

High Mast Luminaire (ERHM)

## Product Features

The Evolve ${ }^{T M}$ 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.
- Evolve ${ }^{T M}$ light engine using reflective technology to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 3000K \& 4000 K 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 $25^{\circ} \mathrm{C}$ for reference:

|  | LXX (10K)@HOURS |  |  |
| :---: | :---: | :---: | :---: |
| SKU | 25,000 HR | 50,000 HR | 100,000 HR |
| ERHM | L95 | L93 | L88 |

NOTES: 1) Projected Lxx based on LM-80 (10,000 hour testing). 2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

## Lumen Ambient Temperature Factors:

| LUMEN AMBIENT TEMPERATURE FACTORS:    <br> AMBIENT    <br> INITIAL    |  |
| :---: | :---: |
| TEMPERATURE $\left({ }^{\circ} \mathrm{C}\right)$ | FLUX FACTOR |
| 10 | 1.02 |
| 20 | 1.01 |
| 25 | 1.00 |
| 30 | 0.99 |
| 40 | 0.98 |
| 45 | 0.97 |

## Ratings

- (HL/c(1L) listed, suitable for wet locations per UL 1598.
- IP66 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at $-40^{\circ}$ to $45^{\circ} \mathrm{C}$.
- Upward Light Output Ratio (ULOR) $=0$
- Compliant with the material use restrictions of RoHS.


## Please refer to the DLC QPL website for the latest and most

## Mounting

- 4 Bolt Slipfitter with +/- 5 degree of adjustment
- Integral mounting pipe stop
- 2 in. (2.375" OD) mounting pipe


## Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard color: Gray.
- RAL \& custom colors available.
- Coastal Finish option*
* Check with manufacturer for availability


## Electrical

- 120-277 volt and 347-480 volt
- System power factor is $>90 \%$ and THD<20\%
- Class "A" sound rating
- Surge protection per ANSI C136.2-2015:
- Standard: 6kV/3kA "Basic": (120 strikes)
- Optional: 10kV/5kA "Enhanced": (40 Strikes)
- Photo electric sensors (PE) available
- ANSI C136.41 PE receptacle
- Analog 0-10V or optional DALI dimming
- 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

- ~28,800-42,700 Im to replace 400W HID luminaires.
- ~46,500-53,400 Im to replace 750W HID luminaires.
- ~50,900-58,300 Im to replace 1000W HID luminaires.




## Photometrics

ERHM Type II - Asymmetric Medium (E1)
58,300 Lumens, 5000K (ERHM_60E1740__.IES)


ERHM Type III - Asymmetric Extra Wide (G1) 58,300 Lumens, 5000K (ERHM_60G1740 .IES)


ERHM Type IV - Asymmetric Wide (F1) 58,300 Lumens, 5000K (ERHM 60F1740 .IES)


ERHM Type V - Short (VS)
56,600 Lumens, 5000K (ERHM_60VS740__..IES)


Grid Distance in Units
Mounting Height at $60^{\prime}$ Initial
Footcandle Values at Grade


- Vertical plane through horizontal angle of maximum candlepower at $45^{\circ}$

ERHM Type V - Medium (VM)
53,000 Lumens, 5000K (ERHM_60VM740__.IES


## Product Dimensions

Evolve LED High Mast Luminaire • ERHM (For Distributions VS \& VM)


Bottom View
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- Weight: 54 lbs (max.)
- Effective Projected Area: $2 \mathrm{ft}^{2}$ (max.)


## Product Dimensions

Evolve LED High Mast Luminaire • ERHM (For Distributions E1, F1 \& G1)

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- Weight: 54 lbs (max.)
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