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DRC

PZ23-12000032

12/02/19/2025

**Utilities Structures, Inc.**
**PO Box 9303**
**2700 Evans Ave.**
**Fort Myers, FL. 33901**

*"Your concrete pole producer since 1988"*

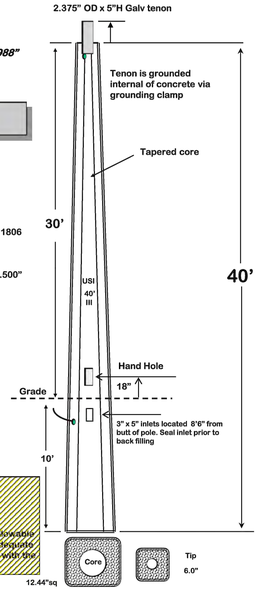
uslpoles@aol.com
www.utilitiesstructures.com

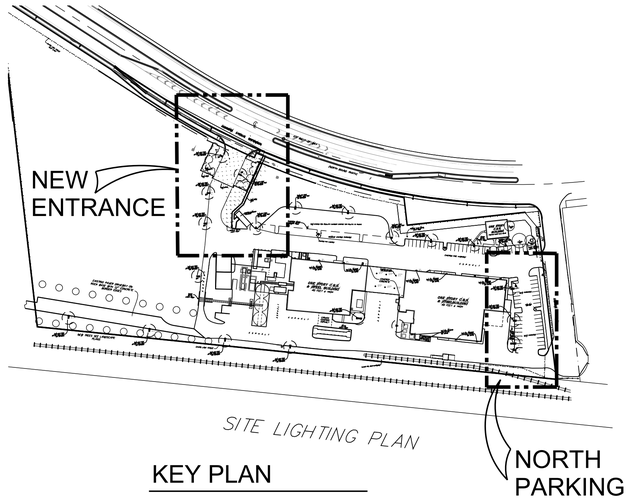
**USI40TIII-11686**

**Prestressed Concrete Pole**

- Pole Weight= 3,280lbs
- Wind speed= 180mph Vult
- Exposure = "C"
- Risk Category II
- Wind Gust = 3 seconds
- 8th Edition 2023 FBC 1620 HVHZ, 1609, 1806
- ASCE 7-22
- Concrete= 7,500lbs @ 28 days
- Grd. Wire= #6 Copper
- Strand= (4) .500" @ 70% Ultimate + (4) .500"
- Tenon= 2.375" x 5" Galv Tenon

**MP STRUCTURES**
**RUTH POWELL, P.E., S.E.**




KEY PLAN

LIGHT POLE LIGHT TYPES SA, SB & SC, SD, SE. SF.

GARDCO

Site and 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:
Type:
Lamps: Qty:
Notes:

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

| Prefix | Number of LEDs | Drive Current | LED Color – Generation | Mounting | Distribution | Voltage |
|---|---|---|---|---|---|---|
| ECF-L | | | | | | |
| ECF-L EcoForm site and area, large | 80L 80 LEDs (5 modules)<br>96 96 LEDs (6 modules) | 900 900 mA<br>1A 1050 mA<br>1.2A 1200 mA<br>800 800 mA<br>1A 1050 mA<br>1.2A 1200 mA<br>1.44A[1] 1400 mA | WW-G2 Warm White 3000K, 70CRI Generation 2<br>NW-G2 Neutral White 4000K, 70CRI Generation 2<br>CW-G2 Cool White 5000K, 70CRI Generation 2 | AR[2] Arm Mount (standard)<br>The following mounting kits must be ordered separately (See accessories)<br>SF[3] Slip Fitter Mount (fits to 2¹/₄" O.D. tenon)<br>WS Wall mount with surface conduit entry (where permitted)<br>RAM[4] Retrofit arm mount kit | Type 2<br>2 Type 2<br>2-90 Rotated left 90°<br>2-270 Rotated right 270°<br>Type 3<br>3 Type 3<br>3-90 Rotated left 90°<br>3-270 Rotated right 270°<br>Type 4<br>4 Type 4<br>4-90 Rotated left 90°<br>4-270 Rotated right 270°<br>Type 5<br>5 Type 5<br>5W Type 5W<br>AFR Auto Front Row<br>AFR-90 Auto Front Row, Rotated left 90°<br>AFR-270 Auto Front Row, Rotated right 270°<br>BLC Back Light Control<br>BLC-90 Back Light Control rotated at 90°<br>BLC-270 Back Light Control rotated at 270°<br>LCL[5] LEED Corner Optic Left<br>RCL[5] LEED Corner Optic Right | 120 120V<br>208 208V<br>240 240V<br>277 277V<br>347 347V<br>480 480V<br>UNV 120-277V (50/60Hz)<br>HVU 347-480V (50/60Hz) |

| Options: Dimming controls | Motion sensing lens | Photo-sensing | Options | Luminaire | Finish |
|---|---|---|---|---|---|
| DD[1,18] 0–10V External dimming (for controls by others)<br>DCC[4,6,8,18] Dual Circuit Control<br>FAWS[4,6,18] Field Adjustable Wattage Selector<br>SRDR[4,6,8,9,17] SR driver connected to Zhaga socket<br>**DynaDimmer:** Automatic Profile Dimming<br>CS50[4,6] Safety 50% Dimming, 7 hours<br>CM50[4,6] Median 50% Dimming, 8 hours<br>CS30[4,6] Safety 30% Dimming, 7 hours<br>CM30[4,6] Median 30% Dimming, 8 hours<br>BL[1,4,7,18] Bi-level functionality<br>WAP[4,6,18] Wireless Interact (includes SR driver and SR receptacle - do NOT select SRDR) | IMR3[9] Integral with #3 lens<br>IMR7[9] Integral with #7 lens<br>LB Low (7'-10" mounting height) sensor, Black color housing<br>LW Low (7'-10" mounting height) sensor, White color housing<br>HB High (15'-40' mounting height) sensor, Black color housing<br>HW High (15'-40' mounting height) sensor, White color housing | PCB[4,9] Photocontrol Button<br>TLRD5[6,10] Twist Lock Receptacle 5 Pin<br>TLRD7[6,10] Twist Lock Receptacle 7 Pin<br>TLRPC[4,6,10,11] Twist Lock Receptacle w/Photocell | Fusing<br>F1[9] Single (120, 277, 347VAC)<br>F2[9] Double (208, 240, 480VAC)<br>Pole Mount Fusing<br>FP1[9] Single (120, 277, 347VAC)<br>FP2[9] Double (208, 240, 480VAC)<br>FP3[9] Canadian Double Pull (208, 240, 480VAC)<br>Surge Protection (10kA standard)<br>SP2 Increased 20kA<br>BAC[20,21] Meets the requirements of the Buy American Act of 1933 (BAA) | Square Pole Adapter Included in standard product<br>TB[9] Terminal Block<br>RPA[9] Round Pole Adapter (fits to 3"– 3.9" O.D. pole)<br>HIS[9] Internal House Side Shield | Textured<br>BK Black<br>WH White<br>BZ Bronze<br>DGY Dark Gray<br>MGY Medium Gray<br>Customer specified<br>RAL Specify optional color or RAL (ex: RAL7024)<br>CC Custom color (Must supply color chip for required factory quote) |

1. BL=IMR3/7 equipped with out-boarded sensor housing when voltage is HVU (347–480V).
2. Mounts to 4" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Must specify a motion sensor lens.
8. BL must be combined with Motion sensing lens (IMR3 or IMR7.
9. Not available in 347–480V.
10. Must specify input voltage.
11. TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LC.
12. Not available in 480V. Order photocell separately with TLRD5/7.
13. Not available with SF and WS. RPAs provided with black finish standard.
14. HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics.
15. Not available with DD, DCC, FAWS, SRDR, or WAP dimming control options.
16. 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.
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 WAP (due to driver limitations).
20. Extended lead times apply. Contact factory for details
21. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA-compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (1) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (2) 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.



GARDCO

Site and Area
EcoForm
ECF-S small area light

**Gardco EcoForm Gen–2** combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 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:
Type:
Lamps: Qty:
Notes:

Ordering guide — **Example:** ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

| Prefix | Number of LEDs | Drive Current | LED Color – Generation | Mounting | Distribution | Voltage |
|---|---|---|---|---|---|---|
| ECF-S | | | | | | |
| ECF-S EcoForm site and area, small | 32L 32 LEDs (2 modules)<br>48L 48 LEDs (3 modules)<br>64L 64 LEDs (4 modules) | 365 365 mA<br>530 530 mA<br>700 700 mA<br>1A 1050 mA<br>1.2A 1200 mA<br>900 900 mA<br>1A[18] 1050 mA<br>1.2A[18] 1200 mA<br>900 900 mA<br>1A[18] 1050 mA | WW-G2 Warm White 3000K, 70CRI Generation 2<br>NW-G2 Neutral White 4000K, 70CRI Generation 2<br>CW-G2 Cool White 5000K, 70CRI Generation 2 | AR[2] Arm Mount (standard)<br>The following mounting kits must be ordered separately (See accessories)<br>SF[3] Slip Fitter Mount (fits to 2¹/₄" O.D. tenon)<br>WS Wall mount with surface conduit entry (where permitted)<br>RAM[4] Retrofit arm mount kit | Type 2<br>2 Type 2<br>2-90 Rotated left 90°<br>2-270 Rotated right 270°<br>Type 3<br>3 Type 3<br>3-90 Rotated left 90°<br>3-270 Rotated right 270°<br>Type 4<br>4 Type 4<br>4-90 Rotated left 90°<br>4-270 Rotated right 270°<br>Type 5<br>5 Type 5<br>5W Type 5W<br>AFR Auto Front Row<br>AFR-90 Auto Front Row, Rotated left 90°<br>AFR-270 Auto Front Row, Rotated right 270°<br>BLC Back Light Control<br>BLC-90 Back Light Control rotated at 90°<br>BLC-270 Back Light Control rotated at 270°<br>LCL[5] LEED Corner Optic Left<br>RCL[5] LEED Corner Optic Right | 120 120V<br>208 208V<br>240 240V<br>277 277V<br>347 347V<br>480 480V<br>UNV 120–277V (50/60Hz)<br>HVU 347–480V (50/60Hz) |

| Options: Dimming controls | Motion sensing lens | Photo-sensing | Options | Luminaire | Finish |
|---|---|---|---|---|---|
| DD[1,18] 0–10V External dimming (for controls by others)<br>DCC[4,6,8,18] Dual Circuit Control<br>FAWS[4,6,18] Field Adjustable Wattage Selector<br>SRDR[4,6,8,9,17] SR driver connected to Zhaga socket<br>**DynaDimmer:** Automatic Profile Dimming<br>CS50[4,6] Safety 50% Dimming, 7 hours<br>CM50[4,6] Median 50% Dimming, 8 hours<br>CS30[4,6] Safety 30% Dimming, 7 hours<br>CM30[4,6] Median 30% Dimming, 8 hours<br>BL[1,4,7,18] Bi-level functionality<br>WAP[4,6,18] Wireless Interact (includes SR driver and SR receptacle - do NOT select SRDR) | IMR3[9] Integral with #3 lens<br>IMR7[9] Integral with #7 lens<br>LB Low (7'-10" mounting height) sensor, Black color housing<br>LW Low (7'-10" mounting height) sensor, White color housing<br>HB High (15'-40' mounting height) sensor, Black color housing<br>HW High (15'-40' mounting height) sensor, White color housing | PCB[4,9] Photocontrol Button<br>TLRD5[6,10] Twist Lock Receptacle 5 Pin<br>TLRD7[6,10] Twist Lock Receptacle 7 Pin<br>TLRPC[4,6,10,11] Twist Lock Receptacle w/Photocell | Fusing<br>F1[9] Single (120, 277, 347VAC)<br>F2[9] Double (208, 240, 480VAC)<br>Pole Mount Fusing<br>FP1[9] Single (120, 277, 347VAC)<br>FP2[9] Double (208, 240, 480VAC)<br>FP3[9] Canadian Double Pull (208, 240, 480VAC)<br>Surge Protection (10kA standard)<br>SP2 Increased 20kA<br>BAC[20,21] Meets the requirements of the Buy American Act of 1933 (BAA) | Square Pole Adapter Included in standard product<br>TB[9] Terminal Block<br>RPA[9] Round Pole Adapter (fits to 3"– 3.9" O.D. pole)<br>HIS[9] Internal House Side Shield | Textured<br>BK Black<br>WH White<br>BZ Bronze<br>DGY Dark Gray<br>MGY Medium Gray<br>Customer specified<br>RAL Specify optional color or RAL (ex: RAL7024)<br>CC Custom color (Must supply color chip for required factory quote) |

1. BL=IMR3/7 equipped with out-boarded sensor housing when voltage is HVU (347–480V).
2. Mounts to 4" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Must specify a motion sensor lens.
8. BL must be combined with Motion sensing lens (IMR3 or IMR7.
9. Not available in 347–480V.
10. Must specify input voltage.
11. TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LC.
12. Not available in 480V. Order photocell separately with TLRD5/7.
13. Not available with SF and WS. RPAs provided with black finish standard.
14. HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics.
15. Not available with DD, DCC, FAWS, SRDR, or WAP dimming control options.
16. WAP 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. LCL and RCL not available with 48L-1.2A or 64L-1A.
20. Extended lead times apply. Contact factory for details
21. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA-compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (1) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (2) 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.



GARDCO

Wall Mount
GeoForm
GWM LED wall sconce

**Gardco GeoForm wedge medium LED wall sconce** features a geometric wedge shape that will complement a range of architectural styles. GeoForm wedge medium features specialized, highly efficient precision plus optics which balance low glare with excellent performance. Type 2, 3 and 4 optical distributions are available. Emergency battery backup option provides path-of-egress illumination. Multiple control options, including wireless Interact Pro outdoor, further enhance energy savings. Multiple control options, including wireless Interact Pro outdoor, further enhance energy savings.

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

Ordering guide — **example:** GWM-A07-840-T3M-UNV-FAWS-DG

| Luminaire | Configuration (nom. lumens) | Color Temperature | Distribution | Voltage | Dimming Controls[1] | Electrical | Options | Finish |
|---|---|---|---|---|---|---|---|---|
| GWM GeoForm Wedge Medium | A08 2,500 lumens<br>A07 4,000 lumens<br>A08 5,000 lumens<br>A09 6,000 lumens<br>A10[2] 7,500 lumens<br>A11[2] 8,500 lumens<br>A12[2] 9,500 lumens<br>A13[2] 11,000 lumens<br>A14[2] 12,500 lumens | 830 (80CRI) 3000K<br>840 (80CRI) 4000K<br>740 (70CRI) 4000K<br>750 (70CRI) 5000K | T2M Type 2<br>T3M Type 3<br>T4M Type 4 | 120 120V<br>208 208V<br>240 240V<br>277 277V<br>UNV 120–277V (50/60Hz)<br>347 347V<br>480 480V<br>HVU 347–480V (50/60Hz) | none Leave blank (10kV kA dimming driver standard)<br>DLEA[2] Dimming Leads Externally Accessible (controls by others)<br>DUOC[1,2] Dual Circuit Control (Only available with A06–A09)<br>FAWS[2] Field Adjustable Wattage Selector<br>MW30[2,3] Microwave motion sensor factory set at 30% dimming<br>DynaDimmer: Automatic Profile Dimming Only offered with A08–A13<br>CS50[2,4,6] Safety 50% dimming, 7 hours<br>CM50[2,5,6] Median 50% dimming, 8 hours<br>CS30[2,4,6] Safety 30% dimming, 7 hours<br>CM30[2,5,6] Median 30% dimming, 8 hours | none Leave blank (10kV kA standard)<br>SP2 Surge protector (120, 277, or 347VAC)<br>FS2 Double fuse (208V, 240V, or 480V)<br>FS3 Double fuse Canadian double pull (208V, 240V, or 480V)<br>PCB[6] Photocontrol Button<br>BAC[7] Meets the requirements of the Buy American Act of 1933 (BAA) | none Leave blank<br>EC Emergency battery pack, cold rated (-20°C to 40°C), 120 or 277V only.<br>Meets the requirements of the Buy American Act of 1933 (BAA) | Textured<br>BK Black<br>WH White<br>BZ Bronze<br>DG Dark Gray<br>MG Medium Gray<br>Customer specified<br>RAL Specify optional color or RAL; (ex: OC–LGP or OC–RAL7024)<br>CC Custom Color (must supply color chip, requires factory quote) |

1. Emergency Battery Pack not available.
2. Only one option can be selected from Dimming Controls column.
3. Not available in 480V.
4. Only available from 120–277V, or in UNV.
5. Only available from 120–277V, must specify voltage.
6. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA-compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (1) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (2) 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.
7. Consult Signify to confirm whether specific accessories are BAA-compliant.

**Luminaire Accessories (order separately)[1]**

| | |
|---|---|
| GF-WS-BK | Wall Mounted Box for surface conduit, painted black |
| GF-INV | Inversion Mounting kit (required with inverted mounting) |



LIGHT CUT SHEETS



GHA
GALLO HERBERT ARCHITECTS
5511 NORTHPORT CENTER DRIVE SHELLEY BEACH, FL 33463
954.794.0300 FAX 954.794.0301

AA26001731

SEAL
WILLIAM J. GALLO FL AR0008440
Brian Herbert Digitally signed by Brian Herbert Date: 2024.10.09 15:08:20 -04'00'
BRIAN P. HERBERT FL AR0015474

PROJECT

BONSAL TURN LANE
1200 NW 14TH ST
POMPANO BEACH FL 33069

OWNER

OLDCASTLE APG

REVISIONS

| No. | Description | Date |
|---|---|---|
| B | MINOR SITE SBMTL | 07-19-2023 |
| | MINOR SITE SBMTL | 06-25-2024 |
| | MINOR SITE SBMTL | 09-30-2024 |

PROJECT STATUS
MINOR SITE PLAN SUBMITTAL

DATE
JUNE 25, 2024

PROJECT NUMBER
2123

SCALE
AS SHOWN

DRAWN BY JET
CHECKED BY

DRAWING TITLE
SITE LIGHTING PHOTOMETRIC PLAN

DRAWING NUMBER
SL-2