

Evolve™ LED Flood Light

N Series (EFNB)



current
powered by GE

Product Features

The next generation of the GE Evolve™ LED Flood Light is a bright solution to efficiently illuminate building façade, flag poles, billboard signage and many more traditional flood applications. The Evolve LED Flood Light has a diverse portfolio of optical patterns available to maximize efficiency, highlight effectively, and beautifully illuminate a range of diverse application spaces.

Applications

- General flood applications, including, but not limited to; billboard/bulletin, spot and flag poles, building facade', and general parking.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life, and a reduced Effective Projected Area (EPA).
- Meets 2G vibration level per ANSI C136.31-2010.

LED & Optical Assembly

- Photometric system utilizes GE's advanced reflective LED optical system providing high uniformity, and excellent light distribution.
- Utilizes high brightness LEDs, 70CRI at 3000K, 4000K and 5000K.

Lumen Maintenance

- Projected L90>50,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25°C for reference:



SKU	LXX (10K)@HOURS		
	25,000 HR	50,000 HR	100,000 HR
EFNB	L98	L95	L90

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
50	0.97

Ratings

-  c  listed, suitable for wet locations.
- IP66 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 50°C.
- Compliant with the material restriction requirements of RoHS.

Mounting

Option T

- Trunnion, pre-wired with 3ft #14/3 cable.

Option K

- Knuckle Slipfitter for 1.9" to 2.38" OD Tenon, pre-wired with 24-inch (610mm) leads.

Option S

- Knuckle Slipfitter mounting for 2.3-3" O.D. pipe, pre-wired with 24-inch (610mm) leads.

Option V

- Knuckle Wall Mount, pre-wired with 24-inch (610mm) leads.

Finish

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

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.
- ANSI photo electric sensors (PE) available for all voltages. Light Grid compatible.
- Dimming/Occupancy:
 - Wired 0-10V continuous dimming
 - DALI digital dimming. Contact manufacturer for availability.
 - Standalone motion sensor based dimming using "H" option code.
- Surge Protection per ANSI C136.2-2015.
 - 6kV/3kA "Basic" surge protection, standard.
 - 10kV/5kA "Enhanced" surge protection optional.

Accessories

- PE Accessories - See Page 3



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

Ordering Number Logic

Evolve LED Flood Light N Series (EFNB)



E F N B **7**

PROD. ID	PHOTOMETRIC SERIES	VOLTAGE	OPTICAL CODE	CRI	LED COLOR TEMP	PE FUNCTION	MOUNTING ARM	COLOR	OPTIONS
E = Evolve F = Flood Light N = Housing Series	B = Photometric Series "B"	0 = 120-277* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 H = 347-480V*		7 = 70 (min)	30 = 3000K 40 = 4000K 50 = 5000K	1 = None A = ANSI C136.41 7-pin PE Receptacle # D = ANSI C136.41 7-pin PE Receptacle with Shorting Cap # # Order Dimming/Control PE as a separate item. See accessories section of this datasheet for ordering information.	T = Trunnion, pre-wired with 3ft #14/3 cable, standard * K = Knuckle Slipfitter for 1.9 in to 2.38 in OD Tenon S = Knuckle Slipfitter for 1.9 in to 3 in OD Tenon V = Knuckle Wall Mount * When Dimming option is selected without Dimming PE, a #14-5 cable will be supplied at length above.	BLCK = Black DKBZ = Dark Bronze GRAY = Gray WHITE = White Contact manufacturer for other colors.	D = External Dimming leads provided (0-10 Volt Input) # F = Fusing L = Tool Less Entry R = 10kV Enhanced Surge Protection P = Prewired with 6 FT #14/3 Cable* U = DALI Dimming+^ # Lead wires provided with knuckle mounting options. For trunnion, a 14/5 cable would be provided * 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 compatible at 347-480V or with A-level optical code.

	OPTICAL CODE	TYPE	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE 120-277V, 347-480V	BUG RATINGS		IES FILE NUMBER		
			3000K	4000K & 5000K		3000K B-U-G	4000K & 5000K B-U-G	3000K	4000K	5000K
TYPE IV	A4	Asymmetric Forward	4,000	4,300	44	N/A	N/A	EFNB_A4730__IES	EFNB_A4740__IES	EFNB_A4750__IES
	B4	Asymmetric Forward	5,800	6,200	58	N/A	N/A	EFNB_B4730__IES	EFNB_B4740__IES	EFNB_B4750__IES
	C4	Asymmetric Forward	7,500	8,000	70	N/A	N/A	EFNB_C4730__IES	EFNB_C4740__IES	EFNB_C4750__IES
	D4	Asymmetric Forward	9,200	9,800	89	N/A	N/A	EFNB_D4730__IES	EFNB_D4740__IES	EFNB_D4750__IES
	E4	Asymmetric Forward	10,800	11,500	98	N/A	N/A	EFNB_E4730__IES	EFNB_E4740__IES	EFNB_E4750__IES
	F4	Asymmetric Forward	12,900	13,700	125	N/A	N/A	EFNB_F4730__IES	EFNB_F4740__IES	EFNB_F4750__IES
TYPE III	A3	Asymmetric Wide	4,300	4,600	44	N/A	N/A	EFNB_A3730__IES	EFNB_A3740__IES	EFNB_A3750__IES
	B3	Asymmetric Wide	6,200	6,600	58	N/A	N/A	EFNB_B3730__IES	EFNB_B3740__IES	EFNB_B3750__IES
	C3	Asymmetric Wide	8,100	8,600	70	N/A	N/A	EFNB_C3730__IES	EFNB_C3740__IES	EFNB_C3750__IES
	D3	Asymmetric Wide	9,900	10,500	89	N/A	N/A	EFNB_D3730__IES	EFNB_D3740__IES	EFNB_D3750__IES
	E3	Asymmetric Wide	11,600	12,400	98	N/A	N/A	EFNB_E3730__IES	EFNB_E3740__IES	EFNB_E3750__IES
	F3	Asymmetric Wide	13,900	14,700	125	N/A	N/A	EFNB_F3730__IES	EFNB_F3740__IES	EFNB_F3750__IES
TYPE II	A2	Asymmetric Narrow	4,200	4,500	44	N/A	N/A	EFNB_A2730__IES	EFNB_A2740__IES	EFNB_A2750__IES
	B2	Asymmetric Narrow	6,100	6,500	58	N/A	N/A	EFNB_B2730__IES	EFNB_B2740__IES	EFNB_B2750__IES
	C2	Asymmetric Narrow	7,900	8,400	70	N/A	N/A	EFNB_C2730__IES	EFNB_C2740__IES	EFNB_C2750__IES
	D2	Asymmetric Narrow	9,700	10,300	89	N/A	N/A	EFNB_D2730__IES	EFNB_D2740__IES	EFNB_D2750__IES
	E2	Asymmetric Narrow	11,400	12,100	98	N/A	N/A	EFNB_E2730__IES	EFNB_E2740__IES	EFNB_E2750__IES
	F2	Asymmetric Narrow	13,600	14,400	125	N/A	N/A	EFNB_F2730__IES	EFNB_F2740__IES	EFNB_F2750__IES
SPOT	AS	20° Spot	4,600	5,000	44	N/A	N/A	EFNB_AS730__IES	EFNB_AS740__IES	EFNB_AS750__IES
	BS	20° Spot	6,700	7,200	58	N/A	N/A	EFNB_BS730__IES	EFNB_BS740__IES	EFNB_BS750__IES
	CS	20° Spot	8,700	9,300	70	N/A	N/A	EFNB_CS730__IES	EFNB_CS740__IES	EFNB_CS750__IES
	DS	20° Spot	10,600	11,300	89	N/A	N/A	EFNB_DS730__IES	EFNB_DS740__IES	EFNB_DS750__IES
	ES	20° Spot	12,500	13,300	98	N/A	N/A	EFNB_ES730__IES	EFNB_ES740__IES	EFNB_ES750__IES
	FS	20° Spot	15,000	15,900	125	N/A	N/A	EFNB_FS730__IES	EFNB_FS740__IES	EFNB_FS750__IES
WIDE FLOOD	AW	80° Wide Flood	4,600	5,000	44	N/A	N/A	EFNB_AW730__IES	EFNB_AW740__IES	EFNB_AW750__IES
	BW	80° Wide Flood	6,700	7,200	58	N/A	N/A	EFNB_BW730__IES	EFNB_BW740__IES	EFNB_BW750__IES
	CW	80° Wide Flood	8,700	9,300	70	N/A	N/A	EFNB_CW730__IES	EFNB_CW740__IES	EFNB_CW750__IES
	DW	80° Wide Flood	10,700	11,400	89	N/A	N/A	EFNB_DW730__IES	EFNB_DW740__IES	EFNB_DW750__IES
	EW	80° Wide Flood	12,600	13,400	98	N/A	N/A	EFNB_EW730__IES	EFNB_EW740__IES	EFNB_EW750__IES
	FW	80° Wide Flood	15,000	16,000	125	N/A	N/A	EFNB_FW730__IES	EFNB_FW740__IES	EFNB_FW750__IES
EXTRA WIDE FLOOD	AE	100° Extra Wide Flood	4,500	4,900	44	N/A	N/A	EFNB_AE730__IES	EFNB_AE740__IES	EFNB_AE750__IES
	BE	100° Extra Wide Flood	6,600	7,000	58	N/A	N/A	EFNB_BE730__IES	EFNB_BE740__IES	EFNB_BE750__IES
	CE	100° Extra Wide Flood	8,500	9,100	70	N/A	N/A	EFNB_CE730__IES	EFNB_CE740__IES	EFNB_CE750__IES
	DE	100° Extra Wide Flood	10,500	11,200	89	N/A	N/A	EFNB_DE730__IES	EFNB_DE740__IES	EFNB_DE750__IES
	EE	100° Extra Wide Flood	12,300	13,100	98	N/A	N/A	EFNB_EE730__IES	EFNB_EE740__IES	EFNB_EE750__IES
	FE	100° Extra Wide Flood	14,700	15,600	125	N/A	N/A	EFNB_FE730__IES	EFNB_FE740__IES	EFNB_FE750__IES

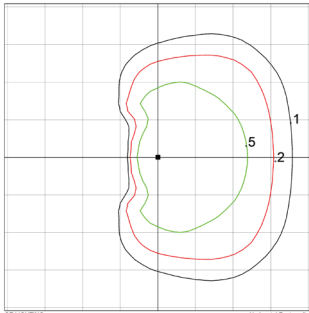
PE Accessories (to be ordered separately)

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

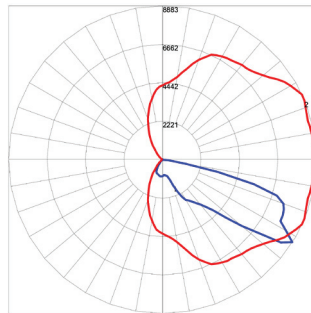
SAP Number	Part Number	Description
28299	PECOTL	STANDARD 120-277V
28294	PECSTL	STANDARD 480V
80436	PECCTL	STANDARD 347V
73251	SCCL-PECTL	Shorting cap

Photometrics

EFNB Type IV - Asymmetric Forward (F4)
 13,700 Lumens, 5000K (EFNB_F4750__.IES)
 Fixture mounted at 0° Horizontal

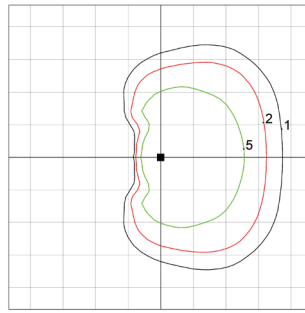


Grid Distance in Units
 of Mounting Height at 30' Initial
 Footcandle Values at Grade

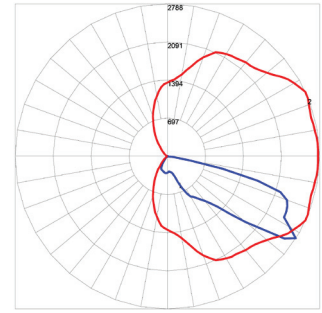


— Vertical plane through horizontal angle
 of maximum candlepower at 45°
 — Vertical plane through horizontal angle of 72.5°

EFNB Type IV - Asymmetric Forward (A4)
 4,300 Lumens, 5000K (EFNB_A4750__.IES)
 Fixture mounted at 0° Horizontal

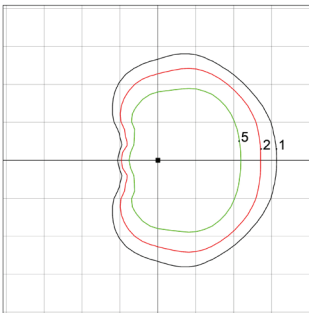


Grid Distance in Units
 of Mounting Height at 15' Initial
 Footcandle Values at Grade

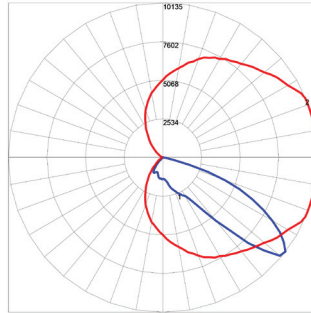


— Vertical plane through horizontal angle
 of maximum candlepower at 45°
 — Vertical plane through horizontal angle of 72.5°

EFNB Type III - Asymmetric Wide (F3)
 14,700 Lumens, 5000K (EFNB_F3750__.IES)
 Fixture mounted at 0° Horizontal

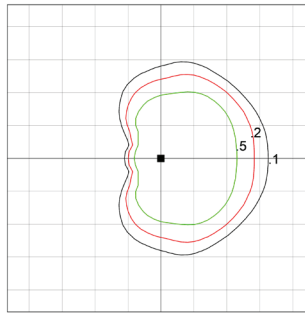


Grid Distance in Units
 of Mounting Height at 30' Initial
 Footcandle Values at Grade

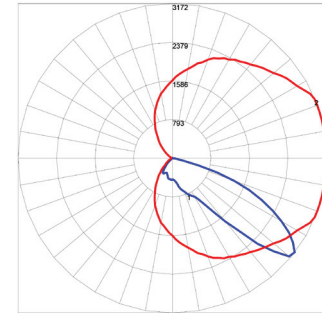


— Vertical plane through horizontal angle
 of maximum candlepower at 20°
 — Vertical plane through horizontal angle of 52.5°

EFNB Type III - Asymmetric Wide (A3)
 4,600 Lumens, 5000K (EFNB_A3750__.IES)
 Fixture mounted at 0° Horizontal

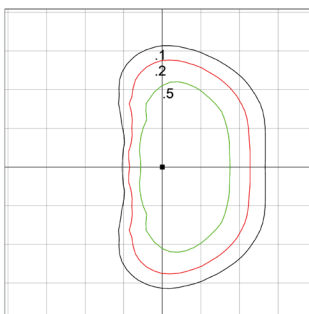


Grid Distance in Units
 of Mounting Height at 15' Initial
 Footcandle Values at Grade

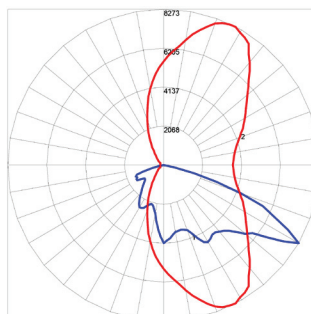


— Vertical plane through horizontal angle
 of maximum candlepower at 20°
 — Vertical plane through horizontal angle of 52.5°

EFNB Type II - Asymmetric Narrow (F2)
 14,400 Lumens, 5000K (EFNB_F2750__.IES)
 Fixture mounted at 0° Horizontal

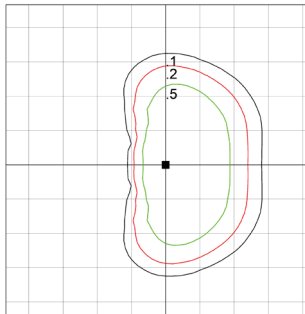


Distance in Units
 of Mounting Height at 30' Initial
 Footcandle Values at Grade

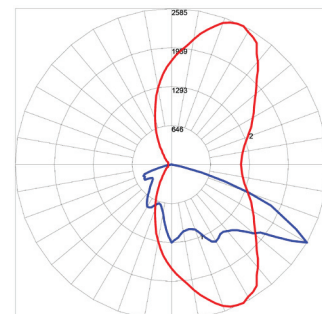


— Vertical plane through horizontal angle
 of maximum candlepower at 65°
 — Vertical plane through horizontal angle of 60°

EFNB Type II - Asymmetric Narrow (A2)
 4,500 Lumens, 5000K (EFNB_A2750__.IES)
 Fixture mounted at 0° Horizontal



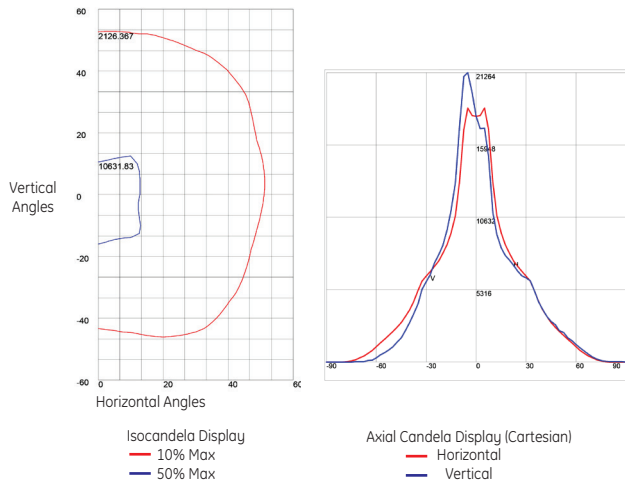
Grid Distance in Units
 of Mounting Height at 15' Initial
 Footcandle Values at Grade



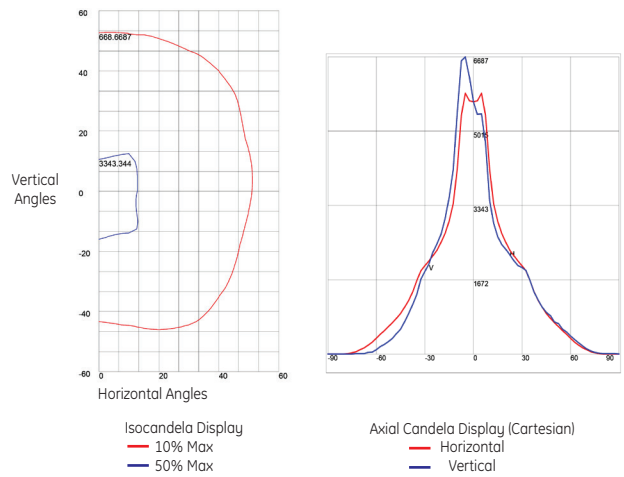
— Vertical plane through horizontal angle
 of maximum candlepower at 65°
 — Vertical plane through horizontal angle of 60°

Photometrics

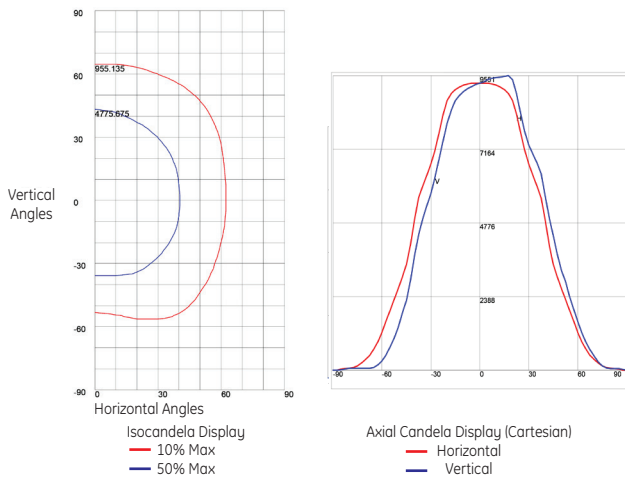
EFNB – 20° Spot (FS)
15,900 Lumens, 5000K (EFNB_FS750__IES)



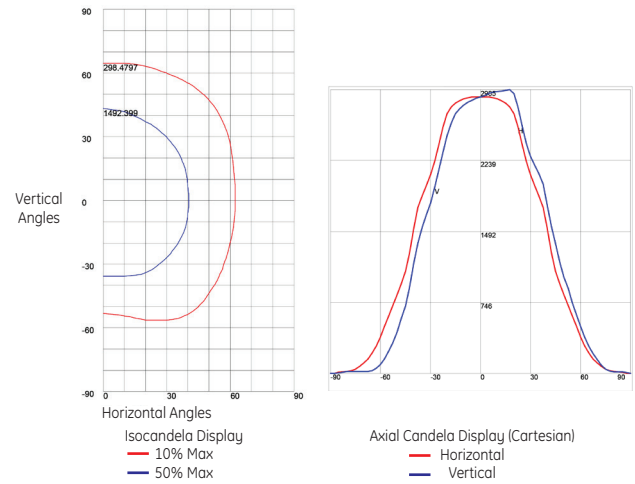
EFNB – 20° Spot (AS)
5,000 Lumens, 5000K (EFNB_AS750__IES)



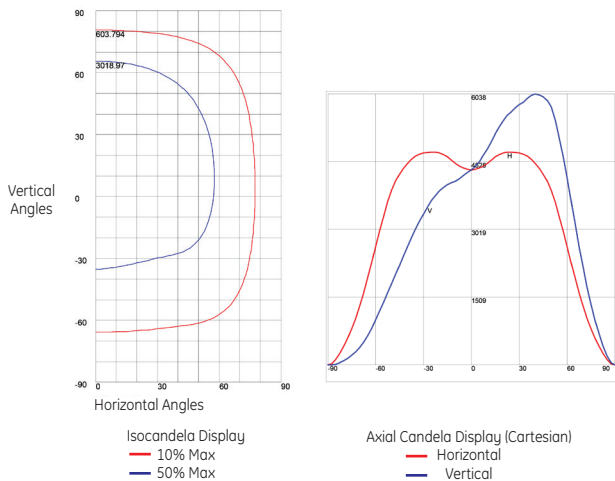
EFNB – 80° Wide Flood (FW)
16,000 Lumens, 5000K (EFNB_FW750__IES)



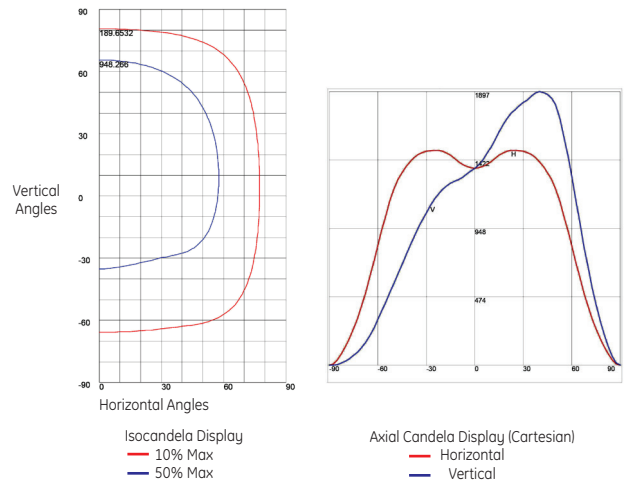
EFNB – 80° Wide Flood (AW)
5,000 Lumens, 5000K (EFNB_AW750__IES)



EFNB – 100° Extra Wide Flood (FE)
15,600 Lumens, 5000K (EFNB_FE750__IES)



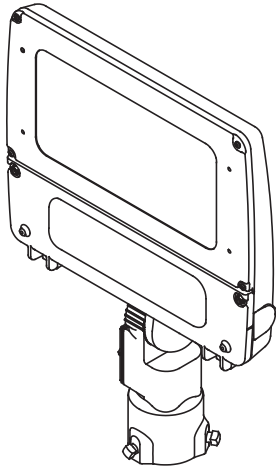
Extra Wide Flood (AE)
4,900 Lumens, 5000K (EFNB_AE750__IES)



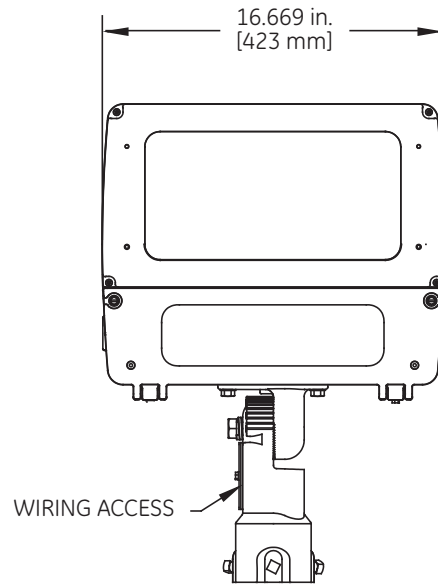
Product Dimensions

Flood Light Slipfitter Mount

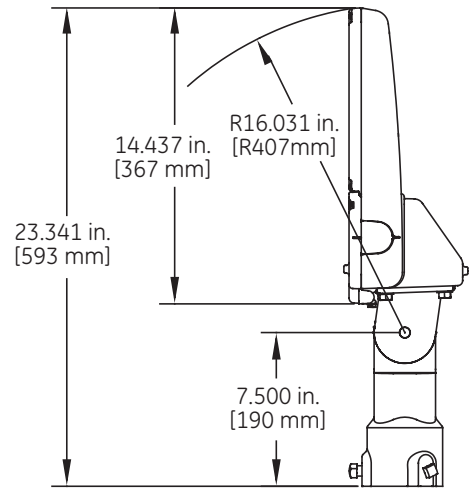
ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW



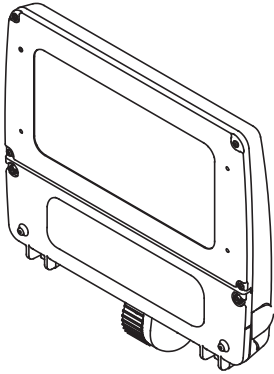
DATA

- Approximate Net Weight: 21 lbs (9.52 kgs)
- Effective Projected Area (EPA) with Knuckle Mount: 0.56 sq ft max (0.05 sq. m)

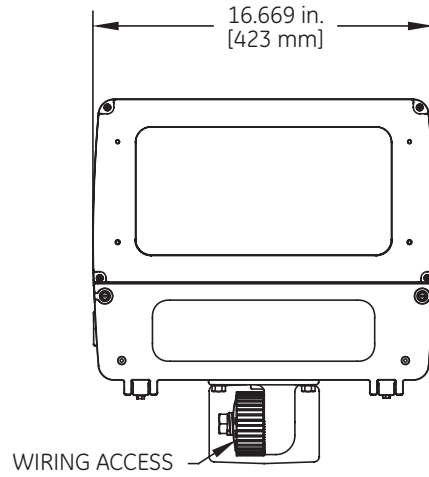
Product Dimensions

Flood Light Wall Mount

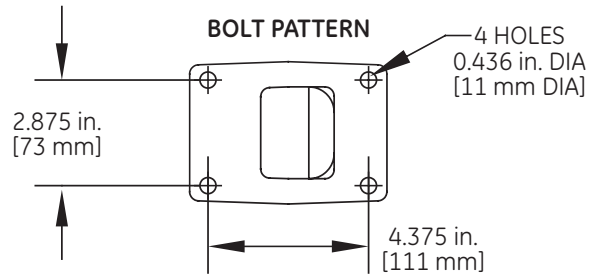
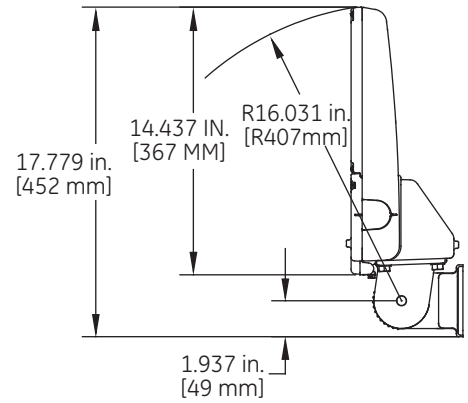
ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW



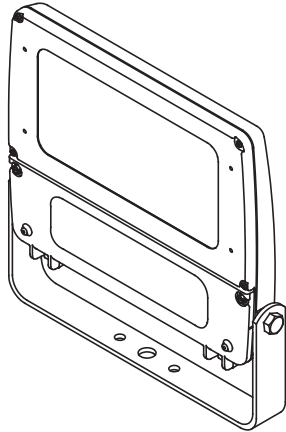
DATA

- Approximate Net Weight: 21 lbs (9.52 kgs)
- Effective Projected Area (EPA) with Knuckle Mount: 0.43 sq ft max (0.04 sq. m)

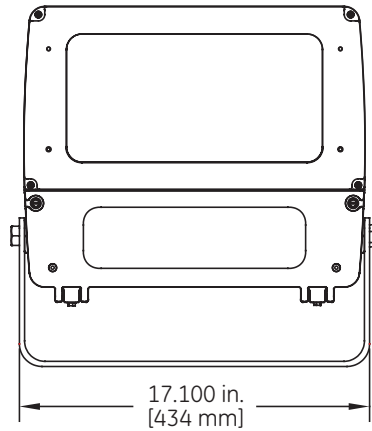
Product Dimensions

Flood Light Trunnion

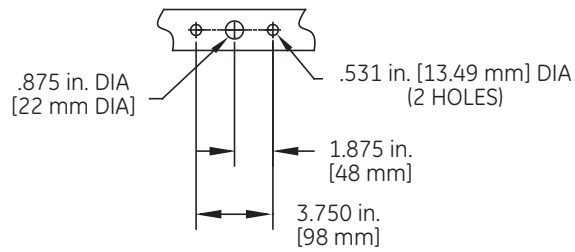
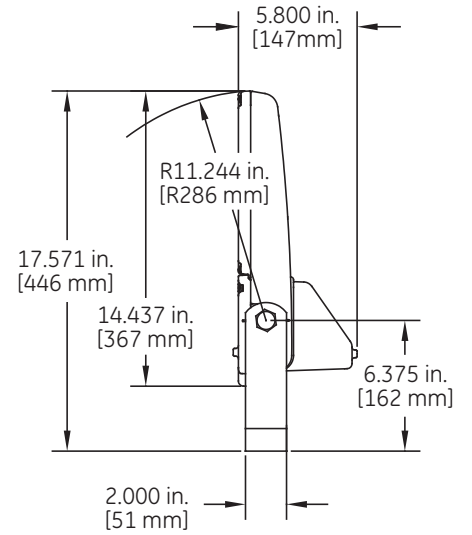
ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW



DATA

- Approximate Net Weight: 22 lbs (9.97 kgs)
- Effective Projected Area (EPA) with Trunnion Mount: 0.39 sq ft max (0.03 sq. m)



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