Evolve™ LED Flood Lighting

EFH1
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
• DLC Listed.

Please refer to the DLC QPL website for the latest and most complete information.

www.designlights.org/QPL

Lumen Maintenance

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<th>Ambient Temp.</th>
<th>Optical Code</th>
<th>Projected1 25K Hour</th>
<th>Projected1 50K Hour</th>
<th>Projected1 88K Hour</th>
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Note: Based on 10,000 hours LM-80 data. For details, see http://www.energystar.gov/ia/partners/prod_development/new_specs/downloads/luminaires/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.

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 2.3 in. - 3.0 in. OD Tenon. Lead wires exiting tenon.
• S2 = Knuckle Slipfitter for 2.3 in. - 3 in. 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.

Warranty

• 5yr standard warranty

Accessories

• Top & Side Visor
• Wire Guard
• Vandal Shield
• Barn Door Assembly
## Ordering Number Logic

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

### PROD ID | GENERATION | VOLTAGE | OPTICAL CODE | DISTRIBUTION Code | CRI | CCT | DIMMING | CONTROLS | MOUNTING | FINISH | OPTIONS
---|---|---|---|---|---|---|---|---|---|---|---
E = Evolve FH = Flood H-Series 1 = Standard
0 = 120-277* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 347 H = 347-480* 65 = NEMA 6x5 66 = NEMA 6x6 76 = NEMA 7x6 77 = NEMA 7x7 7 = 70 (min) 

### Optical Code

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### PE Accessories (to be ordered separately)

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*F = Fusing, L = Tool-Less Entry, M = NOM31, P = Prewired with 6 FT #14/3 cable**
*R = Enhanced Surge Protection (10kV/5kA), T = Elevated Surge Protection (20kV/10kA), U = Universal DALI digital dimming**, V = 3-Pin Terminal Block
XXX = Special Options
*Contact manufacturer when Dimming option is selected without Dimming PE, a #14-2 cable will be supplied at length above
*Compatible with Light Grid 2.0 nodes

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[Image of LED flood lights]
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 sq ft (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
TSVWHITE-EFH

Vandal Shield
Ordering Logic: VAN-EFH

Wire Guard
Ordering Logic: WG-EFH

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