

The GE Advantage™

Each Evolve™ by GE LED fixture comes complete with GE service and support, every step of the way.

1 Discovery & Design Discovery & Design You receive a comprehensive, custom lighting solution from a team who truly listens to understand your specific goals. 2 Innovative Systems You can choose from a broad portfolio, including the latest lighting technologies. 3 Seamless Distribution You have easy and immediate GE Advantage™ access through our national network of distributors. **ROI** Optimization Innovative Systems 4 Integration Services You garner coordination services with a network of installers for your existing infrastructure or new construction projects. 5 ROI Optimization You see attractive financial benefits with a plan built to deliver – we even assist

Integration Services

Seamless Distribution

MAKING MORE HISTORY

with utility rebate capture and propose financing options from GE Capital.

The Evolve™ by GE family of products is one of the most awarded in GE history. Honors include the highly coveted Best-in-Class award, in two consecutive years, from the Next Generation Luminaires™ (NGL) Solid-State Lighting Design Competition, the LIGHTFAIR® International innovation award, and the Architectural SSL Product Innovation Award (PIA).



Reimagining the landscape of outdoor lighting.

Outdoor lighting is absolutely crucial to the security of our streets and public places. And today, it has a lot to live up to: new legislation, environmental challenges, requirements in energy reduction – just to name a few.

Nobody has more experience in outdoor lighting than GE. For more than a century, we've been imagining better for our roadways, parking lots, garages, residences and commercial areas. Better energy efficiency. Better aesthetics. Less maintenance. You get it all with Evolve™ by GE.





Building better solutions in Hendersonville.

Get what you want faster with responsive services.

We've all heard it before: You can have it fast, or you can have it right. At GE Lighting, we want our customers to have both. That's why we've integrated the highest standards of quality testing into our engineering process. And it's why we've transformed our Hendersonville, North Carolina, plant into a short-cycle manufacturing center. Now, we can move from order placement to product shipping in as little as 10 days. Combine this with our comprehensive distribution and installation network, and you'll have your custom outdoor solutions up, running and generating savings faster than ever before.

The complete package. One provider.

When you choose GE, you'll enjoy the benefits of working with a single supplier for your full outdoor LED lighting system. In addition to convenience, you can be sure all parts and pieces were designed to work together for the highest performance.











Evolve[™] by GE LED fixtures. Imagination runs in the family.

From roadways to parking lots, residential to retail, commercial properties to public places, you'll find your ideal lighting solution in the Evolve[™] by GE portfolio. Efficiency and reliability come standard in each fixture, and that's just the beginning.





Long life span

Evolve[™] by GE LED fixtures offer a 50,000-hour life rating, equaling more than 11 years of service life based on 12 hours of operation per day.

Minimal maintenance

Longer life span means less time switching out lamps. Couple that with easier installation and more reliable engineering, and your maintenance time is virtually eliminated.

Environmental responsibility

In addition to the built-in efficiency benefits of LEDs, all Evolve by GE LED fixtures are mercury- and lead-free.

Reduced glare

Revolutionary designs produce safer, non-pixelated light with low glare.

Outstanding performance – no matter the weather

Evolve by GE LED fixtures are built to endure extreme weather hazards and conditions. And, unlike other outdoor options, these fixtures perform even better in the cold.

Evolve[™] by GE **LED Roadway Lights**

Combining the science of light and a historical knowledge of roadway fixtures, GE engineers have developed groundbreaking roadway lighting solutions that are changing the way we light our lanes. Advanced optical designs offer hundreds of photometric options to meet your precise lighting requirements, while delivering the built-in benefits of all $Evolve^{TM}$ by GE LED fixtures and more.

Maximized efficient utilization of light (CU)

means less wasted light and more saved energy.

Increased control with stand-alone or wireless control system options.

Simplified installation and maintenance with

easy-access doors for replacements or repairs, and tool-less or single-tool entry for quicker connects.

More consistent light distribution through a revolutionary optic design that focuses light on the road, not in the eyes of drivers.

Optimized thermal management due to a robust heat sink design, resulting in longer life, reduced lumen depreciation and exceptional performance.



Low Wattage Streetlight (ERL)

The ideal LED solution for basic local and collector roadway needs.





Scalable Project Grade Cobrahead (ERS1 & ERS2)

For local to major roadways, combine the aesthetic of traditional roadway fixtures, the technical capabilities of a sophisticated LED system, and the functional demands of extreme weather hazards.



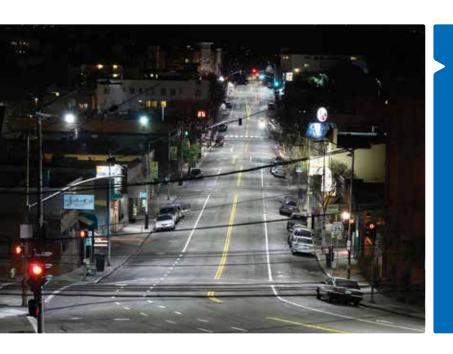
Scalable Specification Grade Cobrahead (ERS1, ERS2, ERS3 & ERS4)

With hundreds of photometric options and lumen ranges from 2,400 to 25,400, expect exceptionally controlled light for any roadway.



Evolve LED Security Light (E2SA)

An energy-efficient, robust fixture designed for outdoor work yards, roadside commercial establishments, suburban developments and rural areas.



CASE IN POINT.

The city of Oakland, California, achieved 40% savings (over \$1.4 million annually) in energy and maintenance costs with Evolve by GE Scalable Cobrahead fixtures.



Evolve[™] by GE LED Decorative Post Tops

For downtown spaces, commercial developments and residential communities, you'll find $Evolve^{TM}$ by GE LED Decorative Post Tops that offer more than their striking good looks. In addition to improved horizontal and vertical uniformity, you can say goodbye to the shadow circles commonly seen beneath other LED post top fixtures. And compared to HID, Evolve by GE LED Decorative Post Tops can significantly reduce system energy.



Salem (EPST)
Traditional
utility carriage

Contemporary Twin Support (EPTC) Distinct, trim styling











Evolve[™] by GE LED Area Lights

Evolve[™] by GE LED Area Lights provide reduced offsite visibility, as well as effective security light levels with symmetric and asymmetric distributions. They can yield a significant reduction in system energy compared with standard HID systems and virtually eliminate ongoing maintenance expenses.



Scalable Area Light (EAS)

Offers greater flexibility, style and scalability for applications like commercial and medical properties, strip malls and large malls, and small, large and big box retailers.



N Series Area Light (EANA)

Delivers superior site uniformity and vertical light distribution with mounting options for both square and round poles. Matching Wall Pack and Flood Light make it a cinch to match the look of parking lots, building façades, walkways and other areas.



Scalable Wall Pack (EWS)

A scalable solution for wall-mounted site, area and general lighting applications. Can reduce energy consumption considerably compared to standard HID systems.



N Series Wall Pack (EWNA)

Designed to efficiently illuminate walkways and general areas; balances need for scalability with workhorse performance.





Evolve[™] by GE LED Canopy Lights



Built to meet technical, functional and weather demands, Evolve[™] Canopy Lights are an ideal solution for canopy installations (such as gas stations), or drive-thrus. The sleek new ECBA fixture offers quick and easy installation – just four screws.



ECB

Evolve by GE LED Parking Garage Lights



EGMS

Enjoy significant energy and maintenance reduction, effective security light levels, increased control and the instant-on capabilities needed to make the most of parking areas. Our unique light-up version eliminates the "cave effect" for a safer, more driver-friendly installation.



EG2R

Evolve by GE LED Flood Lights



Flood Light (EFNA)

Four mounting options fit virtually any flood application, including architectural wall washing and façade lighting, sports court area lighting, flagpoles and bulletin/billboard lighting. A unique photoelectric sensor receptacle can minimize control requirements in dusk-to-dawn applications.

Reimagine your outdoor lighting in three easy steps.



1. Request your FREE Lighting Audit from GE.



2. Receive your customized lighting solution.



3. Let GE coordinate the rest.

Backed by the GE Advantage[™], we will work with you to:



Learn how to save energy and cut spending



Support environmental initiatives



Realize a positive return on investment

To learn more about municipal lighting solutions from GE or schedule your complimentary Lighting Audit, visit gelighting.com/evolve.





Stars belong outside. And that's just where you'll find Evolve™ by GE LED fixtures. From roadways to residential neighborhoods, parking lots to public spaces, Evolve by GE outdoor LED lighting fixtures are redefining the limits of high-quality, low-maintenance, energy-efficient illumination. Welcome to the next evolution of outdoor lighting. Get ready to shine.

For more information or to get started, contact your GE Lighting sales representative or visit **gelighting.com/evolve**

Evolve[™] **LED Flood Light**

N Series (EFNA)





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 4000K and 5000K.

Lumen Maintenance

• System rating is L85 @ 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours...

Ratings

- **(II)** 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.
- DLC Listed

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 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.
- Photo electric sensors (PE) available for all voltages.
- GE dimmable PE socket is available making the unit "adaptive controls ready." Contact manufacturer for details.
- Dimming:
 - Wired 0-10V continuous dimming with "D" option code
- Surge Protection Options: For 120-277VAC and 347-480VAC per IEEE/ANSI C136.2-2014.
 - 6kV/3kA "Basic" surge protection, standard.
 - 10kV/5kA "Enhanced" surge protection available with "R" option code.

Ordering Number Logic Evolve LED Flood Light N Series (EFNA)



EFN

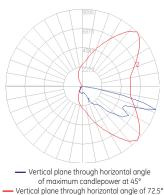
	_	_		_		_	_		
PROD. ID	PHOTOMETRIC SERIES	VOLTAGE	OPTICAL CODE	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	MOUNTING ARM	COLOR	OPTIONS
E = Evolve F = Flood Ligh N = Housing Series	A = Photometric Series "A"	0 = 120-277 1 = 120* 2 = 208* 3 = 240* 4 = 277* 5 = 480* H = 347-480V D = 347* * Specify singly voltage only if fuse optior is selected.		5 = 525mA	40 = 4000K 50 = 5000K	1 = None 2 = PE Rec. 4 = PE Rec. with Shorting cap 5 = PE Rec. with Control ** A = ANSI C136.41 7-pin PE Receptacle †# 7-pin PE Receptacle with Shorting Cap †# ** PE control not available for 347-480V. Must be a discrete voltage (347V or 480V). When ordering PE function socket A or D, a dimming driver must also be ordered under the "OPTIONS" column. # Order Dimmina/Control	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 WHTE = White Contact manufacturer for other colors.	D = Dimming (0-10 Volt Input) † F = Fusing R = 10kV Enhanced Surge Protection P = Prewired with 6 FT #14/3 Cable* XXX = Special Options † Dimming leads will be provided through the back of the arm, unless specified with A or D PE Function. * When Dimming option is selected without Dimming PE, 0 #14-5 cable will be supplied at length above.
						PE as a separate item.			

					eparate item.			
OPTICAL CODE	ТҮРЕ	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		IES FILE NUMBER		
CODE		4000K	5000K	120-277V	347-480V	4000K	5000K	
A4	Asymmetric Forward	3,730	3,750	46	46	EFNA_A4540120-277V.IES	EFNA_A4550120-277V.IES	
B4	Asymmetric Forward	5,510	5,540	65	65	EFNA_B4540120-277V.IES	EFNA_B4550120-277V.IES	
C4	Asymmetric Forward	7,180	7,210	85	85	EFNA_C4540IES	EFNA_C4550IES	
D4	Asymmetric Forward	8,810	8,850	104	104	EFNA_D4540IES	EFNA_D4550IES	
E4	Asymmetric Forward	10,370	10,410	123	123	EFNA_E4540IES	EFNA_E4550IES	
F4	Asymmetric Forward	12,320	12,380	148	148	EFNA_F4540IES	EFNA_F4550IES	
A3	Asymmetric Wide	4,070	4,090	46	46	EFNA_A3540120-277V.IES	EFNA_A3550120-277V.IES	
В3	Asymmetric Wide	6,010	6,040	65	65	EFNA_B3540120-277V.IES	EFNA_B3550120-277V.IES	
C3	Asymmetric Wide	7,830	7,860	85	85	EFNA_C3540IES	EFNA_C3550IES	
D3	Asymmetric Wide	9,620	9,650	104	104	EFNA_D3540IES	EFNA_D3550IES	
E3	Asymmetric Wide	11,320	11,360	123	123	EFNA_E3540IES	EFNA_E3550IES	
F3	Asymmetric Wide	13,450	13,500	148	148	EFNA_F3540IES	EFNA_F3550IES	
A2	Asymmetric Narrow	3,940	3,960	46	46	EFNA_A2540120-277V.IES	EFNA_A2550120-277V.IES	
B2	Asymmetric Narrow	5,820	5,850	65	65	EFNA_B2540120-277V.IES	EFNA_B2550120-277V.IES	
C2	Asymmetric Narrow	7,580	7,620	85	85	EFNA_C2540IES	EFNA_C2550IES	
D2	Asymmetric Narrow	9,310	9,350	104	104	EFNA_D2540IES	EFNA_D2550IES	
E2	Asymmetric Narrow	10,960	11,010	123	123	EFNA_E2540IES	EFNA_E2550IES	
F2	Asymmetric Narrow	13,020	13,080	148	148	EFNA_F2540IES	EFNA_F2550IES	
AS	20° Spot	4,340	4,360	46	46	EFNA_AS540120-277V.IES	EFNA_AS550120-277V.IES	
BS	20° Spot	6,410	6,440	65	65	EFNA_BS540120-277V.IES	EFNA_BS550120-277V.IES	
CS	20° Spot	8,350	8,380	85	85	EFNA_CS540IES	EFNA_CS550IES	
DS	20° Spot	10,250	10,290	104	104	EFNA_DS540IES	EFNA_DS550IES	
ES	20° Spot	12,060	12,100	123	123	EFNA_ES540IES	EFNA_ES550IES	
FS	20° Spot	14,330	14,390	148	148	EFNA_FS540IES	EFNA_FS550IES	
AW	80° Wide Flood	4,360	4,380	46	46	EFNA_AW540120-277V.IES	EFNA_AW550120-277V.IES	
BW	80° Wide Flood	6,440	6,480	65	65	EFNA_BW540120-277V.IES	EFNA_BW550120-277V.IES	
CW	80° Wide Flood	8,390	8,430	85	85	EFNA_CW540IES	EFNA_CW550IES	
DW	80° Wide Flood	10,300	10,350	104	104	EFNA_DW540IES	EFNA_DW550IES	
EW	80° Wide Flood	12,130	12,180	123	123	EFNA_EW540IES	EFNA_EW550IES	
FW	80° Wide Flood	14,400	14,470	148	148	EFNA_FW540IES	EFNA_FW550IES	
AE	100° Extra Wide Flood	4,260	4,290	46	46	EFNA_AE540120-277V.IES	EFNA_AE550120-277V.IES	
BE	100° Extra Wide Flood	6,300	6,330	65	65	EFNA_BE540120-277V.IES	EFNA_BE550120-277V.IES	
CE	100° Extra Wide Flood	8,200	8,240	85	85	EFNA_CE540IES	EFNA_CE550IES	
DE	100° Extra Wide Flood	10,070	10,120	104	104	EFNA_DE540IES	EFNA_DE550IES	
EE	100° Extra Wide Flood	11,860	11,910	123	123	EFNA_EE540IES	EFNA_EE550IES	
FE	100° Extra Wide Flood	14,090	14,150	148	148	EFNA_FE540IES	EFNA_FE550IES	

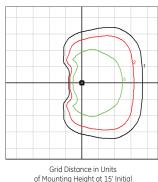
Photometrics

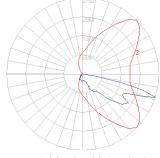
EFNA Type IV - Asymmetric Forward (F4) 12,380 Lumens, 5000K (EFNA_F4550__.IES) Fixture mounted at 0° Horizontal

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



EFNA Type IV - Asymmetric Forward (A4) 3,750 Lumens, 5000K (EFNA A4550 -120-277V.IES) Fixture mounted at 0° Horizontal

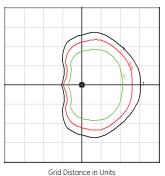




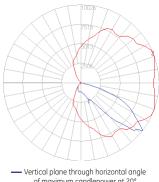
Footcandle Values at Grade

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

EFNA Type III - Asymmetric Wide (F3) 13,500 Lumens, 5000K (EFNA_F3550__.IES) Fixture mounted at 0° Horizontal

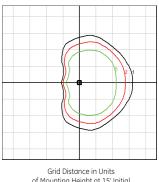


of Mounting Height at 30' Initial Footcandle Values at Grade

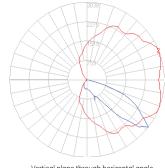


of maximum candlepower at 20° Vertical plane through horizontal angle of 52.5°

EFNA Type III - Asymmetric Wide (A3) 4,090 Lumens, 5000K (EFNA_A3550__-120-277V.IES) Fixture mounted at 0° Horizontal

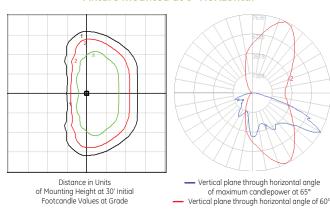


of Mounting Height at 15' Initial Footcandle Values at Grade

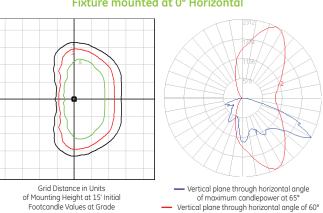


 Vertical plane through horizontal angle of maximum candlepower at 20° Vertical plane through horizontal angle of 52.5

EFNA Type II - Asymmetric Narrow (F2) 13,080 Lumens, 5000K (EFNA F2550 .IES) Fixture mounted at 0° Horizontal



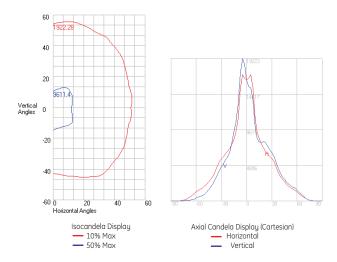
EFNA Type II - Asymmetric Narrow (A2) 3,960 Lumens, 5000K (EFNA_A2550__-120-277V.IES) Fixture mounted at 0° Horizontal



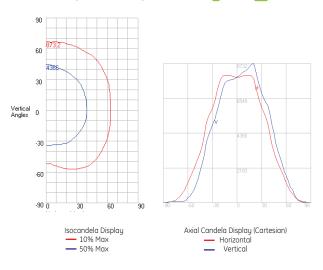
Footcandle Values at Grade

Photometrics

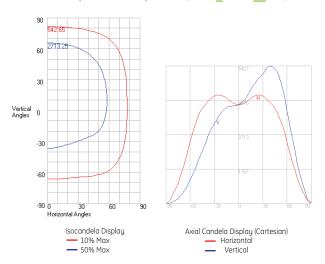
EFNA – 20° Spot (FS) 14,390 Lumens, 5000K (EFNA_FS550__.IES)



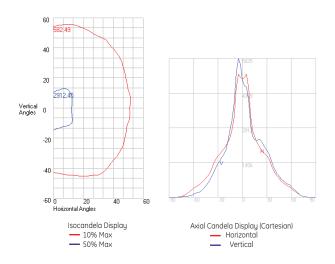
EFNA – 80° Wide Flood (FW) 14,470 Lumens, 5000K (EFNA_FW550__.IES)



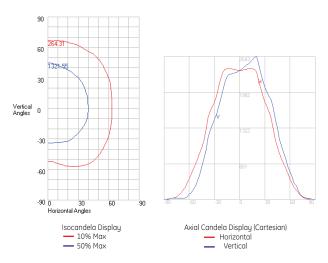
EFNA – 100° Extra Wide Flood (FE) 14,150 Lumens, 5000K (EFNA_FE550__.IES)



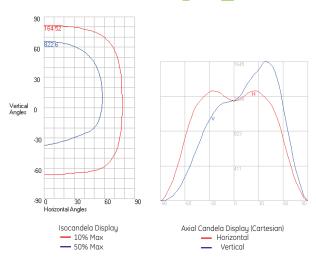
EFNA – 20° Spot (AS) 4,360 Lumens, 5000K (EFNA_AS550__-120-277V.IES)



EFNA - 80° Wide Flood (AW) 4,380 Lumens, 5000K (EFNA_AW550__-120-277V.IES)



Extra Wide Flood (AE)
4,290 Lumens, 5000K (EFNA_AE550__-120-277V.IES)



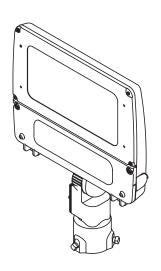
Product Dimensions

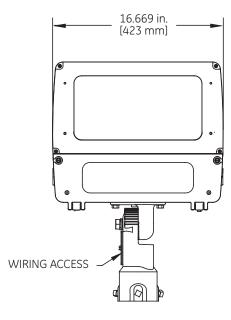
Flood Light Slipfitter Mount

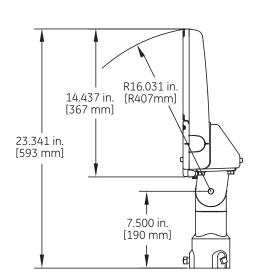
ISOMETRIC VIEW

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)

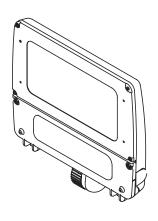
Product Dimensions

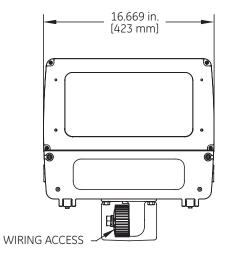
Flood Light Wall Mount

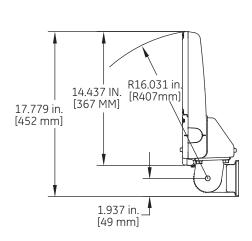
ISOMETRIC VIEW

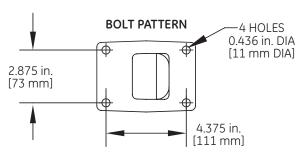
FRONT VIEW

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)

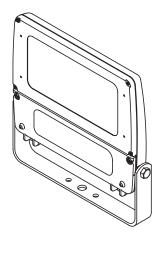
Product Dimensions

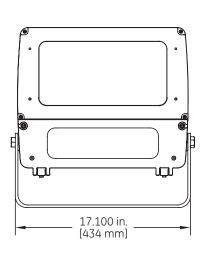
Flood Light Trunnion

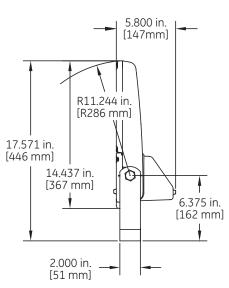
ISOMETRIC VIEW

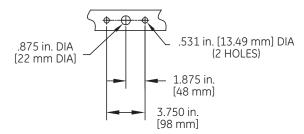
FRONT VIEW

SIDE VIEW









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

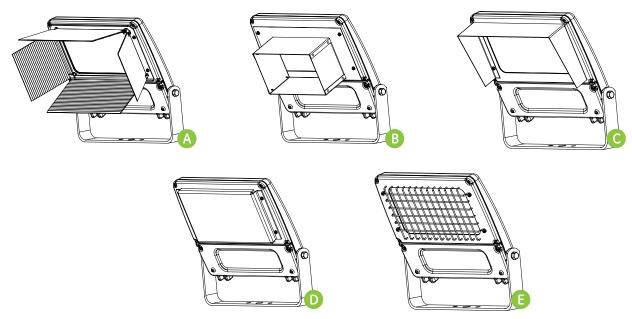


www.gelighting.com

GE and the GE Monogram are trademarks of the General Electric Company. All other trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. GE Lighting and GE Lighting Solutions, LLC are businesses of the General Electric Company. © 2015 GE.

Evolve™ N Series Accessories

(EFN, EAN, & EWN)



Accessory products above are shown with the Evolve EFN Food luminaire.

Product Name:	Ordering Logic:	Description:
A. Barn Door Assembly	BDABLCK-EFN	Easily customize your EFN photometric distributions with the adjustable doors of the barn door assembly. Standard color: Black. Recommended for use with EFN Flood.
B. Snoot	SNBLCK-EFN	Further aid in directing light to specific locations with the EFN designed snoot. Standard color: Black. Recommended for use with EFN flood.
C. Top and Side Visor	TSVBLCK-EFN	Shield light from escaping with this top and side visor. Standard color: Black. Recommended for use with EFN Flood. Also compatible with EAN Area Light & EWN Wall Pack.
D. Lexan Vandal Shield	LVS-EFN	Made from durable lexan material, this shield protects the luminaire's glass from shattering due to impact of debris. Compatible with EFN Flood, EAN Area Light, and EWN Wall Pack.
E. Wire Guard	WG-EFN	Protect the luminaire lens against foreign objects of up to 1" in volume with this 1/8" diameter stainless steel wire guard. Compatible with EFN Flood, EAN Area Light, and EWN Wall Pack.

All accessory product ordered and shipped separate from the luminaire.

Contact Manufacturer for more information.



www.gelighting.com

GE and the GE Monogram are trademarks of the General Electric Company. All other trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. GE Lighting and GE Lighting Solutions, LLC are businesses of the General Electric Company. © 2015 GE.