



CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

EFH1 Series

High Output LED Flood Light
Mounting & Accessories

Construction

| | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing: | Aluminum die cast enclosure. Integral heat sink for maximum heat transfer |
| Lens: | Impact resistant tempered glass |
| Paint: | Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze, Gray, White (RAL & custom colors available) Optional = Coastal Finish |
| Weight: | 35 lbs (15.9 kgs) |

Optical system

| | |
|----------------------|----------------------------|
| Lumens: | 23,400 - 59,000 |
| Distribution: | 3x3, 6x5, 6x6, 7x6, 7x7 |
| Efficacy: | 121 -164 LPW |
| CCT: | 2700K, 3000K, 4000K, 5000K |
| CRI: | ≥70 |

Electrical

| | |
|-----------------------------------|----------------------|
| Input Voltage: | 120-277V, 277-480V |
| Input Frequency: | 50/60 Hz |
| Power Factor: | ≥ 90% at rated watts |
| Total Harmonic Distortion: | ≤ 20% at rated watts |

Surge Protection*

| Typical | Enhanced | Extreme |
|----------|-----------|------------|
| 6kV/3kA* | 10kV/5kA* | 20kV/10kA* |

*Per ANSI C136.2-2015

Warranty

5 Year (Standard)

10 Year (Optional)

Lumen Maintenance

Projected Lxx per IES TM-21-11 at 25°C

| Lumen Codes | Distribution | LXX(10K) @ Hours | | |
|--------------------|--------------------|------------------|-----------|-----------|
| | | 25,000 HR | 50,000 HR | 60,000 HR |
| 30, 35, 40, 45, 50 | 77, 76, 67, 66, 65 | L97 | L94 | L93 |
| 30, 35, 40, 45, 50 | 33 | L96 | L94 | L94 |
| 55 | 77, 76, 66, 65 | L96 | L92 | L91 |
| 60 | 77, 76, 66 | L96 | L92 | L90 |

Note: Projected LXX based on LM80 (> 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements.

Luminaire Ambient Temperature Factor

| Ambient Temp (°C) | Initial Flux Factor | Ambient Temp (°C) | Initial Flux Factor |
|-------------------|---------------------|-------------------|---------------------|
| 10 | 1.02 | 30 | 0.99 |
| 20 | 1.01 | 40 | 0.98 |
| 25 | 1.00 | 50 | 0.97 |

Ratings

| | |
|-------------------------------|-----------------------------------------------------------------------|
| Operating Temperature: | -40° C to 50° C |
| Vibration^: | 2G - Slipfitter Mounting K1, K2, S1 & S2 3G - Trunnion Mounting T1 |
| LM-79: | Testing in accordance with IESNA Standards |

^Per ANSI C136.31-2010

Controls

| | |
|-----------------|----------------------------------------------------------------------------|
| Dimming: | Standard - 0-10V Optional - DALI (Option U) |
| Sensors: | Photo Electric Sensors (PE) available LightGrid and Daintree Compatible |



Visit www.designlights.org/search to confirm qualifications.

Ordering Information

EFH1 02

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| PROD. ID | GEN | VOLTAGE | LUMENS | DISTRIBUTION | CRI | CCT | DIMMING | CONTROLS | MOUNTING | COLOR | OPTIONS |
|----------------|-----|---------------------------|-------------------------------|---------------|--------|------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|------------------------------------------------------|
| E=Evolve | 02 | 0 = 120-277V ¹ | 30 = 30,000 lm | 33 = NEMA 3x3 | 7 = 70 | 27 = 2700K | A = ANSI C136.41 7-Pin Receptacle ⁴ | A = No Control | K1 = Knuckle slipfitter 1.9 in. - 2.3 in OD Tenon ⁶ | GRAY = Gray | F = Fusing ¹ |
| FH= Flood High | | 1 = 120V | 35 = 35,000 lm | 65 = NEMA 6x5 | | 30 = 3000K | D = No receptacle, with external dimming 18/2 3 ft cable | D = Shorting Cap ⁵ | K2 = Knuckle slipfitter 1.9 in. - 2.3 in OD Tenon Supplied with 14/3 3ft power cable | BLCK = Black | H2 = Daintree Enabled ^{7,8} motion Sensor |
| 1= Standard | | 2 = 208V | 40 = 40,000 lm | 66 = NEMA 6x6 | | 40 = 4000K | N = No PE Receptacle & Non Dimmable | E = ANSI C136.41 7-pin with non-Dimming PE Control ⁵ | S1 = Knuckle slipfitter 2.3-3.0 in. OD Tenon ⁸ | DKBZ = Dark Bronze | H4 = Motion Sensor (FSP221) ⁸ |
| | | 3 = 240V | 45 = 45,000 lm | 76 = NEMA 7x6 | | 50 = 5000K | P = ANSI C136.41 7-Pin Receptacle with external dimming 18/2 3 ft cable ⁴ | | S2 = Knuckle slipfitter 2.3-3.0 in. OD Tenon, Supplied with 14/3 3ft power cable | WHITE = White | L = Tool-Less Entry |
| | | 4 = 277V | 50 = 50,000 lm | 77 = NEMA 7x7 | | | | | T1 = Trunnion with external 3ft #14/3 power cable | | NOM = NOM3 ¹¹ |
| | | 5 = 480V | 55 = 55,000 lm ^{2,3} | | | | | | V1 = Knuckle Wall Mount ⁶ | | P06 = Prewired with 6ft #14/3 cable |
| | | D = 347V | 60 = 60,000 lm ^{2,3} | | | | | | | | R = 10kV/5kA Enhanced Surge Protection Device (SPD) |
| | | E = 277-480V ¹ | | | | | | | | | T = 20kV/10kA Enhanced Surge Protection Device (SPD) |
| | | | | | | | | | | | U = DALI Dimming ⁹ |
| | | | | | | | | | | | V0 = 3-Position Terminal Block |
| | | | | | | | | | | | V1 = FAM module |
| | | | | | | | | | | | Y = Coastal Finish ¹⁰ |

NOTES

- ¹ Fusing requires discrete voltage
- ² Not Available in 3x3 distribution
- ³ Not Available in 6x5 distribution
- ⁴ Restricted aiming angle of 0-45°
- ⁵ Can only be ordered with "A" or "P" Dimming Options
- ⁶ Supplied with leads
- ⁷ Not available in 347V, 480V OR 277-480V
- ⁸ Only available in K1 or S1 mount
- ⁹ Compatible with LightGrid System
- ¹⁰ Recommended for installations within 750 feet from coast. Lead time varies, check with factory
- ¹¹ Contact Manufacturer

EFH Series

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| LUMEN OUTPUT | DIST CODE | CLASSIFICATION [HXV] | TYPICAL INITIAL LUMENS | | | | SYSTEM WATTAGE |
|--------------|-----------|-------------------------|------------------------|-------|-------|-------|-------------------|
| | | | 2700K | 3000K | 4000K | 5000K | |
| 30 | 77 | 7x7 | 27000 | 29100 | 30000 | 30000 | 183 |
| 35 | | | 31500 | 33900 | 35000 | 35000 | 213 |
| 40 | | | 36000 | 38800 | 40000 | 40000 | 248 |
| 45 | | | 40500 | 43600 | 45000 | 45000 | 285 |
| 50 | | | 45000 | 48500 | 50000 | 50000 | 323 |
| 55 | | | 49500 | 53300 | 53500 | 53500 | 356 |
| 60 | | | 53100 | 57200 | 59000 | 59000 | 366 |
| 30 | 76 | 7x6 | 27000 | 29100 | 30000 | 30000 | 183 |
| 35 | | | 31500 | 33900 | 35000 | 35000 | 213 |
| 40 | | | 36000 | 38800 | 40000 | 40000 | 248 |
| 45 | | | 40500 | 43600 | 45000 | 45000 | 285 |
| 50 | | | 45000 | 48500 | 50000 | 50000 | 323 |
| 55 | | | 49500 | 53300 | 55000 | 55000 | 356 |
| 60 | | | 53100 | 57200 | 59000 | 59000 | 366 |
| 30 | 66 | 6x6 | 27000 | 29100 | 30000 | 30000 | 183 |
| 35 | | | 31500 | 33900 | 35000 | 35000 | 213 |
| 40 | | | 36000 | 38800 | 40000 | 40000 | 248 |
| 45 | | | 40500 | 43600 | 45000 | 45000 | 285 |
| 50 | | | 45000 | 48500 | 50000 | 50000 | 323 |
| 55 | | | 49500 | 53300 | 55000 | 55000 | 356 |
| 60 | | | 53100 | 57200 | 59000 | 59000 | 366 |
| 30 | 65 | 6x5 | 23400 | 25300 | 26100 | 26100 | 183 |
| 35 | | | 27300 | 29400 | 30400 | 30400 | 213 |
| 40 | | | 31300 | 33700 | 34800 | 34800 | 248 |
| 45 | | | 35100 | 37900 | 39100 | 39100 | 285 |
| 50 | | | 39100 | 42100 | 43500 | 43500 | 323 |
| 60 | | | 53100 | 57200 | 59000 | 59000 | 366 |
| 30 | 33 | 3x3 | 26500 | 27300 | 28500 | 28500 | 193 |
| 35 | | | 32500 | 33600 | 35000 | 35000 | 246 |
| 40 | | | 37200 | 38400 | 40000 | 40000 | 285 |
| 45 | | | 41800 | 43200 | 45000 | 45000 | 325 |
| 50 | | | 46500 | 48000 | 50000 | 50000 | 365 |

For additional information on Shielded and Non-Shielded EFH IES files, please refer to LED.com

EFH1 Series

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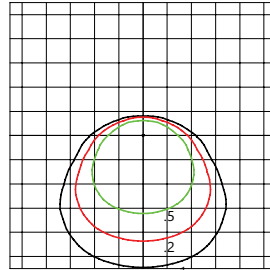
Project Name _____

Date _____ Type _____

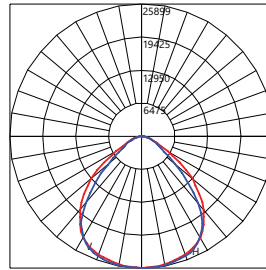
Catalog Number _____

EFH1
NEMA 7x7

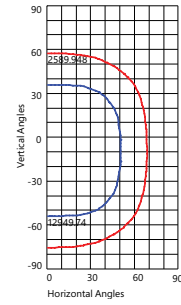
59,000 Lumens
4000K
EFH102_6077740_.....IES



• Mounting Height at 35'
• 45° Tilt Initial Footcandle at Grade

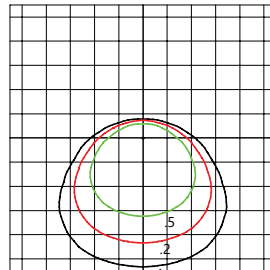


— Vertical Axial Candela Distribution
— Horizontal Axial Candela Distribution

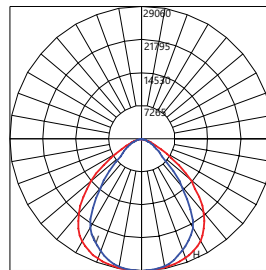


EFH1
NEMA 7x6

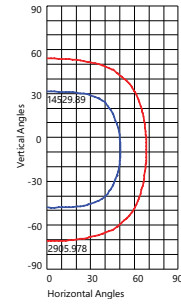
59,000 Lumens
4000K
EFH102_6076740_.....IES



• Mounting Height at 35'
• 45° Tilt Initial Footcandle at Grade

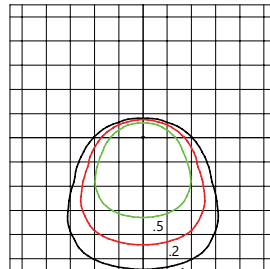


— Vertical Axial Candela Distribution
— Horizontal Axial Candela Distribution

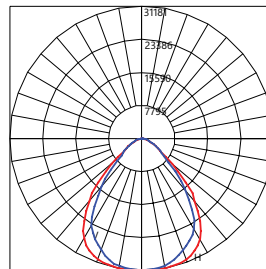


EFH1
NEMA 6x6

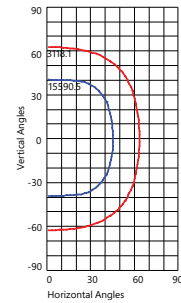
59,000 Lumens
4000K
EFH102_6066740_.....IES



• Mounting Height at 35'
• 45° Tilt Initial Footcandle at Grade

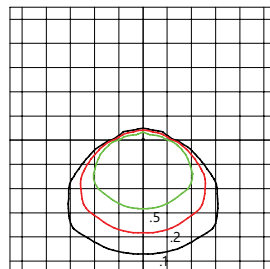


— Vertical Axial Candela Distribution
— Horizontal Axial Candela Distribution

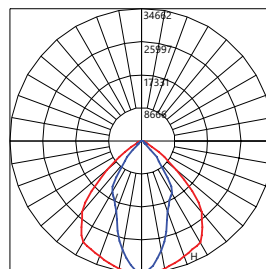


EFH1
NEMA 6x5

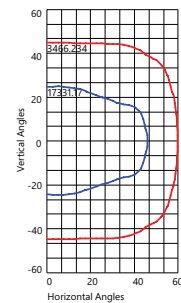
43,500 Lumens
4000K
EFH102_5065740_.....IES



• Mounting Height at 35'
• 45° Tilt Initial Footcandle at Grade

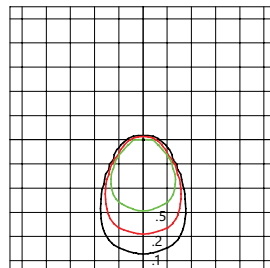


— Vertical Axial Candela Distribution
— Horizontal Axial Candela Distribution

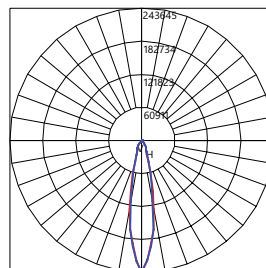


EFH1
NEMA 3x3

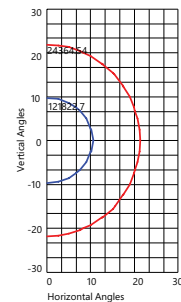
50,000 Lumens
4000K
EFH102_5033740_.....IES



• Mounting Height at 35'
• 45° Tilt Initial Footcandle at Grade



— Vertical Axial Candela Distribution
— Horizontal Axial Candela Distribution



EFH1 Series

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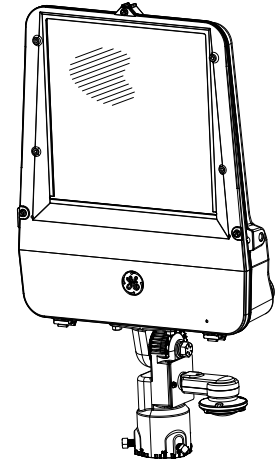
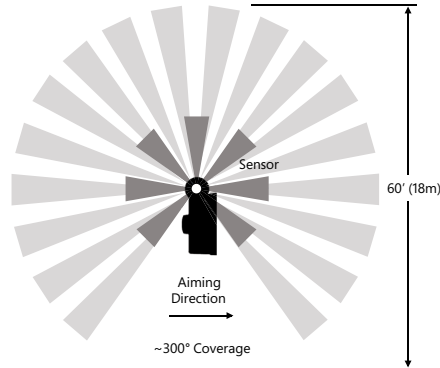
Project Name _____

Date _____ Type _____

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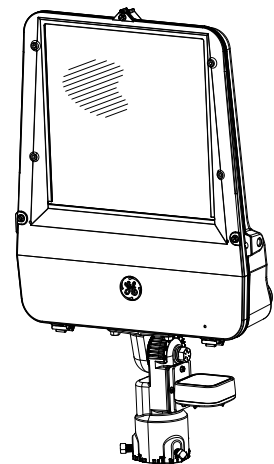
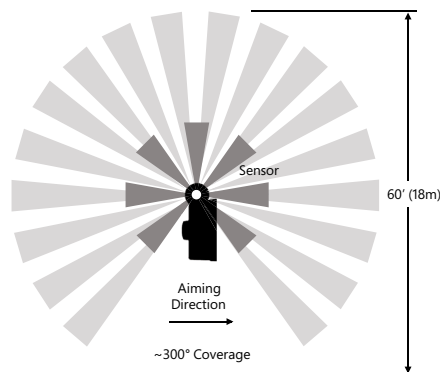
H4 Motion Sensing Option

| | |
|-------------------------------------|-----------------------------------------------------------|
| Recommended Mounting Height: | 15-30' (4.6-9.1m) |
| Coverage Radius: | 15-30' (4.6-6.1 m) |
| Lateral Coverage: | 300 ° |
| Power: | Adds < 1W to fixture power rating |
| Default Settings: | |
| Output: | Occupied - 100% Unoccupied - 10% |
| PE Sensor: | None |
| Ramp/Fade: | Disabled |
| Time (Off) Delay: | 5 min. |
| Field: | Programmable using FSIR-100 hand held programmer (197634) |



H2 - Daintree Enabled Motion Sensing Option

| | |
|-----------------------------------------|-------------------------------------|
| Recommended Mounting Height: | 15-30' (4.6-9.1m) |
| Coverage Radius: | 15-30' (4.6-6.1 m) |
| Lateral Coverage: | 300 ° |
| Power: | Adds < 1W to fixture power rating |
| Default Settings: | |
| Output: | Occupied - 100% Unoccupied - 10% |
| PE Sensor: | None |
| Ramp/Fade: | Disabled |
| Time (Off) Delay: | 10 min. |
| Requires Wireless Area Controller (WAC) | |



EFH1 Series

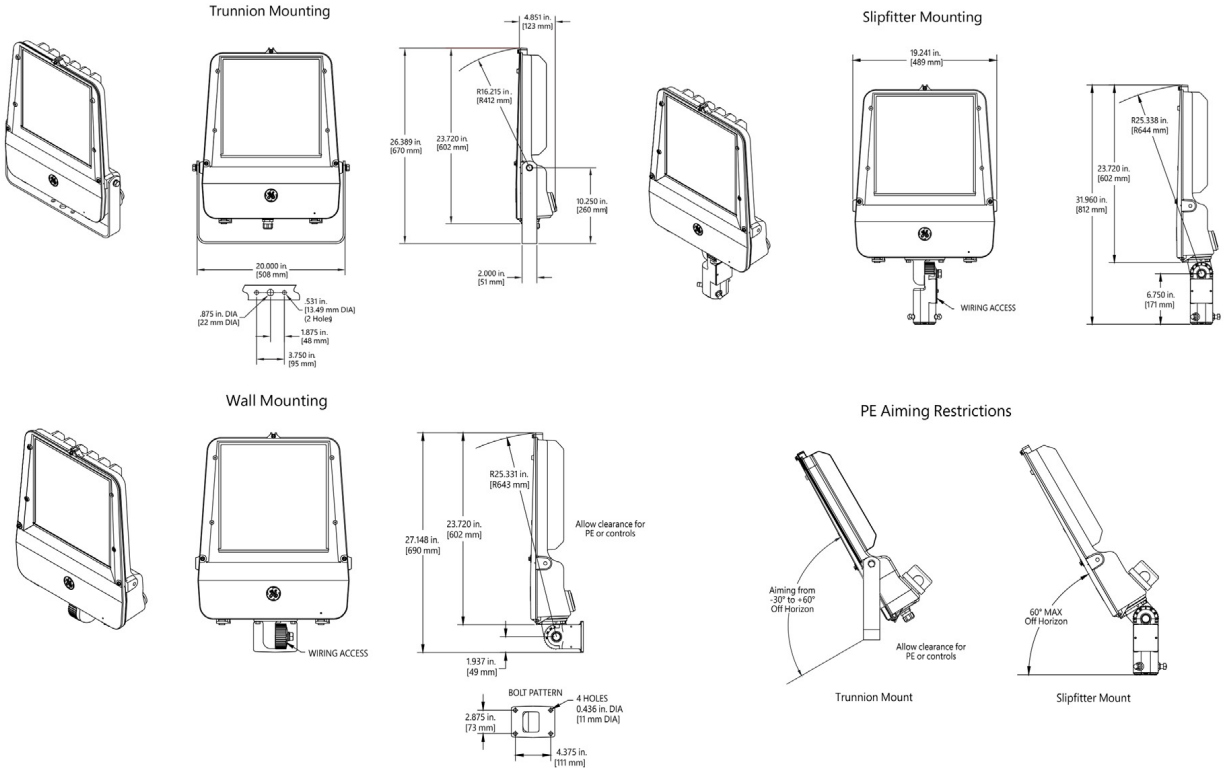
High Output LED Flood Light
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Mounting

Effective Projected Area

Option K

- K1=Knuckle Slipfitter for 2.3 in. OD Tenon. Lead wires exiting tenon.
- K2=Knuckle Slipfitter for 2.3 in. OD Tenon, ext. 3ft #14/3 cord.

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.-3.0 in. OD Tenon, ext. 3ft #14/3 cord.

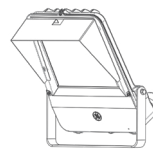
Option V – V1=Knuckle Wall Mount. Lead wires exiting tenon.

Option T – T1=Trunnion, with external 3ft #14/3 cord.

- 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)

Shields

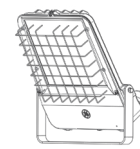
| SAP Number | Part Number | Description | Color |
|------------|--------------|--------------------|-------------|
| 93033494 | TSVBLCK-EFH | Top and Side Visor | Black |
| 93033655 | TSVDKBZ-EFH | Top and Side Visor | Dark Bronze |
| 93033493 | TSVGRAY-EFH | Top and Side Visor | Gray |
| 93033656 | TSVWHITE-EFH | Top and Side Visor | White |
| 93034260 | VAN-EFH | Vandal Shield | |
| 93034259 | WG-EFH | Wire Guard | |
| 93034837 | BDABLCK-EFH | Barn Doors | Black |
| 93034838 | BDADKBZ-EFH | Barn Doors | Dark Bronze |
| 93034836 | BDAGRAY-EFH | Barn Doors | Gray |
| 93034839 | BDAWHITE-EFH | Barn Doors | White |



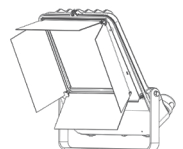
TSV
Top & Side Visor



VAN
Vandal Shield



WG
Wire Guard



BDA
Barn Doors

Accessories

| SAP Number | Part Number | Description |
|------------|---------------|---------------------------------------------------|
| 93123552 | WANSI - 277 | ANSI C136.41 Dimming PE Daintree Enable, 105-305V |
| 93123553 | WANSI - 480 | ANSI C136.41 Dimming PE Daintree Enable, 312-530V |
| 93029237 | PED-MV-LED-7 | ANSI C136.41 Dimming PE, 120-277V |
| 93029238 | PED-347-LED-7 | ANSI C136.41 Dimming PE, 347V |
| 93029239 | PED-480-LED-7 | ANSI C136.41 Dimming PE, 480V |
| 28299 | PEC0TL | Standard 120-277V |
| 28294 | PEC5TL | Standard 480V |
| 80436 | PECCTL | Standard 347V |
| 93147530 | PECHTL | Long Life Standard PE, 347-480V |
| 73251 | SCCL-PECTL | Shorting Cap |