Site & Area



EcoForm



ECF-L large area luminaire

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 52,500 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project:	
Location:	
Cat.No:	
Туре:	
Lamps:	Qty:
Notes:	

Orderina auide

Example: ECF-L-96L-1A-CW-AR-AFR-90-120-DD-PCB-F1-SP1-TB-RPA-HIS-BK

	de				Example. L	CF-L-96L-1A-CW-AR-AI	00 .20 22 . 02	11 01 1 10	
Prefix ECF-L	Number of LEDs	Drive Current	LED Color - Generati	on Mount	ing	Distribution		V	oltage/
ECF-L EcoForm site and area, large	80L 80 LEDs (5 module: 96 96 LEDs (6 module:	1.2A 1200 mA	NW-G2 Neutral White 4000K, 70 C Generation CW-G2 Cool White 5000K, 70 C	The fo kits mu separa access	Arm Mount (standard) Illowing mounting ust be ordered ately (See sories) Slip Fitter Mount (fits to 2 ³/s" O.D. tenon) Wall mount with surface conduit rear entry permitted Retrofit arm mount kit	Type 2 2	AFR-2/O Auto Froi Rotated i BLC Back Ligh o BLC-90 Back Ligh 70° BLC-270 Back Ligh rotated a LCL'19 LEED Cor Optic Lef	nt Row 12 Row 14 Row 15	20 120V 108 208V 140 240V 177 277V 147 347V 180 480V 1NV 120-277' (50/60H 1VU 347-480 (50/60H
Options Dimming controls		Motion se	nsing lens	Photo-ser	nsing	Electrical	Luminaire	Finish	
DD4-18 O-10V External dimming (for controls by others) DCC-4.5.6.18 Dual Circuit Control FAWS-4.5.18 Field Adjustable Wattage Selector SRDR-4.5.6.8.17 SR driver connected to Zhaga socket DynaDimmer: Automatic Profile Dimming CS50-8 Safety 50% Dimming, 7 hours Median 50% Dimming, 8 hours CM50-8 Median 30% Dimming, 7 hours Median 30% Dimming, 8 hours CM30-8 Bi-level functionality		Zhaga mming ours hours ours hours lmRi3¹⁵ In IMRI7¹⁵ In IMRI7¹⁵ In Eles SR e - do in		PCB ^{9,9} TLRD5 ^{10,17} TLRD7 ^{10,17} TLRPC ^{9,10,11}	Photocontrol Button Twist Lock Receptacle 5 Pin Twist Lock Receptacle 7 Pin Twist Lock Receptacle w/Photocell	Fusing F1° Single (120, 277, 347VAC) F2° Double (208, 240, 480VAC) Pole Mount Fusing FP1° FP1° Single (120, 277, 347VAC) FP2° Double (208, 240, 480VAC) FP3° Canadian Double Pull (208, 240, 480VAC) Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included in standard product TB¹² Terminal Block RPA¹³ Round Pole Adapter (fits to 3"- 3.9" O.D. pole) HIS¹⁴ Internal House Side Shield	DGY Dar MGY Med Customer RAL Spe cold (ex: CC Cus (Mu	ite Inze k Gray dium Gray

- BL-IMRI3/7 equipped with out-boarded sensor housing when voltage 10. TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when is HVU (347-480V) Mounts to a 4" round pole with adapter included for square poles.
- Limited to a maximum of 45 degrees aiming above horizontal.
- Not available with other dimming control options.
 Not available with motion sensor.
 Not available with photocontrol.

- BL must be combined with Motion sensing lens IMRI3 or IMRI7.
- Not available in 347 or 480V Must specify input voltage.

- ordered with any of the Dimming controls DD or FAWS or LLC. Not available in 480V. Order photocell separately with TLRD5/7. Not available with DCC.
- Not available with SF and WS. RPAs provided with black finish standard.
- HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics. Not available with DD, DCC, FAWS, SRDR, or WIAP dimming control options.
- 16. WIAP must be combined with Motion sensing lens LB or LW or HB or HW.
- 17. When ordering SRDR, controller (by others) to be used on socket must be SR compatible (See specifications for more details). Consult factory for lead time. All 7 pins in NEMA receptacle are connected to SR driver. SRDR not available with TLRD5 or TLRPC.
- 18. 0-10V dimming driver standard.

 19. 120V or 277V only, not available with SRDR or any DynaDimmer options or WIAP (due to driver limitations).









Area luminaire

EcoForm Accessories²¹ (ordered separately, field installed)

Shielding Accessories

House Side Shield

Standard optic orientation

HIS-80-H²⁰ Internal House Side Shield for 80 LEDs (5 modules)
HIS-96-H²⁰ Internal House Side Shield for 96 LEDs (6 modules)

Optic at 90 or 270 orientation

HIS-80-H²⁰ Internal House Side Shield for 80 LEDs (5 modules)
HIS-96-H²⁰ Internal House Side Shield for 96 LEDs (6 modules)

Footnotes

20. Not available with Type 5 or 5W optics.

21. Consult Signify to confirm whether specific accessories are BAA-compliant.

Luminaire Accessories

ECF-BD-G2 Bird deterrent
ECF-RAM-G2-(F) Retrofit Arm mount kit

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

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

Controls Accessories

IRT9015 Handheld remote for grouping and configuration of Wireless

Interact WIAP (at least 1 required per site or use the Interact

Pro App).

Pole Top Fitters

(F) = Specify finish

PTF2 - Pole top fitter fits 23/8-21/2" OD x 4" depth tenon

PTF2-1-90-(F)	1 luminiare at 90°
PTF2-2-90-(F)	2 luminiares at 90°
PTF2-2-180-(F)	2 luminiares at 180°
PTF2-3-90-(F)	3 luminiares at 90°
PTF2-4-90-(F)	4 luminiares at 90°
PTF2-3-120-(F)	3 luminiares at 120°

PTF3 - Pole top fitter fits 3-31/2" OD x 6" depth tenon

PTF3-1-90-(F)	1 luminiare at 90°
PTF3-2-90-(F)	2 luminiares at 90°
PTF3-2-180-(F)	2 luminiares at 180°
PTF3-3-90-(F)	3 luminiares at 90°
PTF3-4-90-(F)	4 luminiares at 90°
PTF3-3-120-(F)	3 luminiares at 120°

Area luminaire

Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. $Actual\ experience\ may\ vary\ due\ to\ field\ application\ conditions. L_{70}\ is\ the\ predicted\ time\ when\ LED\ performance\ depreciates\ to\ 70\%\ of\ performance\ performance\ depreciates\ to\ 70\%\ of\ performance\ per$ initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1400 mA	>100,000 hours	>90,000 hours	>96%

2 MH

1 MH

1 MH

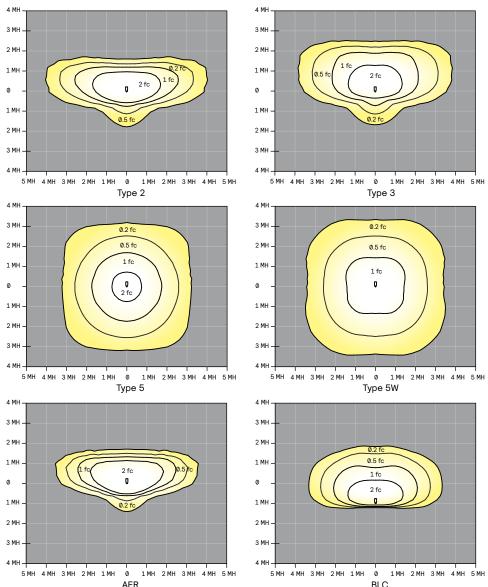
2 MH

0.5 fc

Type 4

Optical Distributions

Based on configuration ECF-L-96L-1.2A-NW-G2 (265W) mounted at 40ft.



Area luminaire

3000K LED Wattage and Lumen Values

		LED		Average		Type 2			Туре 3			Type 4			Type 5			Type 5W	
Ordering Code	Total LEDs	Current	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)												
ECF-L-80L-900-WW-G2-x	80	900	3000	225	28,306	B3-U0-G3	126	27,834	B3-U0-G4	124	28,348	B3-U0-G4	126	29,155	B5-U0-G4	130	28,844	B5-U0-G4	128
ECF-L-80L-1A-WW-G2-x	80	1050	3000	265	31,927	B4-U0-G4	120	31,396	B3-U0-G4	118	31,974	B3-U0-G5	121	32,884	B5-U0-G4	124	32,534	B5-U0-G4	123
ECF-L-80L-1.2A-WW-G2-x	80	1200	3000	289	35,217	B4-U0-G4	122	34,630	B3-U0-G5	120	35,269	B3-U0-G5	122	36,272	B5-U0-G4	125	35,886	B5-U0-G4	124
ECF-L-96L-800-WW-G2-x	96	800	3000	238	30,570	B4-U0-G4	129	30,011	B3-U0-G4	126	30,617	B3-U0-G5	129	31,487	B5-U0-G4	132	31,151	B5-U0-G4	131
ECF-L-96L-1A-WW-G2-x	96	1050	3000	316	38,058	B4-U0-G4	120	37,425	B3-U0-G5	118	38,116	B3-U0-G5	120	39,200	B5-U0-G4	124	38,783	B5-U0-G5	123
ECF-L-96L-1.2A-WW-G2-x	96	1200	3000	365	41,398	B4-U0-G4	113	40,709	B4-U0-G5	112	41,460	B3-U0-G5	114	42,640	B5-U0-G4	117	42,186	B5-U0-G5	116
ECF-L-96L-1.4A-WW-G2-x	96	1370	3000	422	44,566	B4-U0-G4	106	46,173	B4-U0-G5	109	45,613	B4-U0-G5	108	46,848	B5-U0-G5	111	45,530	B5-U0-G5	108
		LED		Average		Type AFR			BLC										
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)									
ECF-L-80L-900-WW-G2-x	80	900	3000	225	29,065	B4-U0-G3	129	19,749	B1-U0-G3	89									
ECF-L-80L-1A-WW-G2-x	80	1050	3000	265	32,784	B4-U0-G3	124	22,276	B1-U0-G4	85									
ECF-L-80L-1.2A-WW-G2-x	80	1200	3000	289	36,162	B4-U0-G3	125	24,572	B1-U0-G4	86									
ECF-L-96L-800-WW-G2-x	96	800	3000	238	31,391	B4-U0-G3	132	21,294	B1-U0-G4	91									
ECF-L-96L-1A-WW-G2-x	96	1050	3000	316	39,080	B4-U0-G4	124	26,554	B1-U0-G4	85									
ECF-L-96L-1.2A-WW-G2-x	96	1200	3000	365	42,509	B4-U0-G4	116	28,885	B1-U0-G4	80									
				422															

4000K LED Wattage and Lumen Values

		LED		Average	Type 2			Type 3			Туре 4				Type 5		Type 5W		
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)												
ECF-L-80L-900-NW-G2-x	80	900	4000	225	29,796	B3-U0-G3	132	29,299	B3-U0-G4	130	29,840	B3-U0-G5	133	30,689	B5-U0-G4	136	30,362	B5-U0-G4	135
ECF-L-80L-1A-NW-G2-x	80	1050	4000	265	33,607	B4-U0-G4	127	33,048	B3-U0-G5	125	33,657	B3-U0-G5	127	34,615	B5-U0-G4	131	34,246	B5-U0-G4	129
ECF-L-80L-1.2A-NW-G2-x	80	1200	4000	289	37,070	B4-U0-G4	128	36,453	B3-U0-G5	126	37,125	B3-U0-G5	128	38,181	B5-U0-G4	132	37,775	B5-U0-G4	131
ECF-L-96L-800-NW-G2-x	96	800	4000	238	32,179	B4-U0-G4	135	31,590	B3-U0-G4	133	32,228	B3-U0-G5	136	33,144	B5-U0-G4	139	32,791	B5-U0-G4	138
ECF-L-96L-1A-NW-G2-x	96	1050	4000	316	40,061	B4-U0-G4	127	39,395	B3-U0-G5	124	40,122	B3-U0-G5	127	41,263	B5-U0-G4	130	40,824	B5-U0-G5	129
ECF-L-96L-1.2A-NW-G2-x	96	1200	4000	365	43,577	B4-U0-G4	119	42,852	B4-U0-G5	117	43,642	B3-U0-G5	120	44,884	B5-U0-G4	123	44,406	B5-U0-G5	122
ECF-L-96L-1.4A-NW-G2-x	96	1370	4000	422	48,179	B4-U0-G4	114	49,917	B4-U0-G5	118	49,311	B4-U0-G5	117	50,647	B5-U0-G5	120	49,221	B5-U0-G5	117
		LED		Average		Type AFR		BLC											
Ordering Code	Total LEDs		Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)									
ECF-L-80L-900-NW-G2-x	80	900	4000	225	30,595	B4-U0-G3	136	21,350	B1-U0-G4	96									
ECF-L-80L-1A-NW-G2-x	80	1050	4000	265	34,509	B4-U0-G3	130	24,082	B1-U0-G4	92									
ECF-L-80L-1.2A-NW-G2-x	80	1200	4000	289	38,065	B4-U0-G3	132	26,563	B1-U0-G4	93									
ECF-L-96L-800-NW-G2-x	96	800	4000	238	33,043	B4-U0-G3	139	23,020	B1-U0-G4	98									
ECF-L-96L-1A-NW-G2-x	96	1050	4000	316	41,137	B4-U0-G4	130	28,707	B1-U0-G4	92									
ECF-L-96L-1.2A-NW-G2-x	96	1200	4000	365	44,746	B4-U0-G4	123	31,226	B1-U0-G4	87									
ECF-L-96L-1.4A-NW-G2-x	96	1370	4000	422	52,478	B4-U0-G4	124	39,055	B2-U0-G5	92									

 $Values from \ photometric \ tests \ performed \ in \ accordance \ with \ IESNA \ LM-79 \ and \ are \ representative \ of \ the \ configurations \ shown.$

Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

Area luminaire

ECF-L-80L-1.2A-CW-G2-x

ECF-L-96L-800-CW-G2-x

ECF-L-96L-1A-CW-G2-x

ECF-L-96L-1.2A-CW-G2-x

ECF-L-96L-1.4A-CW-G2-x

5000K LED Wattage and Lumen Values

1200

800

1050

1200

1370

96

96

96

5000

5000

5000

5000

5000

289

238

316

365

422

		LED		Average		Туре 2			Туре 3			Type 4			Type 5			Type 5W		
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)													
ECF-L-80L-900-CW-G2-x	80	900	5000	225	29,796	B3-U0-G3	132	29,299	B3-U0-G4	130	29,840	B3-U0-G5	133	30,689	B5-U0-G4	136	30,362	B5-U0-G4	135	
ECF-L-80L-1A-CW-G2-x	80	1050	5000	265	33,607	B4-U0-G4	127	33,048	B3-U0-G5	125	33,657	B3-U0-G5	127	34,615	B5-U0-G4	131	34,246	B5-U0-G4	129	
ECF-L-80L-1.2A-CW-G2-x	80	1200	5000	289	37,070	B4-U0-G4	128	36,453	B3-U0-G5	126	37,125	B3-U0-G5	128	38,181	B5-U0-G4	132	37,775	B5-U0-G4	131	
ECF-L-96L-800-CW-G2-x	96	800	5000	238	32,179	B4-U0-G4	135	31,590	B3-U0-G4	133	32,228	B3-U0-G5	136	33,144	B5-U0-G4	139	32,791	B5-U0-G4	138	
ECF-L-96L-1A-CW-G2-x	96	1050	5000	316	40,061	B4-U0-G4	127	39,395	B3-U0-G5	124	40,122	B3-U0-G5	127	41,263	B5-U0-G4	130	40,824	B5-U0-G5	129	
ECF-L-96L-1.2A-CW-G2-x	96	1200	5000	365	43,577	B4-U0-G4	119	42,852	B4-U0-G5	117	43,642	B3-U0-G5	120	44,884	B5-U0-G4	123	44,406	B5-U0-G5	122	
ECF-L-96L-1.4A-CW-G2-x	96	1370	5000	422	48,179	B4-U0-G4	114	49,917	B4-U0-G5	118	49,311	B4-U0-G5	117	50,647	B5-U0-G5	120	49,221	B5-U0-G5	117	
		LED		Average		Type AFR		BLC		BLC										
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)										
ECF-L-80L-900-CW-G2-x	80	900	5000	225	30,595	B4-U0-G3	136	21,350	B1-U0-G4	96										
ECF-L-80L-1A-CW-G2-x	80	1050	5000	265	34,509	B4-U0-G3	130	24,082	B1-U0-G4	92										

26,563 B1-U0-G4

23.020 B1-U0-G4

39,055 B2-U0-G5

28,707

31,226

B1-U0-G4

B1-U0-G4

98

92

92

87

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown.

38,065 B4-U0-G3

B4-U0-G3

B4-U0-G4

B4-U0-G4

B4-U0-G4

139

130

123

124

33,043

41,137

44,746

52,478

Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations It is highly recommended to confirm performance with a photometric layout.

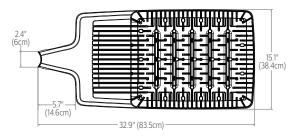
 $NOTE: Some\ data\ may\ be\ scaled\ based\ on\ tests\ of\ similar\ (but\ not\ identical)\ luminaires.\ Contact\ factory\ for\ configurations\ not\ shown.$

Area luminaire

Dimensions

Standard Arm (AR)

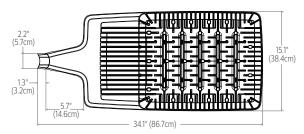
Weight: 27 Lbs (12.2 Kg)EPA: 0.24ft² (.022m²)





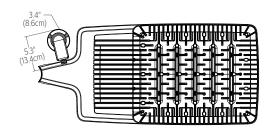
Retrofit Arm (RAM)

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





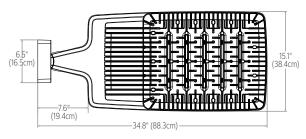
Outboard IMR-HVU sensor





Wall (WS)

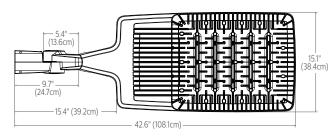
Weight: 31Lbs. (14.1 Kg) EPA: 0.31ft² (.028m²)

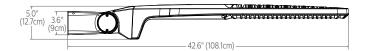




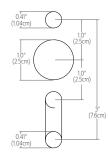
Slip fitter (SF)

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

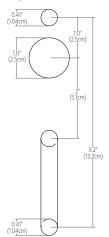




Standard Arm (AR) drill pattern



Retrofit Arm (RAM) drill pattern

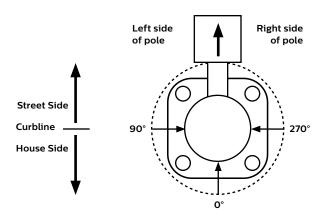


Area luminaire

Optical Orientation Information

Standard Optic Position

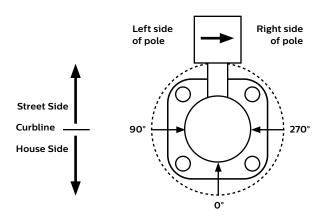
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Right (270°) Optic Position

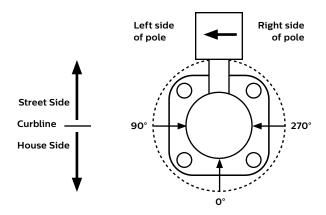
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

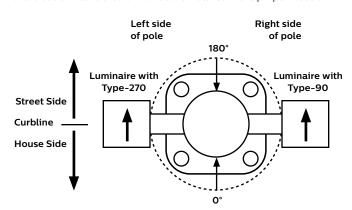
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

Area luminaire

Specifications

Housing

One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2018. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 5 and 6 modules or 80 and 96 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 139 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions, including a dedicated BLC optic to provide the best backlight control possible for those stringent requirements around property lines. Types 2, 3, 4, AFR, and BLC when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- CS50/CS30: Security for 7 hours night duration (Ex., 11 PM 6 AM)
- CM50/CM30: Median for 8 hours night duration (Ex., 10 PM 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

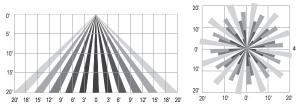
Motion response options

Bi-Level Infrared Motion Response (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

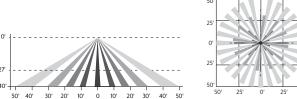
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (IMRI3/IMRI7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

IMRI3 Luminaire or remote mount controller with #3 lens



IMRI7 Luminaire or remote mount controller with #7 lens



Area luminaire

Specifications

Control options

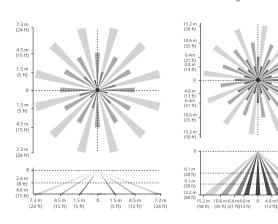
Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling and BMS integration. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. The App provides flexibility to choose between a standalone or gateway mode. Setup with the gateway requires wired Internet access to the gateway. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming – activated via the Interact App. Sensors IP66 rated.

For more information on Interact Pro visit:

www.interact-lighting.com/interactproscalablesystem

LB or LW low sensor

HB or HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twistlock receptacle (TLRD7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLRPC), the receptacle used is a 5-pin receptacle, so pins 6 and 7 are not available (no SR driver). 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listinas

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

EcoForm luminaires feature a 5-year limited warranty
See signify.com/warranties for complete details and exclusions.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.



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