



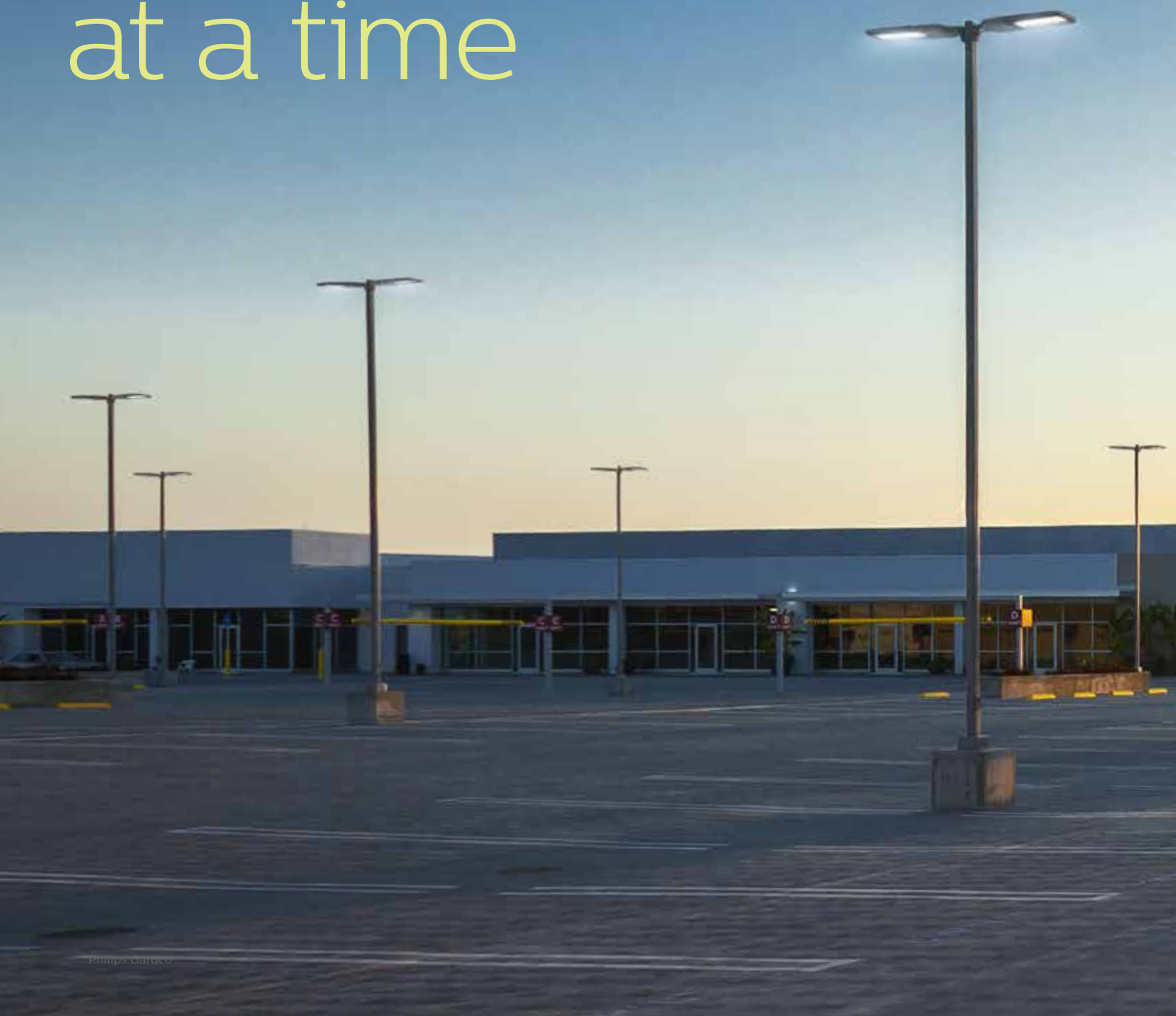
Site & Area

EcoForm

Deliver more than expected

EcoForm LED site and area luminaires are more than sources of illumination, they offer the best of all worlds: saving energy, saving time, and saving money.

Strengthening relationships, one luminaire at a time



EcoForm
Site & Area
At a glance



EcoForm (ECF-L)
LED site and area
Large

6 module with
standard arm mount



EcoForm (ECF-S)
LED site and area
Small

4 module with
standard arm mount

It's not just about meeting technical requirements. It's about looking out for the best interests of your customers, and going the extra mile to uncover new savings and conveniences. Outdoor lighting should support these goals, and the right place to start is with the next generation of Philips Gardco EcoForm LED site and area luminaires.

In any outdoor site and area project, EcoForm luminaires are more than sources of illumination; they offer the best of all worlds: saving energy, saving time, and saving money for significant and enduring value.

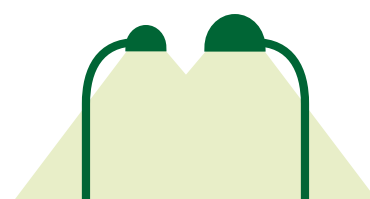
Your opportunity to make a difference

Create an impactful first impression, with the long-lasting, energy-efficient illumination of EcoForm luminaires. In addition to cutting-edge LED technology, multiple luminaire options allow you to build something truly special in your client's outdoor space.





A **heightened sense of security** by incorporating lumen outputs from 6,700 - 42,000

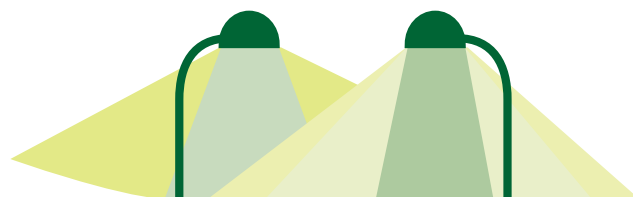


Maintain consistent aesthetics throughout the site **with two housing sizes** and multiple mounting types



Deliver **optimum light levels** without over or under lighting with true **400W and 1000W HID equivalency***

* reference data sited on pages 6 and 7 of this brochure



Precisely direct light with six optical distribution types: Type 2, Type 3, Type 4, Type 5, Type 5W, Auto Front Row



Outdoor lighting control options

For enhanced long-term energy savings and personalized functionality, see our full range of outdoor lighting control options, including our newest SiteWise area lighting management system that combines enhanced energy savings and convenience in a way that no one else can match.
(see page 9 for more information)

Lighting applications expertise

The added value inherent to EcoForm luminaires continues through Philips Lighting Applications Engineers, who will offer expert advice, helpful tips and useful lighting education to ensure that your project is as efficient and successful as possible.

The confident choice

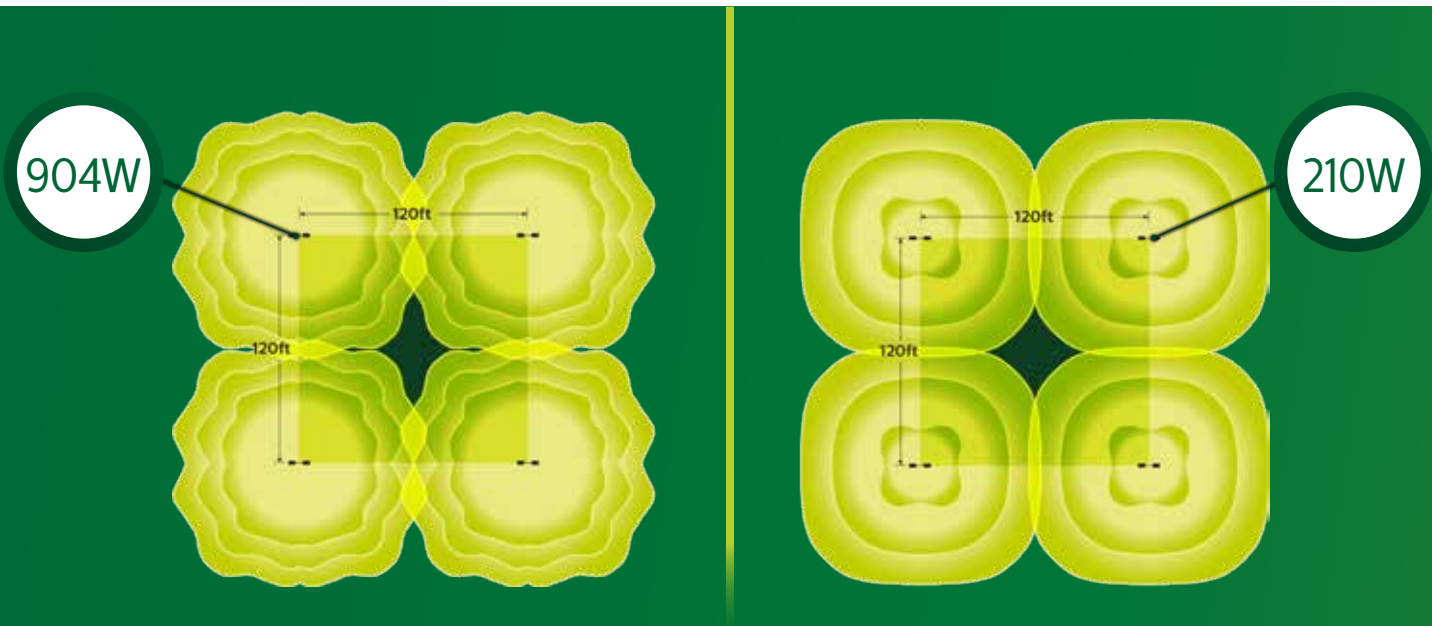
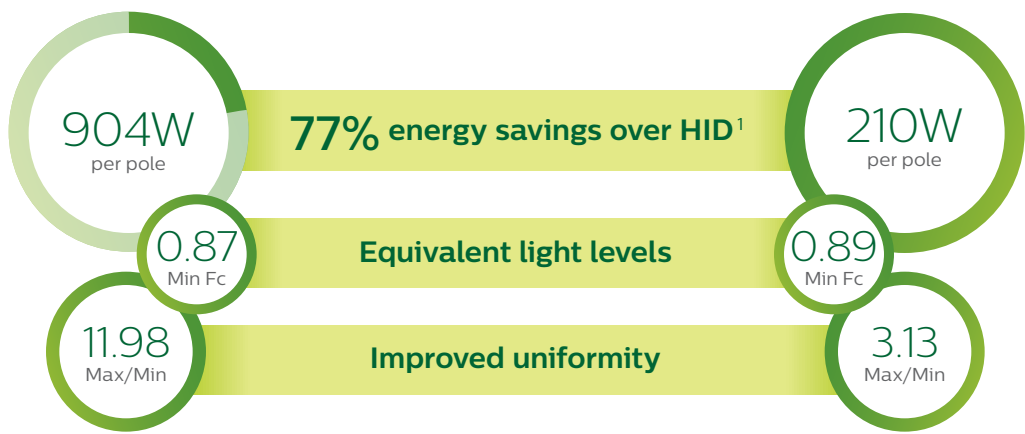
When determining HID equivalency, it's not as straightforward as a lumen-to-lumen comparison of LED technology versus traditional lighting technologies. As seen in the photometric layouts below, we compared EcoForm luminaires to Philips 400W and 1000W PSMH luminaires with segmented reflectors in parking lot applications.

EcoForm luminaires attain improved minimum footcandle levels and uniformity compared to PSMH luminaires, allowing your site to have an increased sense of security without extreme bright spots at the bottom of the pole and dark areas in between poles. At the same time, the wattage reduction means that EcoForm luminaires can provide energy savings of up to 77% compared to the PSMH luminaires.

Typical retail parking lot

400W Pulse Start Metal Halide

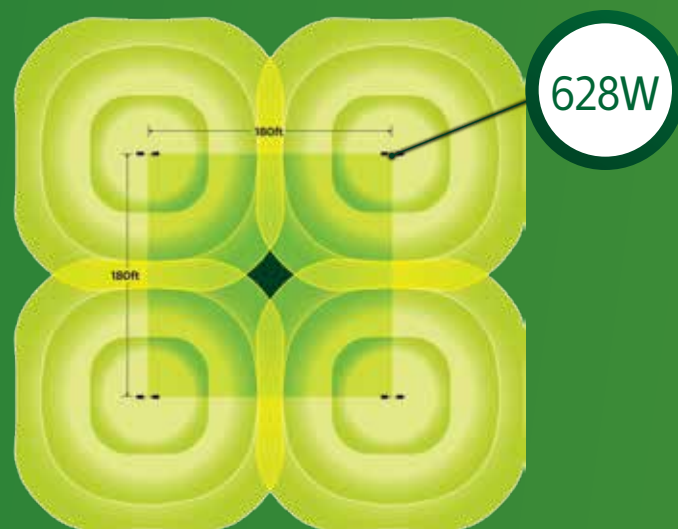
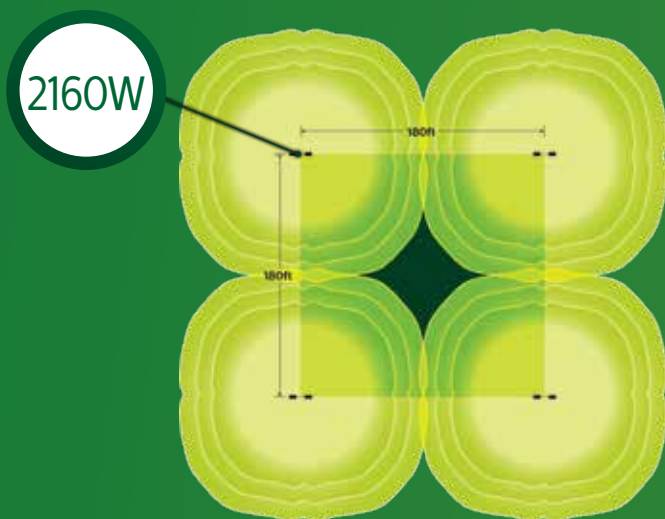
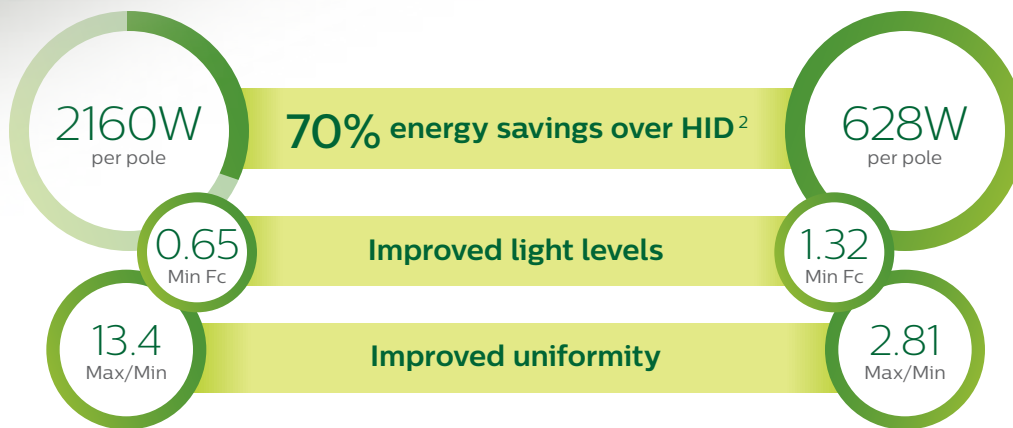
EcoForm LED - Small ECF-S-32L-1A-NW-G2-5W



1. Based on 400W PSMH (@452W) and ECF-S (ECF-S-32L-1A @ 105W). 20' mounting height.

1000W Pulse Start Metal Halide

EcoForm LED - Large ECF-L-96L-1A-NW-G2-5W



2. Based on 1000W PSMH (@1080W) and ECF-Large (ECF-L-96L-1A @ 314W). 30' mounting height.

Beyond the expected, for long-lasting satisfaction

Deliver more for your customers by integrating EcoForm luminaires with lighting controls, including our new SiteWise area lighting management system. Whether the goal is enhanced functionality, increased energy and cost savings or even network integration, Philips outdoor solutions create results to help you stand out from the crowd.



Controls



Luminaire controllable options

Basic. Autonomous. Affordable.

Simple, individual outdoor lighting dimming and management without the need for remote access.

0-10V Dimming

Luminaires are equipped with a dimmable LED driver allowing connection to external dimming controls.

Dual circuit control

This simple yet effective control solution allows authorized users to turn off half the LED boards in a luminaire to reduce energy use and extend the luminaire's longevity.

Luminaire solutions

Programmable motion response

Upon easy installation, Programmable Motion Response dims the luminaires to 25% light output, increases to 100% light output only when motion is detected, and returns to the original low output after five minutes. This maximizes outdoor lighting energy savings while supporting security efforts. Settings are easily adjusted at the luminaire with an optional wireless hand held programmer.



Dynadimmer

Dynadimmer dims the luminaire's light output according to preprogrammed or customized dimming schedules to reduce light pollution and energy consumption without compromise. Add optional Motion Response to maximize energy savings without sacrificing the sense of security.



Site solutions

Intermediate. Informative. Flexible.

Enhanced functionality to dim and manage outdoor luminaires along with convenient access to usage and other data.

Wireless controls (networked)

EcoForm luminaires are available with optional wireless controllers ready to be connected to a Limelight system. The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with other site and area luminaires, wall mount and parking garage luminaires as well, for a completely connected outdoor solution.

New: SiteWise area lighting management system

Provide a sense of security for visitors to your site while still meeting energy conservation goals with SiteWise. This complete area lighting management system uses patented central dimming technology to deliver optimal energy savings using your site's existing cabling. With no additional wiring required, installation and commissioning are simple. An intuitive mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes.

For more information

Visit us at www.philips.com/luminaires for more on Philips stand-alone and connected outdoor lighting solutions, and select Controls Outdoor, or request our outdoor lighting solutions brochure.

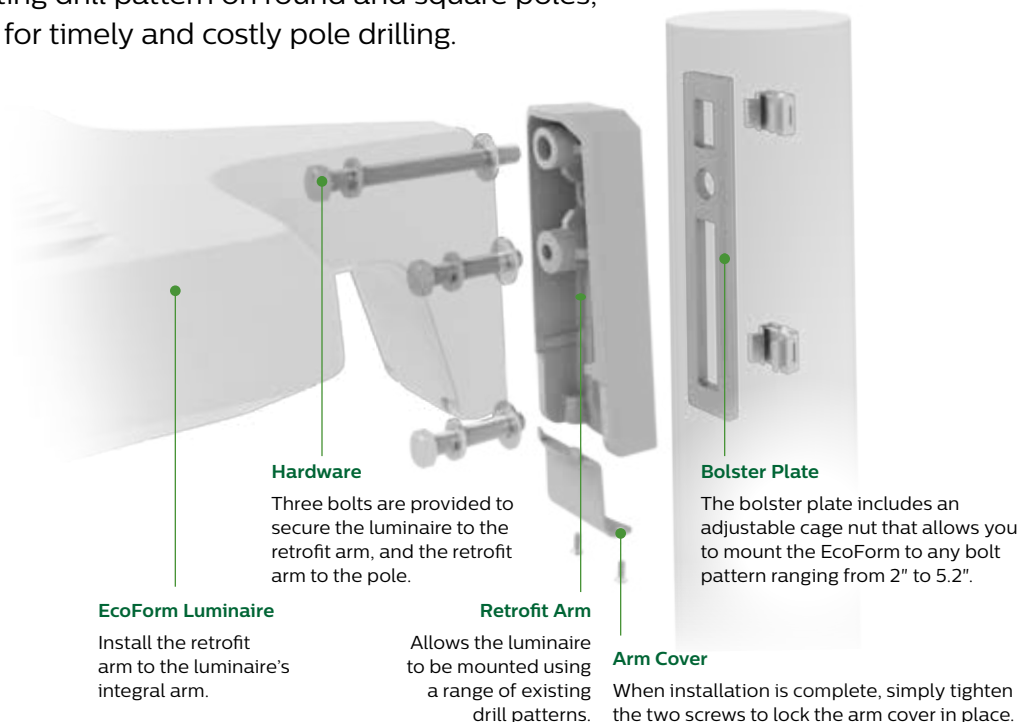
Reinforcing enhanced value through versatility

Even throughout an individual outdoor project, lighting needs may vary. This is why EcoForm luminaires are available with a variety of mounting options, including retrofit mounting styles. Now, you can efficiently and consistently deliver light across any outdoor space.



Retrofit arm mount

It's easy to repurpose existing poles by mounting EcoForm luminaires with the Retrofit Arm Mount (**RAM**). The **RAM** accessory can easily retrofit onto any existing drill pattern on round and square poles, eliminating the need for timely and costly pole drilling.



Hardware

Three bolts are provided to secure the luminaire to the retrofit arm, and the retrofit arm to the pole.

EcoForm Luminaire

Install the retrofit arm to the luminaire's integral arm.

Retrofit Arm

Allows the luminaire to be mounted using a range of existing drill patterns.

Bolster Plate

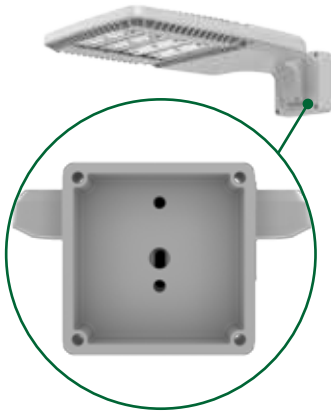
The bolster plate includes an adjustable cage nut that allows you to mount the EcoForm to any bolt pattern ranging from 2" to 5.2".

Arm Cover

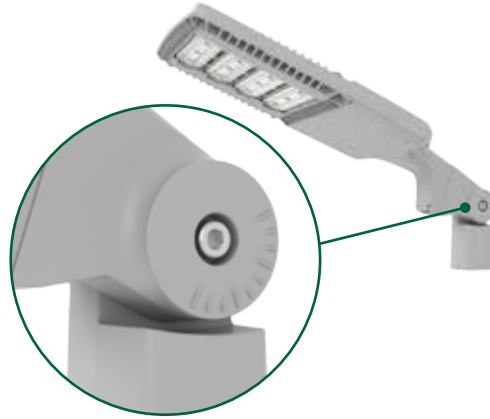
When installation is complete, simply tighten the two screws to lock the arm cover in place.

EcoForm features an adjustable slipfitter that slips over existing brackets to serve as a mast arm fitter, and also tilts in 5° increments to allow further use as a floodlight. Additionally, square and round arm mounts, and wall bracket mounts are available for new applications.

Wall mount



Slipfitter mount



Arm mount



EcoForm LED

Extended LED system life

Stylized, one piece die-cast aluminum housing with built in heat sink

Durable construction

IP66 rated optical assembly and IP65 rated electrical housing

Precisely direct light

Type 2, 3, 4, 5, 5 Wide, and Auto Front Row distributions available with optional factory pre-aimed rotation at 90° or 270°

Reduce light trespass

Internal and external shields available to control unwanted stray light

Variety of housing & lumen options

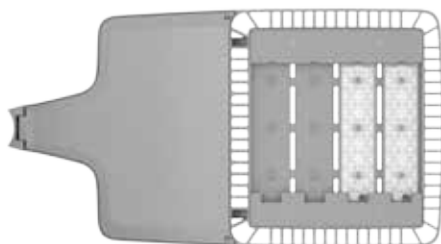
Two housing sizes available with 2, 3, 4, 5 or 6 LED modules

New installs & retrofit applications

Standard arm mount, retrofit arm mount, slipfitter mount and wall mount available

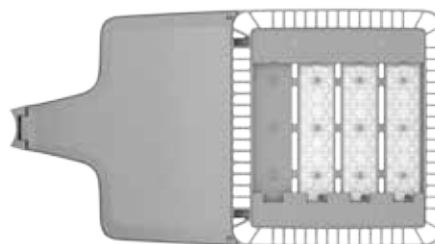
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LED configurations for the perfect amount of light



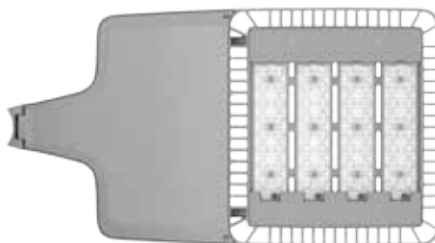
ECF-S-32L 2 module luminaire

530mA, 56W, 6700-7400 lms
700mA, 73W, 8600-9500 lms
1A, 106W, 12100-13400 lms
1.2A, 127W, 13500-14900 lms



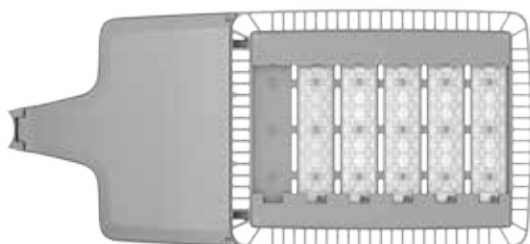
ECF-S-48L 3 module luminaire

900mA, 135W, 16000-17700 lms
1A, 159W, 18100-20000 lms
1.2A, 183W, 20100-22280 lms



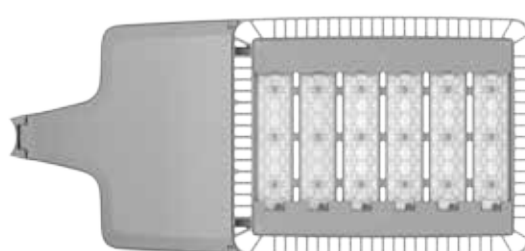
ECF-S-64L 4 module luminaire

900mA, 178W, 21200-23400 lms
1A, 206W, 23900-26400 lms



ECF-L-80L 5 module luminaire

900mA, 225W, 26600-28700 lms
1A, 265W, 30100-32300 lms
1.2A, 289W, 33200-35700 lms



ECF-L-96L 6 module luminaire

800mA, 238W, 28800-31000 lms
1A, 316W, 35800-38600 lms
1.2A, 365W, 39000-42000 lms

ECF Site & Area luminaires



ECF-S

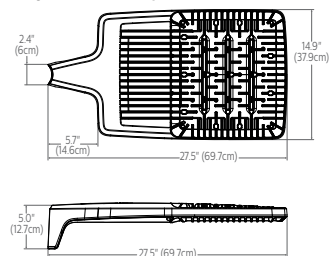
ECF-L

Dimensions

ECF-S EcoForm small

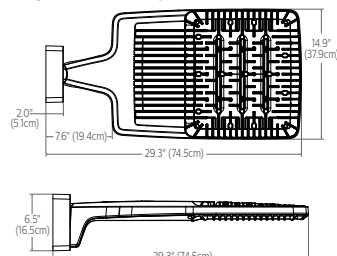
Standard Arm (AR)

Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)



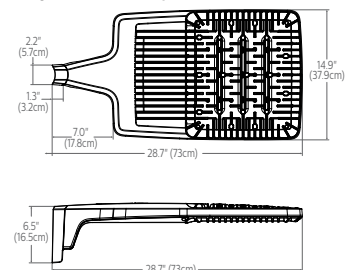
Wall (WS)

Weight: 27 Lbs. (12.2Kg) EPA: 0.27ft² (.025m²)



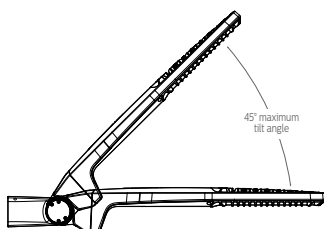
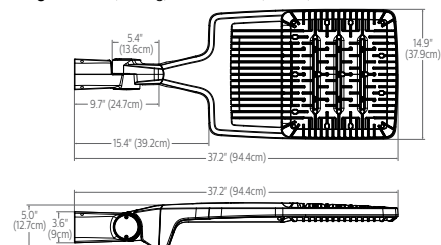
Retrofit Arm (RAM)

Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft² (.022m²)

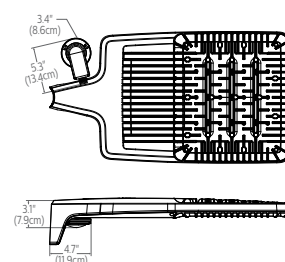


Slipfitter (SF)

Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft² (.031m²)



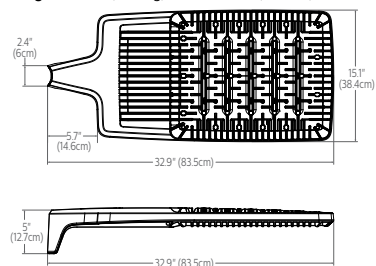
Outboard IMR-HVU sensor



ECF-L EcoForm large

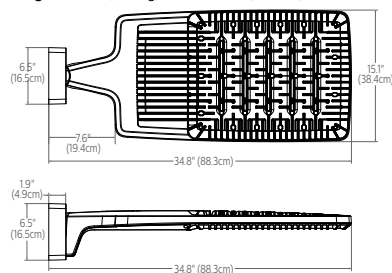
Standard Arm (AR)

Weight: 27 Lbs (12.2 Kg) EPA: 0.24ft² (.022m²)



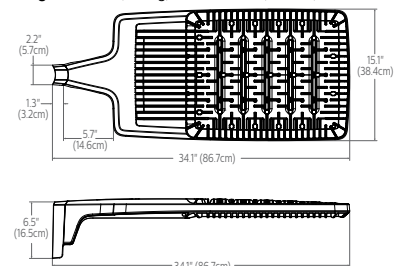
Wall (WS)

Weight: 31Lbs. (14.1 Kg) EPA: 0.31ft² (.028m²)



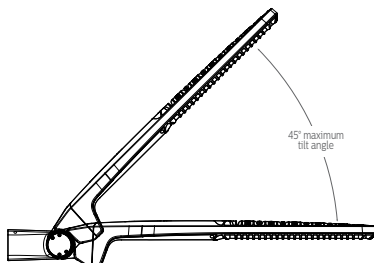
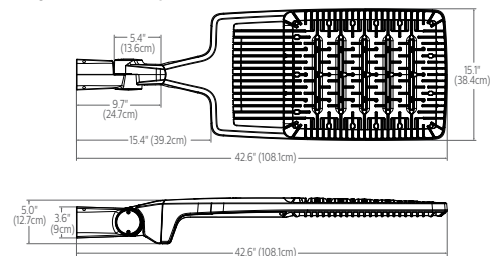
Retrofit Arm (RAM)

Weight: 29 Lbs. (13.1Kg) EPA: 0.27ft² (.025m²)

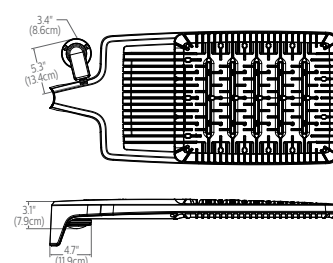


Slipfitter (SF)

Weight: 32 Lbs (14.5 Kg) EPA: 0.36ft² (.033m²)



Outboard IMR-HVU sensor



Ordering guide

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options			Finish
							Controls	Electrical	Luminaire	
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ECF-S EcoForm Site & Area, Small	32L 32 LEDs (2 modules)	530 530mA 700 700mA 1A 1050mA 1.2A 1200mA	WW-G2 Warm White 3000K, 70 CRI Generation 2 NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5000K, 70 CRI Generation 2	AR Arm Mount (standard) <i>The following mounting kits must be ordered separately (See accessories)</i> SF Slipfitter Mount (fits to 2 3/8" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM Retrofit arm mount kit	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270°	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVU 347-480V (50/60Hz)	DD 0-10V Dimming Driver DCC Dual Circuit Control DynaDimmer: Automatic Profile Dimming CS50 Safety 50% Dimming, 7 hours CM50 Median 50% Dimming, 8 hours CE50 Economy 50% Dimming, 9 hours DA50 All Night 50% Dimming Photoelectric/Receptacle Systems (Twist Lock Receptacle) PCB Photocontrol Button TLRD5 Twist Lock Receptacle 5 Pin TLRD7 Twist Lock Receptacle 7 Pin TLRPC Twist Lock Receptacle w/Photocell Infrared Motion Response Systems IMRI3 Integral with #3 lens IMRI7 Integral with #7 lens Pole Mounted Infrared Motion Response Systems with DynaDimmer CS50-IMRO with Safety 50% Dimming CM50-IMRO with Median 50% Dimming CE50-IMRO with Economy 50% Dimmin DA50-IMRO with All Night 50% Dimming Wireless Controls LLC2 Integral module with #2 lens LLC3 Integral module with #3 lens LLC4 Integral module with #4 lens	TB Terminal Block Fusing F1 Single (120, 277, 347VAC) F2 Double (208, 240, 480VAC) Pole Mount Fusing FP1 Single (120, 277, 347VAC) FP2 Double (208, 240, 480VAC) FP3 Canadian Double Pull (208, 240, 480VAC) Surge Protection SP1 Standard 10kA SP2 Increased 20kA	RPA Round Pole Adapter (fits to 3"- 3.9" O.D. pole) ¹⁰ HIS Internal House Side Shield	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)
	48L 48 LEDs (3 modules)	900 900mA 1A 1050mA 1.2A 1200mA								
	64L 64 LEDs (4 modules)	900 900mA 1A 1050mA								
ECF-L EcoForm Site & Area, Large	80L 80 LEDs (5 modules)	900 900mA 1A 1050mA 1.2A 1200mA								
	96L 96 LEDs (6 modules)	800 800mA 1A 1050mA 1.2A 1200mA								

Prior to ordering, consult specification sheets on philips.com/luminaires for the most current information, notes, and exclusions.

Accessories (ordered separately, field installed)

Controls Accessories

Pole Mount Motion Sensor

MS-A-120V 120V Input
MS-A-277V 277V Input

Wireless controls Remote mount module

LLCR2-(F) #2 lens
LLCR3-(F) #3 lens
LLCR4-(F) #4 lens

Shielding Accessories

House Side shield

Standard orientation:

HIS-32-H Internal House Side Shield for 32 LEDs (2 modules)
HIS-48-H Internal House Side Shield for 48 LEDs (3 modules)
HIS-64-H Internal House Side Shield for 64 LEDs (4 modules)
HIS-80-H Internal House Side Shield for 80 LEDs (5 modules)
HIS-96-H Internal House Side Shield for 96 LEDs (6 modules)

At 90 or 270 orientation:

HIS-32-V Internal House Side Shield for 32 LEDs (2 modules)
HIS-48-V Internal House Side Shield for 48 LEDs (3 modules)
HIS-64-V Internal House Side Shield for 64 LEDs (4 modules)
HIS-80-V Internal House Side Shield for 80 LEDs (5 modules)
HIS-96-V Internal House Side Shield for 96 LEDs (6 modules)

Luminaire Accessories

ECF-BD-G2

Bird deterrent
PTF2-(F) Pole top fitter fits 2 3/8-2 1/2" OD x 4" depth tenon with
1, 2, 3 or 4 luminaires at 90°

PTF3-(F) Pole top fitter fits 3-3 1/2" OD x 6" depth tenon with
1, 2, 3 or 4 luminaires at 90°

PTF4-(F) Pole top fitter fits 3 1/2-4" OD x 6" depth tenon with
1, 2, 3 or 4 luminaires at 90°

ECF-SF-G2-(F) Slip Fitter Mount (fits to 2 3/8" O.D. tenon)

ECF-RAM-G2-(F) Retrofit Arm mount kit

ECF-WS-G2-(F) Wall mount with surface conduit rear entry permitted

(F) = Specify finish

A proactive partner to build upon your success

Find out how Philips Gardco EcoForm luminaires help you to bring short and long term value to your customers. Contact your local Philips Sales Representative for a personal demonstration or visit www.philips.com/ecoform for more information.

