K4)
33,000 Lumens, 5000K (GE456907.ies)

Vertical plane through horizontal angle of maximum candlepower at 45°
Vertical plane through horizontal angle of 72.5°

EASB Type IV - Asymmetric Forward (E4)
13,300 Lumens, 5000K (GE456902.ies)

Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade

EASB Type III - Asymmetric Wide (K3)
36,000 Lumens, 5000K (GE456917.ies)

Vertical plane through horizontal angle of maximum candlepower at 20°
Vertical plane through horizontal angle of 52.5°

EASB Type III - Asymmetric Wide (E3)
14,500 Lumens, 5000K (GE456912.ies)

Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade

EASB Type II - Asymmetric Narrow (K2)
34,700 Lumens, 5000K (GE456927.ies)

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

EASB Type II - Asymmetric Narrow (E2)
13,900 Lumens, 5000K (GE456922.ies)

Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade
Photometrics

EASB Type II - Asymmetric Auto (KA)
38,800 Lumens, 5000K (GE456928.ies)

Product Dimensions

10” Arm For Square Pole Mount
(Option A)

DATA
• Approximate net weight: 43-47 lbs (19.50 - 21.32 kgs)
  Contact manufacturer for specific configuration weight.
• Effective Projected Area (EPA) with 10” Mounting Arm: 0.97 sq ft max (0.09 sq m)
Product Dimensions

10” Arm For Round Pole Mount (Option B)

- Approximate net weight: 43-47 lbs (19.50 - 21.32 kgs)
  Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with 10” Mounting Arm: 0.97 sq ft max (0.09 sq m)

Slipfitter Arm Mount (Option C)

- Approximate net weight: 41-45 lbs (18.60 - 20.41 kgs)
  Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with Slipfitter: 0.47 sq ft max (0.04 sq m)
Knuckle Arm Mount
(Option S)

- Approximate net weight: 41-45 lbs (18.60 - 20.41 kgs)
  Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with fixture mounted at 45° upward: 1.97 sq ft max
H-Motion Sensing Option:

- Intended for high mounting applications, between 15-45ft (4.57-9.14m).
- Comes standard with 50% dimmed light output with no occupancy, and full power at occupancy.
- Comes standard with photocell function. Note: It is not necessary to also purchase PE receptacle or control.
- Comes standard with a 5 minute occupancy time delay and a 5 minute ramp-down to the 50% dimmed level.
- Must order with decorative mounting arm options “A” or “B”.
- 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
15 - 45 ft.
Mounting Information

Mounting Arms for Slipfitter
Order separately with Mounting Option C (External 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
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”

Drilling Templates for Slipfitter Arms & Arm Mount

SQUARE POLE MOUNTING

ROUND POLE MOUNTING

Wall Mounting Bracket Adapter Plate
ORDER SEPERATELY FROM FIXTURE AS CATALOG NUMBER
WMB-EAMT06

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

www.gelighting.com

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