Product Features

The Evolve™ LED High Mast is an LED solution for expressway, freeway interchanges and other large area applications. GE’s unique reflective optics are designed to optimize application efficiency and minimize glare. This reliable unit has a 100,000-hour design life, significantly reducing maintenance needs and expense over the life of the fixture. The ERHM luminaire is an efficient solution lowering energy consumption as compared to traditional HID fixtures providing additional operating cost savings.

Applications

- Designed to meet recommended luminance and illuminance requirements for High Mast Applications such as Airport Lighting, Expressway and Freeway Interchanges, Port Facilities, Trailer/Container Yard and Rail Yard Operations.

Housing

- Cast aluminum optical and electrical housings.
- Meets 3G vibration standards per ANSI C136.31-2010

LED & Optical Assembly

- Field rotatable optics: Asymmetric B3, C3, D3 only
- Evolve™ light engine using reflective technology to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 3000K & 4000K CCT typical.
- LM-79 tests and reports in accordance with IESNA standards.

Lumen Maintenance

- Projected L90>60,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25°C for reference:

<table>
<thead>
<tr>
<th>SKU</th>
<th>L90</th>
<th>L93</th>
<th>L85</th>
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<tbody>
<tr>
<td>ERHM</td>
<td>25,000 HR</td>
<td>50,000 HR</td>
<td>100,000 HR</td>
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| NOTA: | 1) Projected Lxx based on LM-80 (6,000 hour testing).
|       | 2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

Ratings

- Listed, suitable for wet locations per UL 1598.
- Temperature rated at -40° to +40°C
- IK07
- Compliant with the material use restrictions of RoHS.
- IDA FSA Approved (3000K CCT only)
- Please refer to the DLC QPL website for the latest and most complete information. [www.designlights.org/QPL](http://www.designlights.org/QPL)

Electrical

- 120-277V and 347-480V
- System power factor is >90% and THD<20%
- Class “A” sound rating
- Surge protection per ANSI C136.2-2015:
  - Standard: 10kV/5kA “Enhanced”: (40 Strikes)
  - Optional: 20kV/10kA “Elevated: (40 Strikes)
- Photo electric sensors (PE) available
- ANSI C136.41 PE receptacle
- Analog 0-10V
- Optional single and double fusing
- EMI: Title 47 CFR part 15 class A

Warranty

- 5 Year standard
- 10 Year option

Suggested HID Replacement Lumen Levels

- ~28,800 -40,000 lm to replace 400W HID luminaires.
- ~47,000 -50,000 lm to replace 750W HID luminaires.
- >60,000 lm to replace 1000W HID luminaires.
**Ordering Number Logic**

**Evolve LED High Mast Luminaire**

<table>
<thead>
<tr>
<th>PROD. ID</th>
<th>GENERATION</th>
<th>VOLTAGE</th>
<th>LUMEN OUTPUT</th>
<th>TYPICAL INITIAL LUMENS</th>
<th>TYPICAL WATTS</th>
<th>BUG RATINGS</th>
<th>IES FILE NUMBER</th>
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<td>ERHM02</td>
<td>02</td>
<td>4B</td>
<td>347-480V</td>
<td>120-277V</td>
<td>0-10V</td>
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*Roadway number based on C3

*IES files for B3 and D3 pending (Target date Feb '19)
Photometrics

ERHM B3 Type II Wide 74,000lm

Grid Distance in Units
of Mounting Height at 60' Initial
Footcandle Values at Grade

ERHM C3 Type III Wide 74,000lm

Grid Distance in Units
of Mounting Height at 60' Initial
Footcandle Values at Grade

ERHM D3 Type IV 74,000lm

Grid Distance in Units
of Mounting Height at 60' Initial
Footcandle Values at Grade

ERHM D3 Type V 84,000lm

Grid Distance in Units
of Mounting Height at 60' Initial
Footcandle Values at Grade

Vertical plane through horizontal angle
of maximum candlepower at 75°
Horizontal cone through vertical angle of 69°

Vertical plane through horizontal angle
of maximum candlepower at 75°
Horizontal cone through vertical angle of 70°

Vertical plane through horizontal angle
of maximum candlepower at 0°
Horizontal cone through vertical angle of 54°

Vertical plane through horizontal angle
of maximum candlepower at 70°
Horizontal cone through vertical angle of 65°
Product Dimensions
Evolve LED High Mast Luminaire • ERHM (For Distribution VW)

DATA
• Weight: 52 lbs (max.)
• Effective Projected Area: 2 ft² (max.)
Product Dimensions
Evolve LED High Mast Luminaire • ERHM (For Distributions B3, C3, and D3)

- Weight: 54 lbs (max.)
- Effective Projected Area: 2 ft² (max.)

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