Evolve™ LED Flood Lighting

EFH1

current powered by GE
Product Features

The GE Evolve™ LED High Output Flood Light is our brightest solution to efficiently illuminate building façade, flag poles, billboard signage and many more traditional flood applications. Designed to replace 250W-400W HPS and 400W-1000W Metal Halide flood lights, the EFH1 provides significant operating cost benefits over the life of each fixture with reduced energy consumption and a long rated life that virtually eliminates ongoing maintenance expenses.

Applications

• Site, area, and general lighting applications utilizing advanced LED reflective optical system.

Housing

• Die-cast aluminum housing.
• Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life.
• Meets 2G vibration with knuckle mount and 3G with trunnion mount.

Optical System

• Evolve™ light engine consisting of reflective technology designed to optimize application efficiency and minimize glare.
• LM-79 tests and reports are performed in accordance with IESNA standards.
• 70 CRI at 3000K, 4000K and 5000K typical
• NEMA Distributions: 6x5, 6x6, 7x6 and 7x7.

Ratings

• Listed, suitable for wet locations.
• IP66 optical enclosure per ANSI C136.25-2009
• Temperature Rated at -40°C to +50°C
• Complies with the material restrictions of RoHS.

Mounting

Option K
• K1 = Knuckle Slipfitter for 1.9 in. - 2.3 in. OD Tenon, with wires exiting tenon.
• K2 = Knuckle Slipfitter for 1.9 in. - 2.3 in. OD Tenon, external 3ft #14/3 power cable.

Option S
• S1 = Knuckle Slipfitter for in. - 3.0 in. PP OD Tenon.
• S2 = Knuckle Slipfitter for in. - 3 in. PP OD Tenon, with external 3ft #14/3 power cable.

Option V
• V1 = Knuckle Wall Mount. Lead wires exiting tenon.

Option T
• T1 = Trunnion, with external 3ft #14/3 power cable.

Finish

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

Electrical

• 120-277 VAC and 347-480 VAC available.
• System power factor is >90% and THD <20%.
• ANSI C136.41 PE Socket Standard. Light Grid compatible.
• Dimming:
  - 0-10V continuous dimming standard.
  - DALI digital dimming available. Contact manufacturer.
• DALI compatible drivers available in 120-277 VAC.
• Surge Protection; per ANSI C136.2-2015.
  - 6kV/3kA “Basic” surge protection, standard.
  - 10kV/5kA “Enhanced” surge protection, optional.
• EMI: Title 47 CFR Part 15 Class A

Warranty

• 5yr standard warranty

Accessories

• Top & Side Visor
• Wire Guard
• Vandal Shield
• Barn Door Assembly

Lumen Maintenance

<table>
<thead>
<tr>
<th>Ambient Temp.</th>
<th>Optical Code</th>
<th>Projected1 25K Hour</th>
<th>Projected1 50K Hour</th>
<th>Projected1 88K Hour</th>
<th>Projected1 100K Hour</th>
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<tbody>
<tr>
<td>5°C (41°F)</td>
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<td>35°C (95°F)</td>
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Note: Based on 10,000 hours LM-80 data. For details, see http://www.energystar.gov/ia/partners/prod_development/eval_specifications/ENERGY_STAR_Final_Lumen_Maintenance_Guidance.pdf.

1 In accordance with IESNA TM-21-11, Projected Values represent interpolated values based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip.
2 In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip.

DLC Premium qualified models available. Please refer to http://www.designlights.org/QL for complete information.
## Ordering Number Logic

**Evolve™ LED High Output Flood Light (EFH1)**

### EFH1 01 7

<table>
<thead>
<tr>
<th>PROD ID</th>
<th>GENERATION</th>
<th>VOLTAGE</th>
<th>OPTICAL CODE</th>
<th>DISTRIBUTION</th>
<th>CRI</th>
<th>CCT</th>
<th>DIMMING</th>
<th>CONTROLS</th>
<th>MOUNTING</th>
<th>FINISH</th>
<th>OPTIONS</th>
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<tbody>
<tr>
<td>E = Evolve FH = Flood H-Series 1 = Standard</td>
<td>01 = 1st Generation</td>
<td>0 = 120-277V</td>
<td>PE Accessories (to be ordered separately)</td>
<td>D = External Dimming</td>
<td>N = Non-Dimmable+</td>
<td>A = ANSI C136.41 7-pin Receptacle++</td>
<td>D = Shorting Cap</td>
<td>A = No Control</td>
<td>Aiming Angle</td>
<td>Knuckle Slipfitter for 1.9 in. - 2.3 in. OD Tenon</td>
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#### Optical Code

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#### PE Accessories (to be ordered separately)

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Photometrics
Evolve™ LED High Output Flood Light (EFH1)

77-EE
38,700 Lumens, 4000K (EFH101_EE77740__ies)

76-EE
37,800 Lumens, 4000K (EFH101_EE76740__ies)

66-EE
37,400 Lumens, 4000K (EFH101_EE66740__ies)

65-EE
35,500 Lumens, 4000K (EFH101_EE65740__ies)
Product Dimensions
Evolve™ LED High Output Flood Light (EFH1)

Trunnion Mounting

Slipfitter Mounting
**Product Dimensions**

**Evolve™ LED High Output Flood Light (EFH1)**

**Wall Mounting**

**PE Aiming Restrictions**

- **Approximate net weight:** 35 lbs (15.9 kgs)
- **Effective Projected Area:**
  - Vertical 3.51 sq ft (0.33 sq M) (aimed at horizon)
  - Tilted 1.79 sqft (0.17 sq M) (aimed down 45 degrees)
Accessories
Evolve™ LED High Output Flood Light (EFH1)

Top And Side Visor
Ordering Logic: TSVGRAY-EFH
    TSVBLCK-EFH
    TSVDKBZ-EFH
    TSVHITE-EFH

Vandal Shield
Ordering Logic: VAN-EFH

Wire Guard
Ordering Logic: WG-EFH

Barn Doors
Ordering Logic: BDAGRAY-EFH
    BDABLCK-EFH
    BDADKBZ-EFH
    BDAMHITE-EFH