



GE Evolve™

LED Flood & Spot Lighting

EFM1



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GE Evolve™

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The **GE Evolve™ LED Medium Output Flood Light** is our mid-lumen solution to efficiently illuminate building façade, flag poles, billboard signage and many more traditional flood applications. Designed to replace up to 250W HPS and 250-400W Metal Halide flood lights, the EFM1 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.



Features:

- 70 CRI at 3000K, 4000K and 5000K
- Up to L89@100K hrs per IES TM-21 (see LM chart on page 3)
- Distributions: 6x5, 6x6, 7x6, 7x7, Type III, 20° Spot
- 120-277 VAC and 347-480 VAC available
- DALI compatible
- Mounting options: Trunnion, Knuckle Slipfitter, & Knuckle Wall Mount
- UL/cUL listed, suitable for wet locations
- Complies with the material restrictions of RoHS

Applications:

- Building façade, flag poles, utility and industrial spaces, billboard signage, roadways, general site lighting, and many more traditional flood applications.

NOTE: The Type III distribution is ideal for building facade and billboard signage.



Compatible with **LightGrid™** Outdoor Wireless Control System

Also available in 20° Spot optical distribution as pictured here →



To learn more about **GE Evolve LED Flood Lighting**, go to: www.currentbyge.com

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EFM1



Project name _____

Date _____

Type _____

Typical Specifications:



LED & Optical

- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency.
- Impact resistant tempered flat glass protects the optics and minimizes dirt accumulation.
- **Efficacy:** Rated LPW 104-167 (See Table)
- LM-79 tests and reports in accordance with IESNA standards
- 70CRI at 3000K, 4000K, 5000K
- **Distributions:** 6x5, 6x6, 7x6, 7x7, Type III, 20° Spot

Electrical

- 120-277 VAC and 347-480 VAC available.
- System power factor is >90% and THD <20%.
- ANSI C136.41 7-pin dimming receptacle, standard.
- Photo electric sensors (PE) available for all voltages and ordered separately.
- Light Grid compatible
- **Dimming:**
 - 0-10V continuous dimming
 - DALI digital dimming (120-277V)
- Surge Protection per ANSI C136.2-2015.
 - 6kV/3kA Standard
 - 10kV/5kA Optional
 - 20kV/10kA Optional (contact manufacturer for availability)
- Daintree compatible Motion Sensor (K1, S1 Mount Option)

Ratings

-   UL cUL listed, suitable for wet locations.
- IP66 optical enclosure per ANSI C136.25-2013
- Temperature Rated -40°C to +50°C
- Complies with the material restrictions of RoHS



DLC Premium qualified models available. Please refer to <http://www.designlights.org/QPL> for complete information.

Note: Optical code EE and FF are not DLC listed.

Construction & Finish

- **Housing:**
 - Die cast aluminum housing with slim design.
 - Integral heat sink and light engine, ensuring maximum heat transfer and prolonged LED life.
 - 3G vibration level per ANSI C136.31-2010.
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
 - Standard Colors: Dark Bronze, Black, White & Gray
 - RAL & custom colors available
- **Weight:** 25 lbs. (11.34kg)

Lumen Maintenance EFM101

- Projected Lxx per IES TM-21 at 25°C for reference:

OPTICAL CODES	DISTRIBUTION	LXX(10K)@HOURS		
		25,000 HR	50,000 HR	100,000 HR
AA, BB, CC	T3 & S2	L93	L87	L75
AA, BB, CC, DD	65, 66, 76, & 77	L96	L93	L89
EE, FF	65, 66, 76, & 77	L94	L90	L82

Note: Projected Lxx based on LM80 (10,000 hour testing). DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

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 1.9 in - 3.0 in. OD Tenon with wires exiting tenon.
- S2 = Knuckle Slipfitter for 1.9 in - 3.0 in. OD Tenon, with external 3ft #14/3 power cable

Option V

- V1=Knuckle Wall Mount with wires exiting tenon.

Option T

- T1=Trunnion, with external 3ft #14/3 power cable.

Warranty

- **System Warranty:** 5 Year Standard

Accessories

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

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Project name _____
Date _____
Type _____

Ordering Number Logic

E FM1 01

PROD. ID	GEN.	VOLTAGE	OPTIC CODE	DISTRIBUTION*	CRI	CCT	DIMMING	CONTROLS	MOUNTING	FINISH	OPTIONS
E = Evolve FM = Flood Medium 1 = Standard	01 = 1st Gen	0 = 120-277V* 1 = 120V 2 = 208V 3 = 240V 4 = 277V 5 = 480V D = 347V H = 347-480V* *Not available with fusing	AA = 5,000lm BB = 10,000lm CC = 15,000lm DD = 20,000lm EE = 24,000lm FF = 27,000lm	65 = NEMA 6x5 66 = NEMA 6x6 76 = NEMA 7x6 77 = NEMA 7x7 (80° Wide Flood) T3 = Type 3/ Facade/Billboard* S2 = 20° Spot* *Not available with optical code DD, EE or FF	7 = 70 (min)	30 = 3000K 40 = 4000K 50 = 5000K	A = ANSI C1 36.41 7-Pin Receptacle** D = No Receptacle, with external dimming 18/2 3ft cable* N = No PE receptacle & non-dimmable* P = ANSI 7-pin receptacle with external dimming 18/2 3ft cable** +Unrestricted aiming angle ++All units with option A and P have Restricted Aiming Angle. See page 8.	A = No Control D = Shorting Cap* See below ordering logic for dimming PE and standard PE control options. Light Grid also available. Must order separately. *Can only be ordered with dimming option A or P	K1 = Knuckle Slipfitter for 1.9 in-2.3 in. OD Tenon* S1 = Knuckle Slipfitter for 1.9 in-3.0 in. OD Tenon* K2 = Knuckle Slipfitter for 1.9 in-2.3 in OD Tenon with external 3ft #14/3 power cable S2 = Knuckle Slipfitter for 1.9 in-3.0 in. OD Tenon with external 3ft #14/3 power cable V1 = Knuckle Wall Mount* T1 = Trunnion with external 3ft #14/3 power cable. *Supplied with leads	GRAY = Gray BLCK = Black DKBZ = Dark Bronze WHITE = White	F = Fusing< H = Daintree enabled motion sensor# ^ L = Tool-Less Entry P = Prewired with 6 FT #14/3 cable* R = 10kV/5kA Enhanced Surge Protection T = 20kV/10kA Surge Protection> U = DALI Dimming +# V = 3-Position Terminal Block XXX = Special Options * When Dimming option is selected without Dimming PE, a #14-5 cable will be supplied at length above + Compatible with LightGrid 2.0 nodes. # Not available in 347V-480V, optic code EE and FF ^ Only available in mount K1 or S1 < Dimming and Fusing not available with Optical Code AA for distributions "T3" and "S2" > Check manufacturer for availability NOTE: Options F, R, T, and V not available with optical code AA with voltage 347 - 480 and distributions 65, 66, 76, and 77.

OPTICAL CODE	DIST. CODE	OPTICAL DIST./NEMA CLASS	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		TYPICAL SYSTEM WATTAGE		IES FILE NUMBER			
			3000K	4000K/5000K	120-277V	347-480V	3000K	347-480V	120-277V		347-480V	
AA	77	7X7	4900	5000	30	32	EFM101_AA77730_-120-277V/IES	EFM101_AA77730_-347-480V/IES	EFM101_AA77740_-120-277V/IES	EFM101_AA77740_-347-480V/IES	EFM101_AA77750_-120-277V/IES	EFM101_AA77750_-347-480V/IES
BB	77	7X7	9800	10000	64	64	EFM101_BB77730_-IES		EFM101_BB77740_-IES		EFM101_BB77750_-IES	
CC	77	7X7	14700	15000	96	96	EFM101_CC77730_-IES		EFM101_CC77740_-IES		EFM101_CC77750_-IES	
DD	77	7X7	20400	20900	146	146	EFM101_DD77730_-IES		EFM101_DD77740_-IES		EFM101_DD77750_-IES	
EE	77	7X7	23400	24000	175	175	EFM101_EE77730_-IES		EFM101_EE77740_-IES		EFM101_EE77750_-IES	
FF	77	7X7	26200	27000	196	196	EFM101_FF77730_-IES		EFM101_FF77740_-IES		EFM101_FF77750_-IES	
AA	76	7X6	4700	4800	30	32	EFM101_AA76730_-120-277V/IES	EFM101_AA76730_-347-480V/IES	EFM101_AA76740_-120-277V/IES	EFM101_AA76740_-347-480V/IES	EFM101_AA76750_-120-277V/IES	EFM101_AA76750_-347-480V/IES
BB	76	7X6	9500	9700	64	64	EFM101_BB76730_-IES		EFM101_BB76740_-IES		EFM101_BB76750_-IES	
CC	76	7X6	14300	14600	96	96	EFM101_CC76730_-IES		EFM101_CC76740_-IES		EFM101_CC76750_-IES	
DD	76	7X6	19900	20400	146	146	EFM101_DD76730_-IES		EFM101_DD76740_-IES		EFM101_DD76750_-IES	
EE	76	7X6	23300	23900	175	175	EFM101_EE76730_-IES		EFM101_EE76740_-IES		EFM101_EE76750_-IES	
FF	76	7X6	25600	26300	196	196	EFM101_FF76730_-IES		EFM101_FF76740_-IES		EFM101_FF76750_-IES	
AA	66	6X6	4700	4800	30	32	EFM101_AA66730_-120-277V/IES	EFM101_AA66730_-347-480V/IES	EFM101_AA66740_-120-277V/IES	EFM101_AA66740_-347-480V/IES	EFM101_AA66750_-120-277V/IES	EFM101_AA66750_-347-480V/IES
BB	66	6X6	9400	9600	64	64	EFM101_BB66730_-IES		EFM101_BB66740_-IES		EFM101_BB66750_-IES	
CC	66	6X6	14200	14500	96	96	EFM101_CC66730_-IES		EFM101_CC66740_-IES		EFM101_CC66750_-IES	
DD	66	6X6	19700	20200	146	146	EFM101_DD66730_-IES		EFM101_DD66740_-IES		EFM101_DD66750_-IES	
EE	66	6X6	22900	23500	175	175	EFM101_EE66730_-IES		EFM101_EE66740_-IES		EFM101_EE66750_-IES	
FF	66	6X6	25200	25900	196	196	EFM101_FF66730_-IES		EFM101_FF66740_-IES		EFM101_FF66750_-IES	
AA	65	6X5	4400	4500	30	32	EFM101_AA65730_-120-277V/IES	EFM101_AA65730_-347-480V/IES	EFM101_AA65740_-120-277V/IES	EFM101_AA65740_-347-480V/IES	EFM101_AA65750_-120-277V/IES	EFM101_AA65750_-347-480V/IES
BB	65	6X5	8900	9100	64	64	EFM101_BB65730_-IES		EFM101_BB65740_-IES		EFM101_BB65750_-IES	
CC	65	6X5	13400	13700	96	96	EFM101_CC65730_-IES		EFM101_CC65740_-IES		EFM101_CC65750_-IES	
DD	65	6X5	18700	19100	146	146	EFM101_DD65730_-IES		EFM101_DD65740_-IES		EFM101_DD65750_-IES	
EE	65	6X5	21600	22200	175	175	EFM101_EE65730_-IES		EFM101_EE65740_-IES		EFM101_EE65750_-IES	
FF	65	6X5	23800	24400	196	196	EFM101_FF65730_-IES		EFM101_FF65740_-IES		EFM101_FF65750_-IES	
AA*	T3	Type 3	6400	6600	50	50	EFM101_AAT3730_-IES		EFM101_AAT3740_-IES		EFM101_AAT3750_-IES	
BB	T3	Type 3	10200	10500	88	88	EFM101_BBT3730_-IES		EFM101_BBT3740_-IES		EFM101_BBT3750_-IES	
CC	T3	Type 3	14700	15000	141	141	EFM101_CCT3730_-IES		EFM101_CCT3740_-IES		EFM101_CCT3750_-IES	
AA*	S2	20° Spot	7100	7300	50	50	EFM101_AAS2730_-IES		EFM101_AAS2740_-IES		EFM101_AAS2750_-IES	
BB	S2	20° Spot	11300	11600	88	88	EFM101_BBS2730_-IES		EFM101_BBS2740_-IES		EFM101_BBS2750_-IES	
CC	S2	20° Spot	16300	16700	141	141	EFM101_CCS2730_-IES		EFM101_CCS2740_-IES		EFM101_CCS2750_-IES	

*Dimming not available

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Photometrics:

Evolve™ LED Flood Light (EFM1)

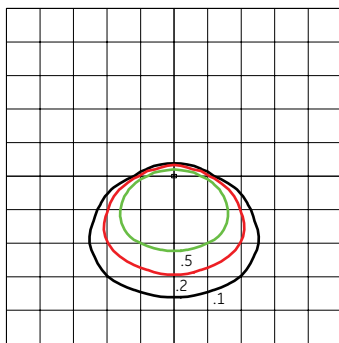
EFM1

NEMA 6x5

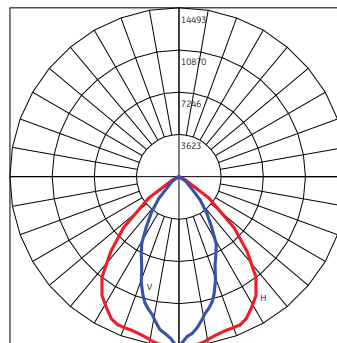
19,100 Lumens

4000K

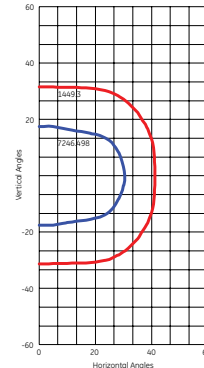
EFM101_DD65740_-



Grid Distance in Units of Mounting Height at 35'
Tilt is 45°. Initial Footcandle Values at Grade



— Vertical angle of Max Cd. at -2.5°
— Horizontal angle of Max Cd. at 2.5°



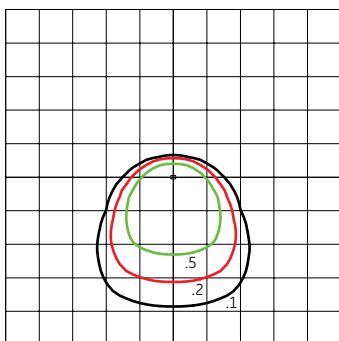
EFM1

NEMA 6x6

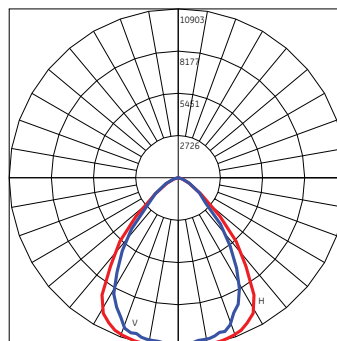
20,200 Lumens

4000K

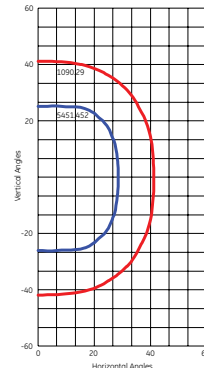
EFM101_DD66740_-



Grid Distance in Units of Mounting Height at 35'
Tilt is 45°. Initial Footcandle Values at Grade



— Vertical angle of Max Cd. at -5°
— Horizontal angle of Max Cd. at 2.5°



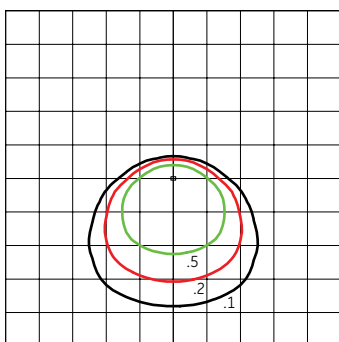
EFM1

NEMA 7x6

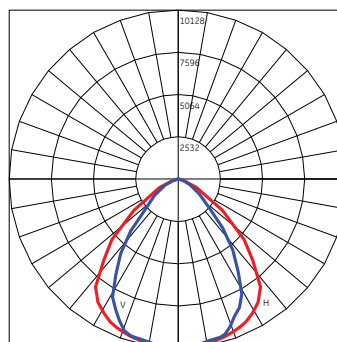
20,400 Lumens

4000K

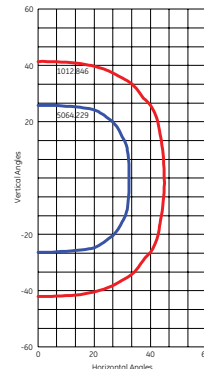
EFM101_DD76740_-



Grid Distance in Units of Mounting Height at 35'
Tilt is 45°. Initial Footcandle Values at Grade



— Vertical angle of Max Cd. at -2.5°
— Horizontal angle of Max Cd. at 2.5°



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Photometrics:

Evolve™ LED Flood Light (EFM1)

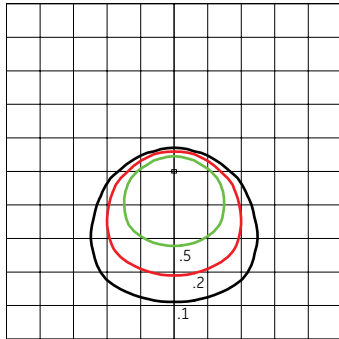
EFM1

NEMA 7x7

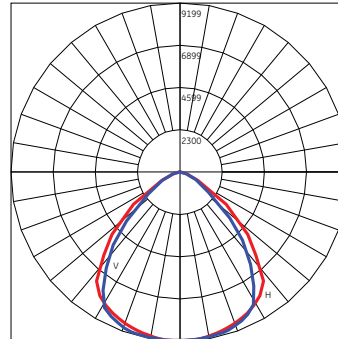
20,900 Lumens

4000K

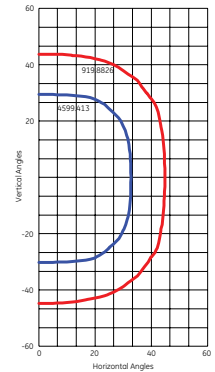
EFM101_DD77740_-



Grid Distance in Units of Mounting Height at 35'
Tilt is 45°. Initial Footcandle Values at Grade



— Vertical angle of Max Cd. at -7.5°
— Horizontal angle of Max Cd. at 5°



EFM1

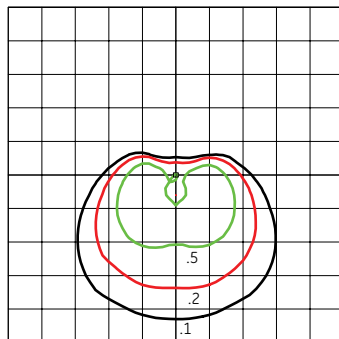
TYPE III

FACADE/BILLBOARD

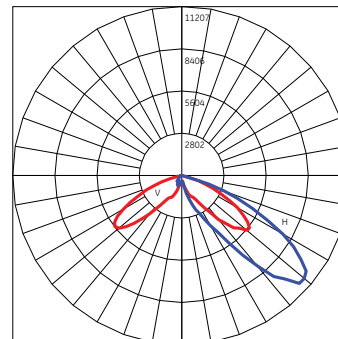
15,000 Lumens

4000K

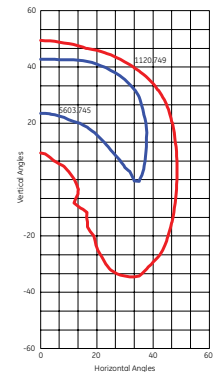
EFM101_CCT3740_-



Grid Distance in Units of Mounting Height at 35'
Tilt is 25°. Initial Footcandle Values at Grade



— Vertical angle of Max Cd. at 47.5°
— Horizontal angle of Max Cd. at 15°



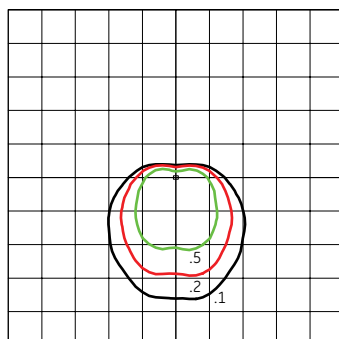
EFM1

20° SPOT

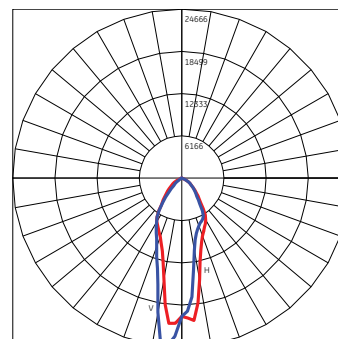
16,700 Lumens

4000K

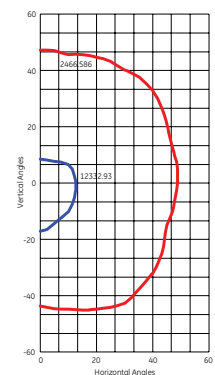
EFM101_CCS2740_-



Grid Distance in Units of Mounting Height at 35'
Tilt is 45°. Initial Footcandle Values at Grade



— Vertical angle of Max Cd. at -5°
— Horizontal angle of Max Cd. at 0°



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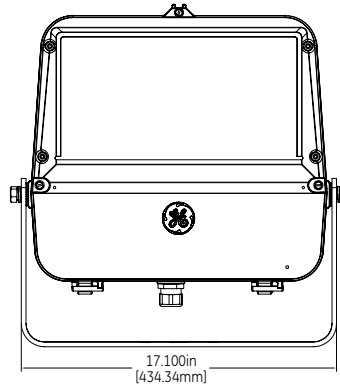
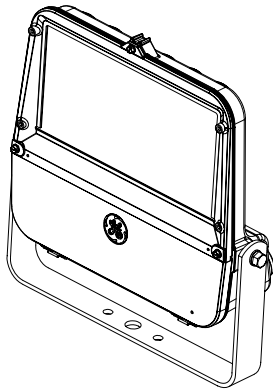
LED Flood & Spot Lighting

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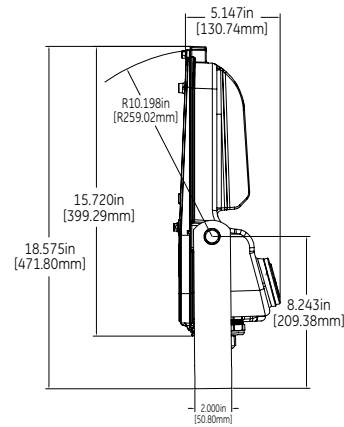
Product Dimensions:

Evolve™ LED Flood Light (EFM1)

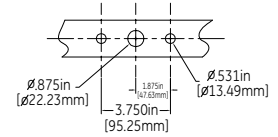
TRUNNION MOUNT



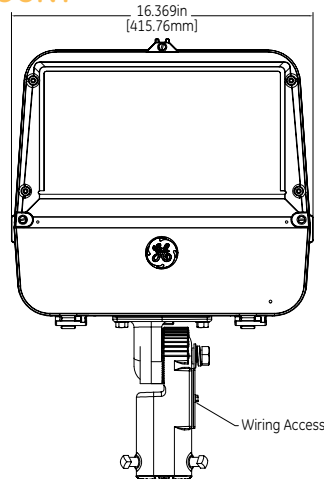
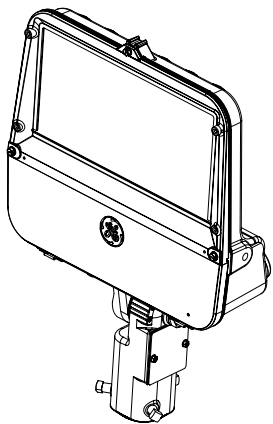
FRONT VIEW



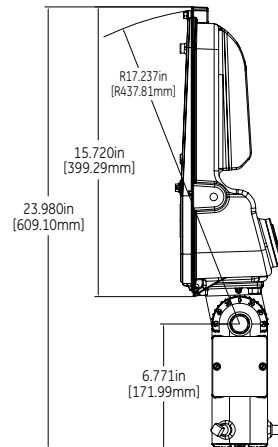
SIDE VIEW



KNUCKLE SLIPFITTER MOUNT

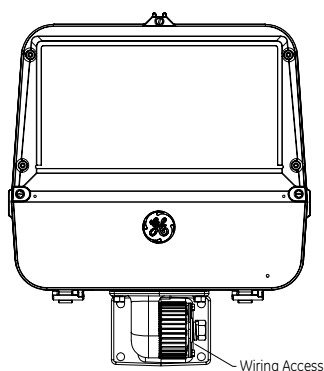
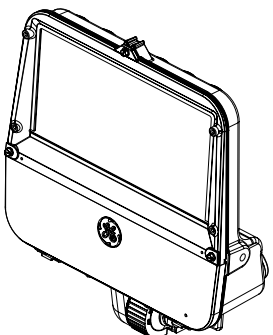


FRONT VIEW

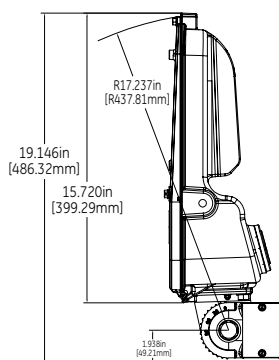


SIDE VIEW

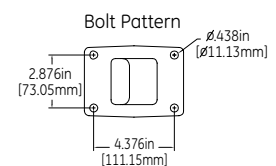
KNUCKLE WALL MOUNT



FRONT VIEW



SIDE VIEW



GE Evolve™

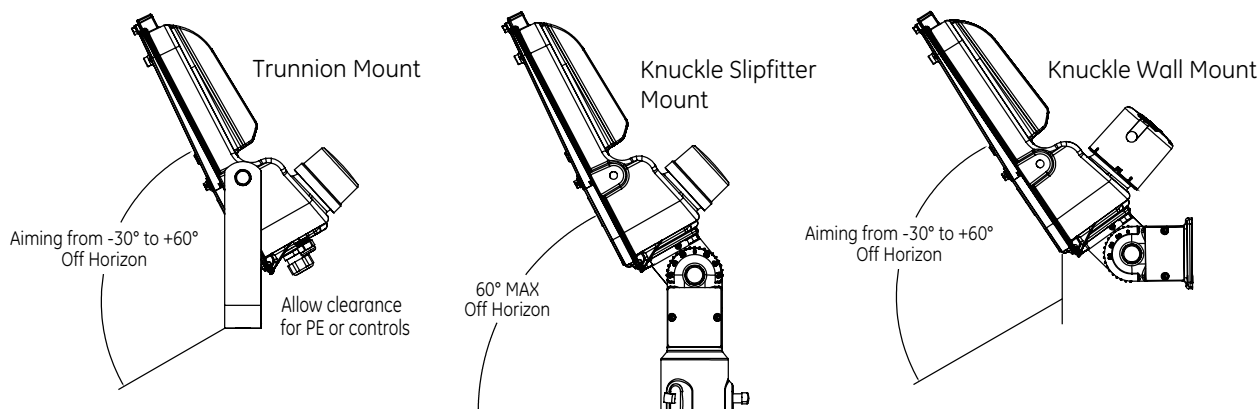
LED Flood & Spot Lighting

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Product Dimensions:

Evolve™ LED Flood Light (EFM1)

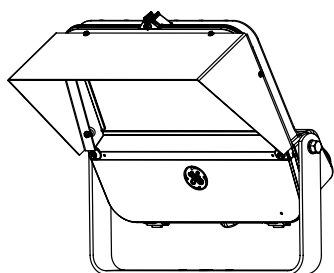
EFM1 - PE Aiming Restrictions



DATA

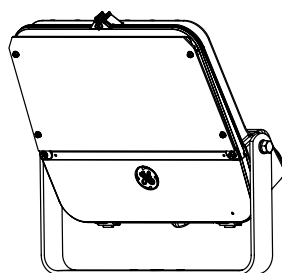
- Approximate Weight: 25 lbs. (11.34 kg)
- Effective Projected Area:
 - 0° aim (vertical glass) 1.96 sq. ft.
 - 45° aim 1.22 sq. ft.
 - Side profile (all aims) 0.73 sq. ft.
 - 90° (downward) aim 0.79 sq. ft.

EFM1 - Accessories



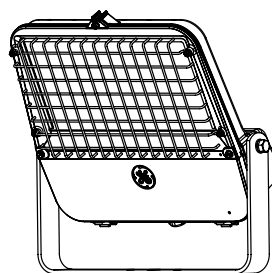
Top And Side Visor

Ordering Logic:
 TSVGRAY-EFM
 TSVBLCK-EFM
 TSVDKBZ-EFM
 TSVWHITE-EFM



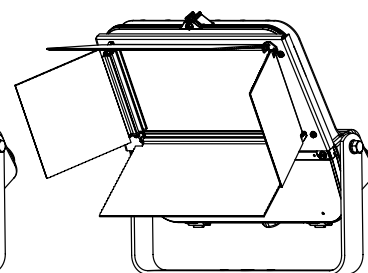
Vandal Shield

Ordering Logic:
 VAN-EFM



Wire Guard

Ordering Logic:
 WG-EFM



Barn Doors

Ordering Logic:
 BDAGRAY-EFM
 BDABLCK-EFM
 BDADKBZ-EFM
 BDAWHITE-EFM

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Accessories

Evolve™ LED Flood Light (EFM1)

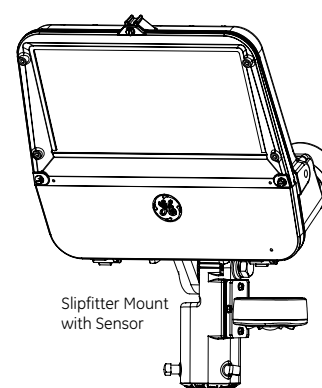
PE Accessories (to be ordered separately)

SAP Number	Part Number	Description
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

SAP Number	Part Number	Description
28299	PECOTL	STANDARD 120-277V
28294	PEC5TL	STANDARD 480V
80436	PECCTL	STANDARD 347V
73251	SCCL-PECTL	Shorting cap

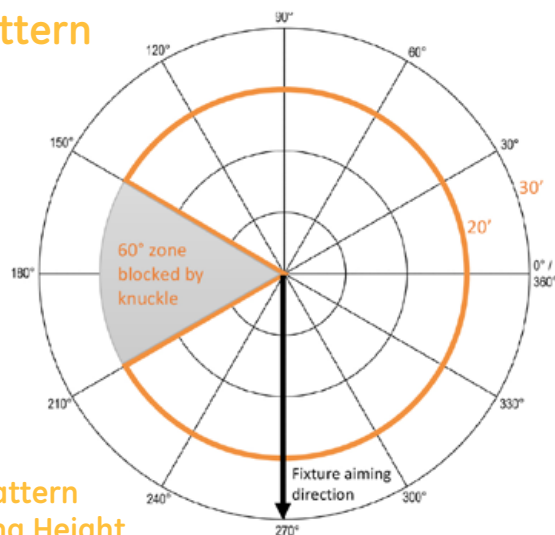
H-Motion Sensing Option

- Intended for applications, between 15-30 ft. mounting height. (4.57-9.14m). For mounting heights exceeding 30 ft., remote mounted sensors are recommended.
- Provides a coverage area radius for walking motion of 15-20 ft. (4.57-6.10m).
- Provides 300° of coverage (~60° is blocked by the knuckle).
- Standard factory settings:
 - 10% output when unoccupied, 100% output occupied.
 - Knuckle mounted PE Sensor.
 - 10 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of 1W expected with sensor use.



Note: Standard options may be reprogrammed in the field. Reprogramming instructions included in product shipment.

Sensor Pattern



Sensing Pattern
30 ft. Mounting Height

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