



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.
- 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:

	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:							
AMBIENT TEMPERATURE (°C)	INITIAL FLUX FACTOR						
10	1.02						
20	1.01						
25	1.00						
30	0.99						
40	0.98						
45	0.97						

Ratings

- (h)/(e) listed, suitable for wet locations per UL 1598.
- IP66 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 45°C.
- Upward Light Output Ratio (ULOR) = 0
- Compliant with the material use restrictions of RoHS.



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 lm to replace 400W HID luminaires.
- ~46,500 -53,400 lm to replace 750W HID luminaires.
- $\bullet~$ ~50,900 -58,300 lm to replace 1000W HID luminaires.

Ordering Number Logic Evolve LED High Mast Luminaire



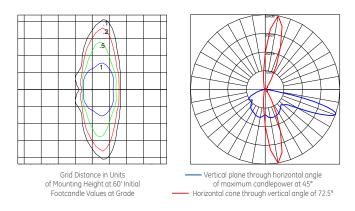
4 B ERHM 01

PROD. ID GE	ENERATION	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION	l CRI	ССТ	DIMMING	CONTROLS	MOUNTING	COLOR	OPTIONS
E = Evolve R = Roadway H = High M = Mast		1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347	30 40 50 60 See Data Table for more information.	E1 = Type II Asym Med F1 = Type IV Asym Wide G1 = Type III Asym Extra Wide VS = Type V Short* VM = Type V Medium* *Not available: 30 Lumen outp		30 = 3000K<> 40 = 4000K <> Select 3000 CCT for IDA approved units	N = No Dimming Control Wiring D = Dimming Control Wiring Included* * Dimming control wiring included to connect dimming control external to the fixture. Note: Dimming controls wired for 0-10V standard unless DALI option "U" requested.	1 = None A = ANSI C136.41 7-Pin Receptacle D = ANSI C136.41 7-Pin Receptacle with Shorting Cap E = ANSI C136.41 7-Pin Receptacle with Shorting Cap E = ANSI C136.41 7-Pin Receptacle with Non-Dimming PE control.* *PE Control Only available for 480V Discrete. Not available for 347-480V or 347V Discrete. Note: Dimming controls wired for 0-10V standard unless DALI option "U" requested.		GRAY = GRAY BLCK = BLACK	F = Fusing R = Secondary Enhanced Surge Protection (10kV/5kA) U = DALI Programmable* Y = Coastal Construction* XXX = Special Options Not available in 347V, 480V or 347-480V. *Recommended for installations within 1 mile from the coast. Contact Manufacturer for Availability.

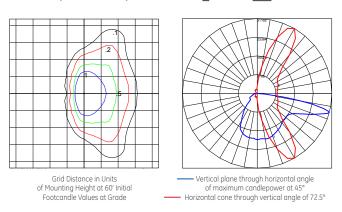
	LUMEN OUTPUT	DISTRIBUTION		INITIAL IENS 4000K	TYPICAL SYSTEM WATTAGE	BUG RA 3000K	ATINGS 4000K	IES FILE NUMBER 3000K 4000K	
Γ	30	E1	28,800	30,000	253	B4-U0-G3	B4-U0-G3	ERHM01_30E1730IES	ERHM01_30E1740IES
		F1	28,800	30,000	253	B4-U0-G4	B4-U0-G4	ERHM01_30F1730IES	ERHM01_30F1740IES
L		G1	28,800	30,000	253	B4-U0-G4	B4-U0-G4	ERHM01_30G1730IES	ERHM01_30G1740IES
Γ	40	E1	37,500	39,000	320	B4-U0-G3	B4-U0-G3	ERHM01_40E1730IES	ERHM01_40E1740IES
ı		F1	37,500	39,000	320	B4-U0-G4	B4-U0-G4	ERHM01_40F1730IES	ERHM01_40F1740IES
ı		G1	37,500	39,000	320	B4-U0-G4	B4-U0-G4	ERHM01_40G1730IES	ERHM01_40G1740IES
ı		VS	41,000	42,700	350	B5-U0-G3	B5-U0-G3	ERHM01_40VS1730IES	ERHM01_40VS1740IES
		VM	38,400	40,000	350	B5-U0-G4	B5-U0-G4	ERHM01_40VM1730IES	ERHM01_40VM1740IES
Γ	50	E1	46,500	48,400	402	B4-U0-G4	B5-U0-G4	ERHM01_50E1730IES	ERHM01_50E1740IES
		F1	46,500	48,400	402	B4-U0-G5	B5-U0-G5	ERHM01_50F1730IES	ERHM01_50F1740IES
ı		G1	46,500	48,400	402	B4-U0-G5	B5-U0-G5	ERHM01_50G1730IES	ERHM01_50G1740IES
		VS	51,300	53,400	445	B5-U0-G3	B5-U0-G3	ERHM01_50VS1730IES	ERHM01_50VS1740IES
L		VM	48,100	50,000	445	B5-U0-G4	B5-U0-G4	ERHM01_50VM1730IES	ERHM01_50VM1740IES
Γ	60	E1	56,000	58,300	501	B5-U0-G4	B5-U0-G4	ERHM01_60E1730IES	ERHM01_60E1740IES
		F1	56,000	58,300	501	B5-U0-G5	B5-U0-G5	ERHM01_60F1730IES	ERHM01_60F1740IES
		G1	56,000	58,300	501	B5-U0-G5	B5-U0-G5	ERHM01_60G1730IES	ERHM01_60G1740IES
		VS	54,400	56,600	475	B5-U0-G4	B5-U0-G4	ERHM01_60VS1730IES	ERHM01_60VS1740IES
		VM	50,900	53,000	475	B5-U0-G4	B5-U0-G4	ERHM01_60VM1730IES	ERHM01_60VM1740IES

Photometrics

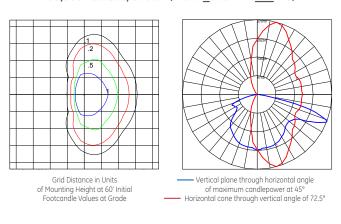
ERHM Type II - Asymmetric Medium (E1) 58,300 Lumens, 5000K (ERHM_60E1740___.IES)



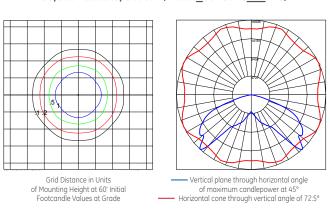
ERHM Type IV - Asymmetric Wide (F1) 58,300 Lumens, 5000K (ERHM_60F1740___.IES)



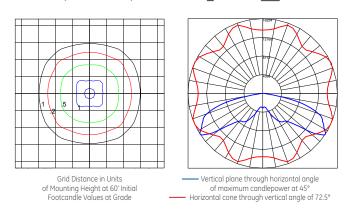
ERHM Type III - Asymmetric Extra Wide (G1) 58,300 Lumens, 5000K (ERHM_60G1740___.IES)



ERHM Type V - Short (VS)
56,600 Lumens, 5000K (ERHM_60VS740___.IES)

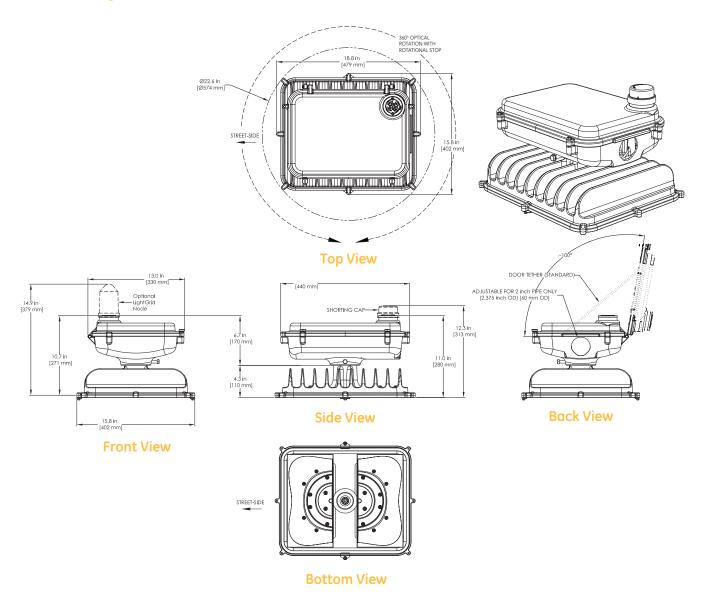


ERHM Type V - Medium (VM) 53,000 Lumens, 5000K (ERHM_60VM740___.IES)



Product Dimensions

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

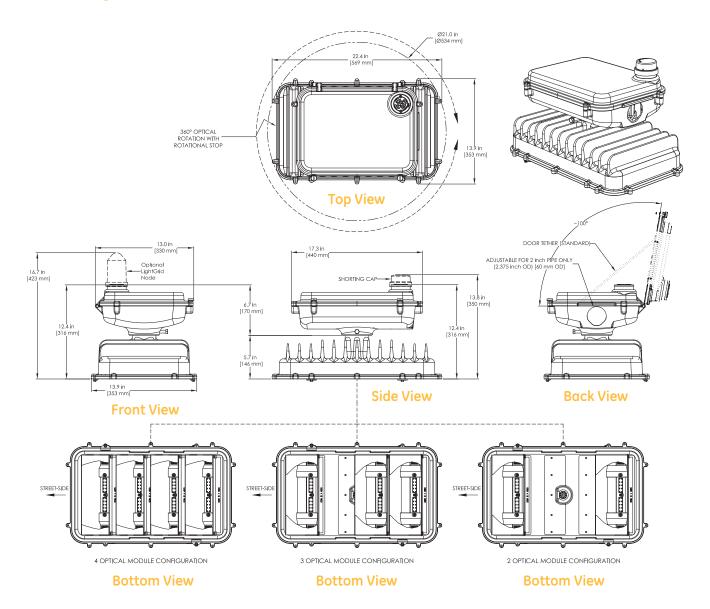


DATA

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

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



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