GARDCO by signify

Site & Area

PureForm

P34 large area light

Gardco PureForm LED area large P34 features a sleek, low profile design and optimal performance. PureForm area large is designed to achieve maximum pole spacing, with lumen output up to 50,000 lumens. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project: **4791 Federal Retail Dev.**

Location: **Pompano Beach**

Cat.No: **P34-128L-1050-NW-G2-AR-4-UNV-X**

Type: **SA**

Lumens: Qty:

Notes:

Ordering guide

example: P34-96L-800-NW-G2-AR-5-120-F1-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
P34 PureForm site and area, 34"	**96L** 96 LEDs (6 modules) **128L** 128 LEDs (8 modules)	**600** 600mA[15] **800** 800mA **900** 900mA **1050** 1050mA **600** 600mA[15] **900** 900mA **1050** 1050mA	**WW-G2** Warm White 3000K, 70CRI Generation 2 **NW-G2** Neutral White 4000K, 70CRI Generation 2 **CW-G2** Cool White 5000K, 70CRI Generation 2 **WY-G2** Warm Yellow2700K, 80 CRI Generation 2 [1] **BW-G2** Balanced White 3500K (80 CRI) Generation 2 [1] **AM-G2** Direct Amber (590nm) Generation 2 [1, 15]	**AR** Arm Mount (standard) [2] The following mounting kits must be ordered separately (See accessories) **SF** Slip Fitter Mount [3] (fits to 2 3/8" O.D. tenon) **WS** Wall mount with surface conduit rear entry permitted **RAM** Retrofit arm mount kit [2]	**Type 2** **2** Type 2 **2-90** Rotated at 90° **2-270** Rotated at 270° **Type 3** **3** Type 3 **3-90** Rotated at 90° **3-270** Rotated at 270° **Type 4** **4** Type 4 **4-90** Rotated at 90° **4-270** Rotated at 270° **Type 5** **5** Type 5 **5W** Type 5W **AFR** Auto Front Row **AFR-90** Auto Front Row, rotated at 90° **AFR-270** Auto Front Row, rotated at 270° **BLC** Back Light Control **BLC-90** Back Light Control rotated at 90° **BLC-270** Back Light Control rotated at 270°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)

Options

Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
DD 0-10V External dimming (by others) [4,5] **DCC** Dual Circuit Control [4,5,6,14] **FAWS** Field Adjustable Wattage Selector [4,5] **LLC** Integral wireless module [4,6,7,19] **BL** Bi-level functionality [4, 19] **DynaDimmer:** Automatic Profile Dimming **CS50** Security 50% Dimming, 7 hours [4, 7, 20] **CM50** Median 50% Dimming, 8 hours [4, 7, 20] **CS30** Security 30% Dimming, 7 hours [4, 7, 20] **CM30** Median 30% Dimming, 8 hours [4, 7, 210]	**IMRI3** Integral with #3 lens [16] **IMRI7** Integral with #7 lens [17]	**PCB** Photocontrol Button [7,8] **TLRD5** Twist Lock Receptacle 5 Pin [9] **TLRD7** Twist Lock Receptacle 7 Pin [9] **TLRPC** Twist Lock Receptacle w/Photocell [8,10]	**Fusing** **F1** Single (120, 277, 347VAC) [8] **F2** Double (208, 240, 480VAC) [8] **F3** Canadian Double Pull (208, 240, 480VAC) [8] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC) [8] **FP2** Double (208, 240, 480VAC) [8] **FP3** Canadian Double Pull (208, 240, 480VAC) [8] **Surge Protection** (10kA standard) **SP2** Increased 20kA	Square Pole Adapter included as standard **TB** Terminal Block [11] **RPA** Round Pole Adapter (fits to 3"- 3.9" O.D. pole) [12] **HIS** Internal Housing Side Shield [13]	**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)

1. Extended lead times apply. Contact factory for details.
2. Mounts to a 4-5" 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. Not available in 347 or 480V.
8. Must specify input voltage.
9. Dimming will not be connected to NEMA receptacle if ordering with other control options.
10. Not available in 480V. Order photocell separately with TLRD5/7.
11. TB not available with DCC.
12. Not available with SF and WS. RPAs provided with black finish standard.
13. HIS not available with Type 5, 5W, and BLC optics.
14. Not available with 96L (6 modules).
15. Amber LEDs (AM) available only in 600mA.
16. Not available with DD, DCC, and FAWS dimming control options.
17. Not available with DD, DCC, FAWS and LLC dimming control options.
18. Not available with DD, DCC, FAWS, LLC, and BL dimming control options (DynaDimmer required).
19. Must specify a motion sensor lens.
20. Not available with 128L 1050mA.

LFI INNOVATION AWARDS

ida DARK SKY APPROVED 3000K only

DLC PREMIUM

cULus E723-12000049

DRC 02/21/2024

P34 PureForm LED large

Area light

PureForm P34 Accessories[2] (ordered separately, field installed)

Controls Accessories

BL Optional Remote Programming Tool
FSIR-100

Shielding Accessories

House Side shield

Standard optic orientation:

HIS-96-H[1] Internal House Side Shield for 96 LEDs (6 modules)

HIS-128-H[1] Internal House Side Shield for 128 LEDs (8 modules)

Optic at 90 or 270 orientation:

HIS-96-V[1] Internal House Side Shield for 96 LEDs (6 modules)

HIS-128-V[1] Internal House Side Shield for 128 LEDs (8 modules)

Mounting Accessories

PureForm PTF2 (pole top fitter fits 2 3/8-2 1/2" OD x 4" depth tenon)

PTF2-P26/34-1-90-(F)	1 luminaire at 90°
PTF2-P26/34-2-90-(F)	2 luminaires at 90°
PTF2-P26/34-2-180-(F)	2 luminaires at 180°
PTF2-P26/34-3-90-(F)	3 luminaires at 90°
PTF2-P26/34-4-90-(F)	4 luminaires at 90°
PTF2-P26/34-3-120-(F)	3 luminaires at 120°

PureForm PTF3 (pole top fitter fits 3-3 1/2" OD x 6" depth tenon)

PTF3-P26/34-1-90-(F)	1 luminaire at 90°
PTF3-P26/34-2-90-(F)	2 luminaires at 90°
PTF3-P26/34-2-180-(F)	2 luminaires at 180°
PTF3-P26/34-3-90-(F)	3 luminaires at 90°
PTF3-P26/34-4-90-(F)	4 luminaires at 90°
PTF3-P26/34-3-120-(F)	3 luminaires at 120°

PureForm PTF4 (pole top fitter fits 3 1/2-4" OD x 6" depth tenon)

PTF4-P26/34-1-90-(F)	1 luminaire at 90°
PTF4-P26/34-2-90-(F)	2 luminaires at 90°
PTF4-P26/34-2-180-(F)	2 luminaires at 180°
PTF4-P26/34-3-90-(F)	3 luminaires at 90°
PTF4-P26/34-4-90-(F)	4 luminaires at 90°
PTF4-P26/34-3-120-(F)	3 luminaires at 120°

P34-SF-G2-(F)	Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
P34-RAM-G2-(F)	Retrofit Arm mount kit
P34-WS-G2-(F)	Wall mount with surface conduit rear entry permitted
P34-BD-G2	Bird deterrent

(F) = Specify finish

1. HIS not available with Type 5, 5W, and BLC optics
2. Consult Signify to confirm whether specific accessories are BAA-compliant.

P34 PureForm LED large

Area light

LED Wattage and Lumen Values – 3000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-WW-G2-x	96	800	3000	232	26591	B3-U0-G3	115	26039	B3-U0-G4	112	26627	B3-U0-G4	115
P34-96L-900-WW-G2-x	96	900	3000	263	29373	B4-U0-G3	112	28763	B3-U0-G4	110	29412	B3-U0-G4	112
P34-96L-1050-WW-G2-x	96	1050	3000	310	32791	B4-U0-G4	106	32110	B3-U0-G5	104	32835	B3-U0-G5	106
P34-128L-900-WW-G2-x	128	900	3000	350	38325	B4-U0-G4	110	37530	B3-U0-G5	107	38377	B3-U0-G5	110
P34-128L-1050-WW-G2-x	128	1050	3000	414	43056	B4-U0-G4	104	42162	B4-U0-G5	102	43114	B3-U0-G5	104

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-WW-G2-x	96	800	3000	232	27785	B5-U0-G3	120	27119	B5-U0-G4	117	27643	B4-U0-G3	119	20034	B1-U0-G4	86
P34-96L-900-WW-G2-x	96	900	3000	263	30692	B5-U0-G4	117	29956	B5-U0-G4	114	30535	B4-U0-G3	116	22130	B1-U0-G4	84
P34-96L-1050-WW-G2-x	96	1050	3000	310	34264	B5-U0-G4	111	33442	B5-U0-G4	108	34089	B4-U0-G3	110	24706	B1-U0-G4	80
P34-128L-900-WW-G2-x	128	900	3000	350	40047	B5-U0-G4	115	39087	B5-U0-G4	112	39842	B4-U0-G4	114	28876	B1-U0-G4	83
P34-128L-1050-WW-G2-x	128	1050	3000	414	44990	B5-U0-G4	109	43911	B5-U0-G5	106	44760	B4-U0-G4	108	32440	B1-U0-G5	78

LED Wattage and Lumen Values – 4000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-NW-G2-x	96	800	4000	232	29545	B4-U0-G3	128	28932	B3-U0-G4	125	29585	B3-U0-G4	128
P34-96L-900-NW-G2-x	96	900	4000	263	32636	B4-U0-G4	124	31959	B3-U0-G4	122	32680	B3-U0-G5	124
P34-96L-1050-NW-G2-x	96	1050	4000	310	36434	B4-U0-G4	118	35678	B3-U0-G5	115	36483	B3-U0-G5	118
P34-128L-900-NW-G2-x	128	900	4000	350	42584	B4-U0-G4	122	41700	B4-U0-G5	119	42641	B3-U0-G5	122
P34-128L-1050-NW-G2-x	128	1050	4000	414	47840	B4-U0-G4	115	46847	B4-U0-G5	113	47904	B4-U0-G5	116

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-NW-G2-x	96	800	4000	232	30872	B5-U0-G4	133	30131	B5-U0-G4	130	30715	B4-U0-G3	133	22261	B1-U0-G4	96
P34-96L-900-NW-G2-x	96	900	4000	263	34102	B5-U0-G4	130	33284	B5-U0-G4	127	33928	B4-U0-G3	129	24589	B1-U0-G4	94
P34-96L-1050-NW-G2-x	96	1050	4000	310	38071	B5-U0-G4	123	37157	B5-U0-G4	120	37877	B4-U0-G3	122	27451	B1-U0-G4	89
P34-128L-900-NW-G2-x	128	900	4000	350	44497	B5-U0-G4	127	43429	B5-U0-G5	124	44269	B4-U0-G4	127	32084	B1-U0-G5	92
P34-128L-1050-NW-G2-x	128	1050	4000	414	49989	B5-U0-G5	121	48789	B5-U0-G5	118	49733	B4-U0-G4	120	36044	B1-U0-G5	87

LED Wattage and Lumen Values – 5000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-CW-G2-x	96	800	5000	232	28659	B4-U0-G3	124	28064	B3-U0-G4	121	28697	B3-U0-G4	124
P34-96L-900-CW-G2-x	96	900	5000	263	31657	B4-U0-G3	121	31000	B3-U0-G4	118	31700	B3-U0-G5	121
P34-96L-1050-CW-G2-x	96	1050	5000	310	35341	B4-U0-G4	114	34608	B3-U0-G5	112	35389	B3-U0-G5	114
P34-128L-900-CW-G2-x	128	900	5000	350	41306	B4-U0-G4	118	40449	B3-U0-G5	116	41362	B3-U0-G5	118
P34-128L-1050-CW-G2-x	128	1050	5000	414	46405	B4-U0-G4	112	45441	B4-U0-G5	110	46467	B4-U0-G5	112

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-CW-G2-x	96	800	5000	232	29946	B5-U0-G4	129	29228	B5-U0-G4	126	29793	B4-U0-G3	129	21593	B1-U0-G4	93
P34-96L-900-CW-G2-x	96	900	5000	263	33079	B5-U0-G4	126	32286	B5-U0-G4	123	32910	B4-U0-G3	125	23852	B1-U0-G4	91
P34-96L-1050-CW-G2-x	96	1050	5000	310	36929	B5-U0-G4	119	36043	B5-U0-G4	116	36740	B4-U0-G3	118	26628	B1-U0-G4	86
P34-128L-900-CW-G2-x	128	900	5000	350	43161	B5-U0-G4	123	42127	B5-U0-G5	120	42941	B4-U0-G4	123	31122	B1-U0-G5	89
P34-128L-1050-CW-G2-x	128	1050	5000	414	48489	B5-U0-G5	117	47327	B5-U0-G5	114	48241	B4-U0-G4	116	34963	B1-U0-G5	84

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.

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 initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

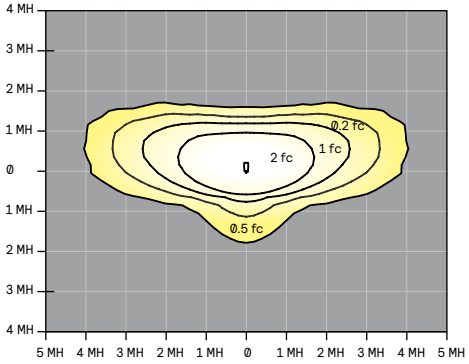
Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance [illegible] at 60,0[illegible] hrs
25°C	up to 1050 mA	>100,000 hours	>54,000 hours	>89%

P34 PureForm LED large

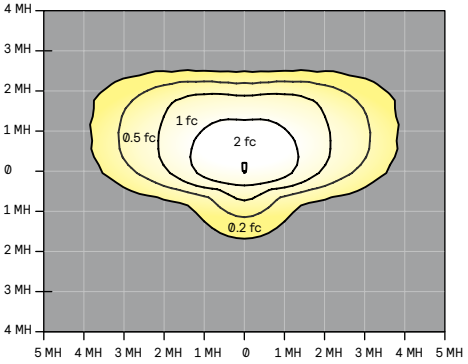
Area light

Optical Distributions

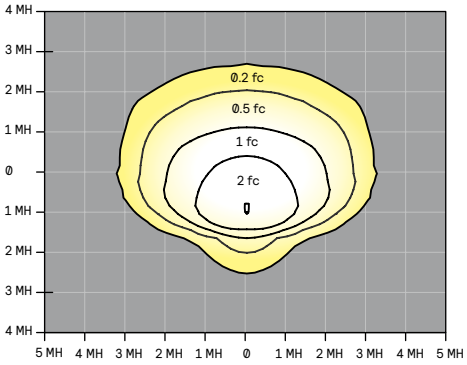
Based on configuration P34-128L-1050-NW-G2 (414W) mounted at 40ft.



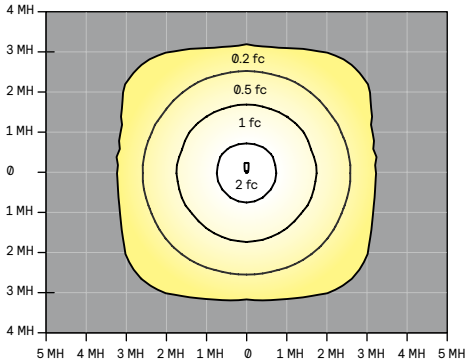
Type 2



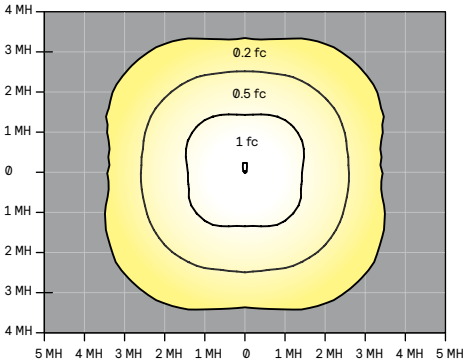
Type 3



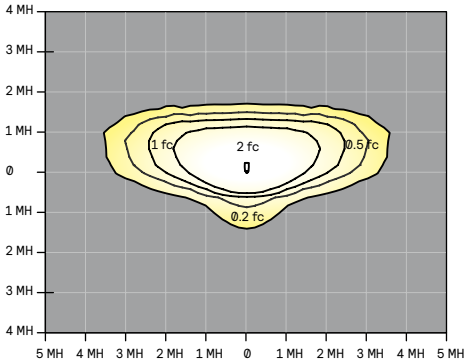
Type 4



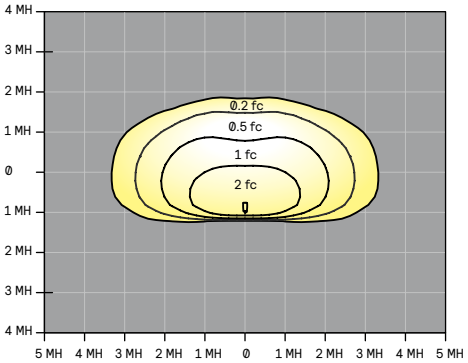
Type 5



Type 5W



AFR



BLC

DRC

PZ23-12000049
02/21/2024

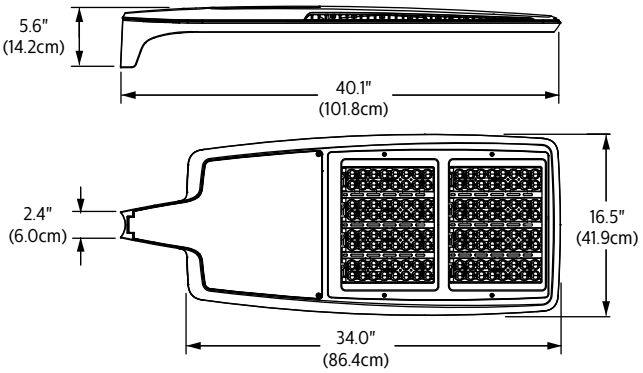
P34 PureForm LED large

Area light

Dimensions

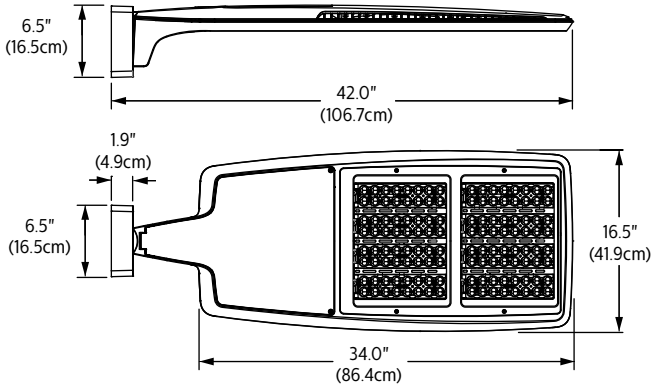
Standard Arm (**AR**)

Weight: 35 Lbs (15.8 Kg) EPA: 0.30ft² (.028m²)



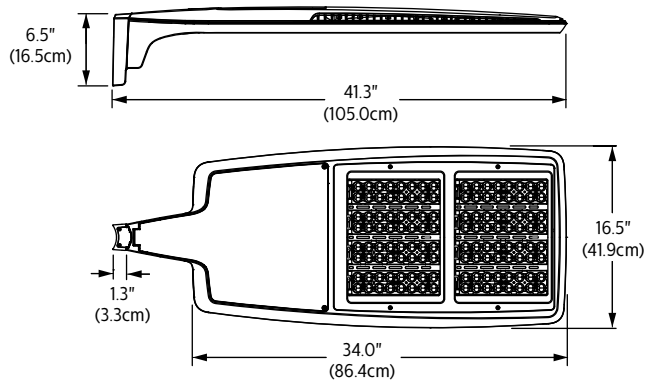
Wall (**WS**)

Weight: 37 Lbs. (16.8Kg) EPA: 0.35ft² (.033m²)



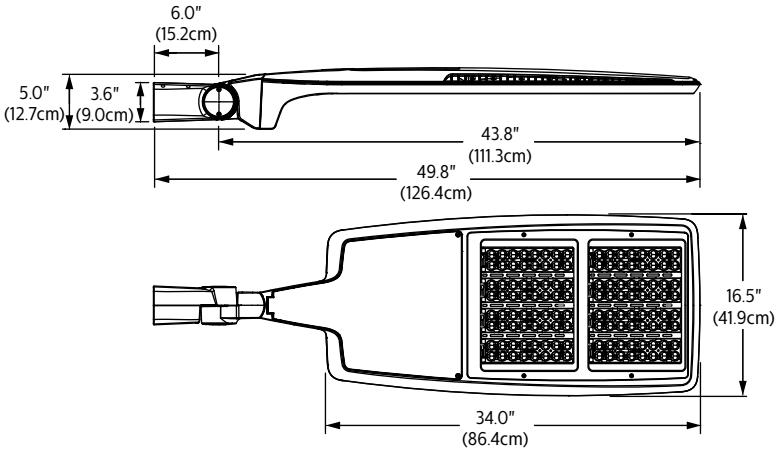
Retrofit Arm (**RAM**)

Weight: 39 Lbs (17.7 Kg) EPA: 0.33ft² (.031m²)

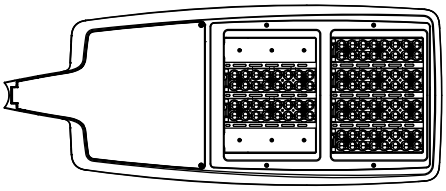


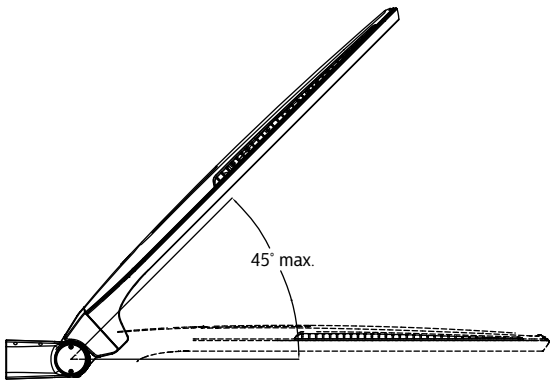
Slip fitter (**SF**)

Weight: 40 Lbs (18.1 Kg) EPA: 0.43ft² (.040m²)

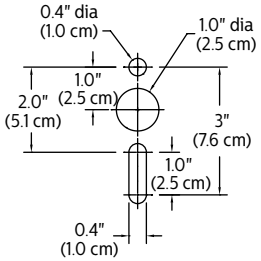


6 module configuration

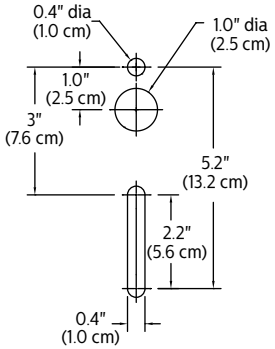




Standard Arm **(AR)** drill pattern



Retrofit arm **(RAM)** drill pattern



DRC

PZ23-12000049
02/21/2024

P34 PureForm LED large

Area light

Specifications

Housing

Two-piece sealed enclosure with main part of the housing designed as the structural and heat sink frame enclosed by cover to give its unique form. It also includes heat sinks, integral arm and separate, self-retained hinged, one-piece die cast door frame. All die-cast parts made of low copper die cast aluminum alloy for a high resistance to corrosion. The sleek profile with optimized surface area allows housing to provide excellent convection heat transfer with minimum use of heat fins, giving the freedom to have a clean minimalist aesthetic design. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 1.5G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration to 1.5G acceleration 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 6 and 8 modules or 96 and 128 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/- 125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. Also available in 2700K, 3500K, and Direct Amber with extended lead times. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 129 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. PureForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, PureForm 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.

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%

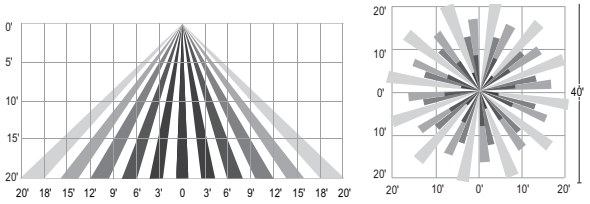
Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profilesprovide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with 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 2hours before depending of the duration of dimming. Cannot be used with other dimming control options.

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). 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 site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens (LLC-IMRI3) for 8-25' mounting heights.

LLC-IMRI3 Luminaire with #3 lens



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 requir[illegible]. This can [illegible] alone with FSIR-100 Wireless Remote Programming Tool ([illegible]ontact [illegible]echnical Su[illegible]por for details).

P34 PureForm LED large

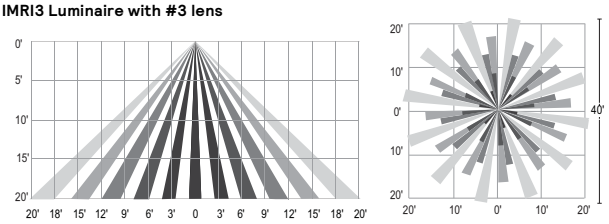
Area light

Specifications (cont'd)

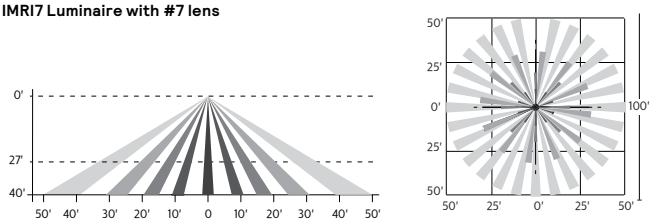
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response 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 with #3 lens



IMRI7 Luminaire with #7 lens



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 Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included. TLRPC is shipped standard with 5 pin.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS 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.

Listings

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 PureForm P34 configurations are qualified under Premium DesignLights Consortium® category. 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. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. 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.

Warranty

PureForm 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.

Signify North America Corporation
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone 855-486-2216

Signify Canada Ltd
281 Hillmount Road,
Markham, ON Canada L6C 2S3
Telephone 800-668-9008

GARDCO by signify

Site & Area

PureForm

P34 large area light

Gardco PureForm LED area large P34 features a sleek, low profile design and optimal performance. PureForm area large is designed to achieve maximum pole spacing, with lumen output up to 50,000 lumens. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project: **4791 Federal Retail Dev.**

Location: **Pompano Beach**

Cat.No: **P34-128L-1050-NW-G2-AR-4-UNV-X**

Type: **SA**

Lumens: Qty:

Notes:

Ordering guide

example: P34-96L-800-NW-G2-AR-5-120-F1-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
P34 PureForm site and area, 34"	**96L** 96 LEDs (6 modules) **128L** 128 LEDs (8 modules)	**600** 600mA[15] **800** 800mA **900** 900mA **1050** 1050mA **600** 600mA[15] **900** 900mA **1050** 1050mA	**WW-G2** Warm White 3000K, 70CRI Generation 2 **NW-G2** Neutral White 4000K, 70CRI Generation 2 **CW-G2** Cool White 5000K, 70CRI Generation 2 **WY-G2** Warm Yellow2700K, 80 CRI Generation 2 [1] **BW-G2** Balanced White 3500K (80 CRI) Generation 2 [1] **AM-G2** Direct Amber (590nm) Generation 2 [1, 15]	**AR** Arm Mount (standard) [2] The following mounting kits must be ordered separately (See accessories) **SF** Slip Fitter Mount [3] (fits to 2 3/8" O.D. tenon) **WS** Wall mount with surface conduit rear entry permitted **RAM** Retrofit arm mount kit [2]	**Type 2** **2** Type 2 **2-90** Rotated at 90° **2-270** Rotated at 270° **Type 3** **3** Type 3 **3-90** Rotated at 90° **3-270** Rotated at 270° **Type 4** **4** Type 4 **4-90** Rotated at 90° **4-270** Rotated at 270° **Type 5** **5** Type 5 **5W** Type 5W **AFR** Auto Front Row **AFR-90** Auto Front Row, rotated at 90° **AFR-270** Auto Front Row, rotated at 270° **BLC** Back Light Control **BLC-90** Back Light Control rotated at 90° **BLC-270** Back Light Control rotated at 270°	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)

Options

Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
DD 0-10V External dimming (by others) [4,5] **DCC** Dual Circuit Control [4,5,6,14] **FAWS** Field Adjustable Wattage Selector [4,5] **LLC** Integral wireless module [4,6,7,19] **BL** Bi-level functionality [4, 19] **DynaDimmer:** Automatic Profile Dimming **CS50** Security 50% Dimming, 7 hours [4, 7, 20] **CM50** Median 50% Dimming, 8 hours [4, 7, 20] **CS30** Security 30% Dimming, 7 hours [4, 7, 20] **CM30** Median 30% Dimming, 8 hours [4, 7, 210]	**IMRI3** Integral with #3 lens [16] **IMRI7** Integral with #7 lens [17]	**PCB** Photocontrol Button [7,8] **TLRD5** Twist Lock Receptacle 5 Pin [9] **TLRD7** Twist Lock Receptacle 7 Pin [9] **TLRPC** Twist Lock Receptacle w/Photocell [8,10]	**Fusing** **F1** Single (120, 277, 347VAC) [8] **F2** Double (208, 240, 480VAC) [8] **F3** Canadian Double Pull (208, 240, 480VAC) [8] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC) [8] **FP2** Double (208, 240, 480VAC) [8] **FP3** Canadian Double Pull (208, 240, 480VAC) [8] **Surge Protection** (10kA standard) **SP2** Increased 20kA	Square Pole Adapter included as standard **TB** Terminal Block [11] **RPA** Round Pole Adapter (fits to 3"- 3.9" O.D. pole) [12] **HIS** Internal Housing Side Shield [13]	**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)

1. Extended lead times apply. Contact factory for details.
2. Mounts to a 4-5" 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. Not available in 347 or 480V.
8. Must specify input voltage.
9. Dimming will not be connected to NEMA receptacle if ordering with other control options.
10. Not available in 480V. Order photocell separately with TLRD5/7.
11. TB not available with DCC.
12. Not available with SF and WS. RPAs provided with black finish standard.
13. HIS not available with Type 5, 5W, and BLC optics.
14. Not available with 96L (6 modules).
15. Amber LEDs (AM) available only in 600mA.
16. Not available with DD, DCC, and FAWS dimming control options.
17. Not available with DD, DCC, FAWS and LLC dimming control options.
18. Not available with DD, DCC, FAWS, LLC, and BL dimming control options (DynaDimmer required).
19. Must specify a motion sensor lens.
20. Not available with 128L 1050mA.

LFI INNOVATION AWARDS

ida DARK SKY APPROVED 3000K only

DLC PREMIUM

cULus E723-12000049

DRC 02/21/2024

P34 PureForm LED large

Area light

PureForm P34 Accessories[2] (ordered separately, field installed)

Controls Accessories

BL Optional Remote Programming Tool
FSIR-100

Shielding Accessories

House Side shield

Standard optic orientation:

HIS-96-H[1] Internal House Side Shield for 96 LEDs (6 modules)

HIS-128-H[1] Internal House Side Shield for 128 LEDs (8 modules)

Optic at 90 or 270 orientation:

HIS-96-V[1] Internal House Side Shield for 96 LEDs (6 modules)

HIS-128-V[1] Internal House Side Shield for 128 LEDs (8 modules)

Mounting Accessories

PureForm PTF2 (pole top fitter fits 2 3/8-2 1/2" OD x 4" depth tenon)

PTF2-P26/34-1-90-(F)	1 luminaire at 90°
PTF2-P26/34-2-90-(F)	2 luminaires at 90°
PTF2-P26/34-2-180-(F)	2 luminaires at 180°
PTF2-P26/34-3-90-(F)	3 luminaires at 90°
PTF2-P26/34-4-90-(F)	4 luminaires at 90°
PTF2-P26/34-3-120-(F)	3 luminaires at 120°

PureForm PTF3 (pole top fitter fits 3-3 1/2" OD x 6" depth tenon)

PTF3-P26/34-1-90-(F)	1 luminaire at 90°
PTF3-P26/34-2-90-(F)	2 luminaires at 90°
PTF3-P26/34-2-180-(F)	2 luminaires at 180°
PTF3-P26/34-3-90-(F)	3 luminaires at 90°
PTF3-P26/34-4-90-(F)	4 luminaires at 90°
PTF3-P26/34-3-120-(F)	3 luminaires at 120°

PureForm PTF4 (pole top fitter fits 3 1/2-4" OD x 6" depth tenon)

PTF4-P26/34-1-90-(F)	1 luminaire at 90°
PTF4-P26/34-2-90-(F)	2 luminaires at 90°
PTF4-P26/34-2-180-(F)	2 luminaires at 180°
PTF4-P26/34-3-90-(F)	3 luminaires at 90°
PTF4-P26/34-4-90-(F)	4 luminaires at 90°
PTF4-P26/34-3-120-(F)	3 luminaires at 120°

P34-SF-G2-(F)	Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
P34-RAM-G2-(F)	Retrofit Arm mount kit
P34-WS-G2-(F)	Wall mount with surface conduit rear entry permitted
P34-BD-G2	Bird deterrent

(F) = Specify finish

1. HIS not available with Type 5, 5W, and BLC optics
2. Consult Signify to confirm whether specific accessories are BAA-compliant.

P34 PureForm LED large

Area light

LED Wattage and Lumen Values – 3000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-WW-G2-x	96	800	3000	232	26591	B3-U0-G3	115	26039	B3-U0-G4	112	26627	B3-U0-G4	115
P34-96L-900-WW-G2-x	96	900	3000	263	29373	B4-U0-G3	112	28763	B3-U0-G4	110	29412	B3-U0-G4	112
P34-96L-1050-WW-G2-x	96	1050	3000	310	32791	B4-U0-G4	106	32110	B3-U0-G5	104	32835	B3-U0-G5	106
P34-128L-900-WW-G2-x	128	900	3000	350	38325	B4-U0-G4	110	37530	B3-U0-G5	107	38377	B3-U0-G5	110
P34-128L-1050-WW-G2-x	128	1050	3000	414	43056	B4-U0-G4	104	42162	B4-U0-G5	102	43114	B3-U0-G5	104

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-WW-G2-x	96	800	3000	232	27785	B5-U0-G3	120	27119	B5-U0-G4	117	27643	B4-U0-G3	119	20034	B1-U0-G4	86
P34-96L-900-WW-G2-x	96	900	3000	263	30692	B5-U0-G4	117	29956	B5-U0-G4	114	30535	B4-U0-G3	116	22130	B1-U0-G4	84
P34-96L-1050-WW-G2-x	96	1050	3000	310	34264	B5-U0-G4	111	33442	B5-U0-G4	108	34089	B4-U0-G3	110	24706	B1-U0-G4	80
P34-128L-900-WW-G2-x	128	900	3000	350	40047	B5-U0-G4	115	39087	B5-U0-G4	112	39842	B4-U0-G4	114	28876	B1-U0-G4	83
P34-128L-1050-WW-G2-x	128	1050	3000	414	44990	B5-U0-G4	109	43911	B5-U0-G5	106	44760	B4-U0-G4	108	32440	B1-U0-G5	78

LED Wattage and Lumen Values – 4000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-NW-G2-x	96	800	4000	232	29545	B4-U0-G3	128	28932	B3-U0-G4	125	29585	B3-U0-G4	128
P34-96L-900-NW-G2-x	96	900	4000	263	32636	B4-U0-G4	124	31959	B3-U0-G4	122	32680	B3-U0-G5	124
P34-96L-1050-NW-G2-x	96	1050	4000	310	36434	B4-U0-G4	118	35678	B3-U0-G5	115	36483	B3-U0-G5	118
P34-128L-900-NW-G2-x	128	900	4000	350	42584	B4-U0-G4	122	41700	B4-U0-G5	119	42641	B3-U0-G5	122
P34-128L-1050-NW-G2-x	128	1050	4000	414	47840	B4-U0-G4	115	46847	B4-U0-G5	113	47904	B4-U0-G5	116

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-NW-G2-x	96	800	4000	232	30872	B5-U0-G4	133	30131	B5-U0-G4	130	30715	B4-U0-G3	133	22261	B1-U0-G4	96
P34-96L-900-NW-G2-x	96	900	4000	263	34102	B5-U0-G4	130	33284	B5-U0-G4	127	33928	B4-U0-G3	129	24589	B1-U0-G4	94
P34-96L-1050-NW-G2-x	96	1050	4000	310	38071	B5-U0-G4	123	37157	B5-U0-G4	120	37877	B4-U0-G3	122	27451	B1-U0-G4	89
P34-128L-900-NW-G2-x	128	900	4000	350	44497	B5-U0-G4	127	43429	B5-U0-G5	124	44269	B4-U0-G4	127	32084	B1-U0-G5	92
P34-128L-1050-NW-G2-x	128	1050	4000	414	49989	B5-U0-G5	121	48789	B5-U0-G5	118	49733	B4-U0-G4	120	36044	B1-U0-G5	87

LED Wattage and Lumen Values – 5000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-CW-G2-x	96	800	5000	232	28659	B4-U0-G3	124	28064	B3-U0-G4	121	28697	B3-U0-G4	124
P34-96L-900-CW-G2-x	96	900	5000	263	31657	B4-U0-G3	121	31000	B3-U0-G4	118	31700	B3-U0-G5	121
P34-96L-1050-CW-G2-x	96	1050	5000	310	35341	B4-U0-G4	114	34608	B3-U0-G5	112	35389	B3-U0-G5	114
P34-128L-900-CW-G2-x	128	900	5000	350	41306	B4-U0-G4	118	40449	B3-U0-G5	116	41362	B3-U0-G5	118
P34-128L-1050-CW-G2-x	128	1050	5000	414	46405	B4-U0-G4	112	45441	B4-U0-G5	110	46467	B4-U0-G5	112

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P34-96L-800-CW-G2-x	96	800	5000	232	29946	B5-U0-G4	129	29228	B5-U0-G4	126	29793	B4-U0-G3	129	21593	B1-U0-G4	93
P34-96L-900-CW-G2-x	96	900	5000	263	33079	B5-U0-G4	126	32286	B5-U0-G4	123	32910	B4-U0-G3	125	23852	B1-U0-G4	91
P34-96L-1050-CW-G2-x	96	1050	5000	310	36929	B5-U0-G4	119	36043	B5-U0-G4	116	36740	B4-U0-G3	118	26628	B1-U0-G4	86
P34-128L-900-CW-G2-x	128	900	5000	350	43161	B5-U0-G4	123	42127	B5-U0-G5	120	42941	B4-U0-G4	123	31122	B1-U0-G5	89
P34-128L-1050-CW-G2-x	128	1050	5000	414	48489	B5-U0-G5	117	47327	B5-U0-G5	114	48241	B4-U0-G4	116	34963	B1-U0-G5	84

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.

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 initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

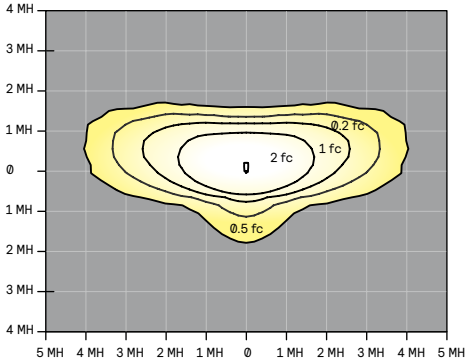
Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance [illegible] at 60,0[illegible] hrs
25°C	up to 1050 mA	>100,000 hours	>54,000 hours	>89%

P34 PureForm LED large

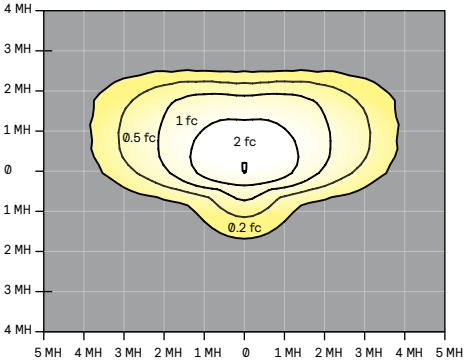
Area light

Optical Distributions

Based on configuration P34-128L-1050-NW-G2 (414W) mounted at 40ft.



Type 2



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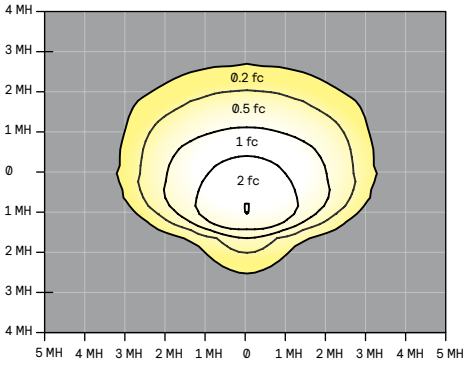
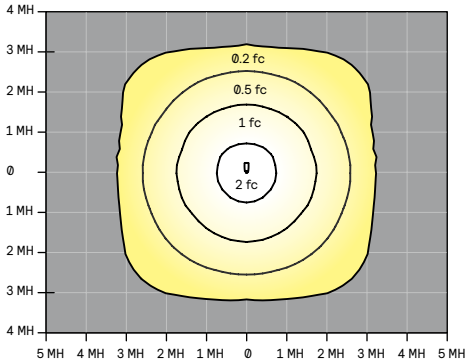
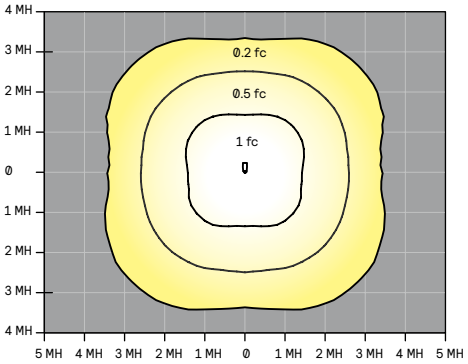


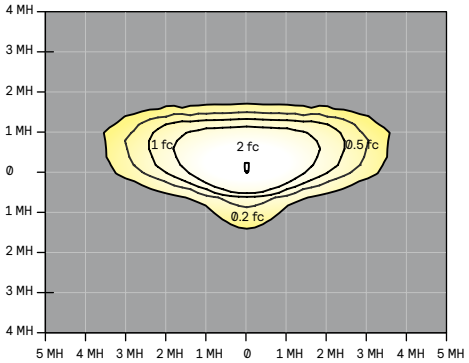
Type 4



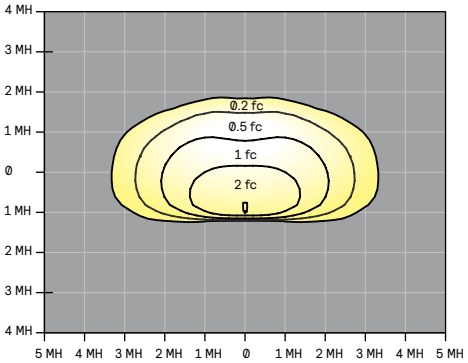
Type 5



Type 5W



AFR



BLC

DRC

PZ23-12000049
02/21/2024

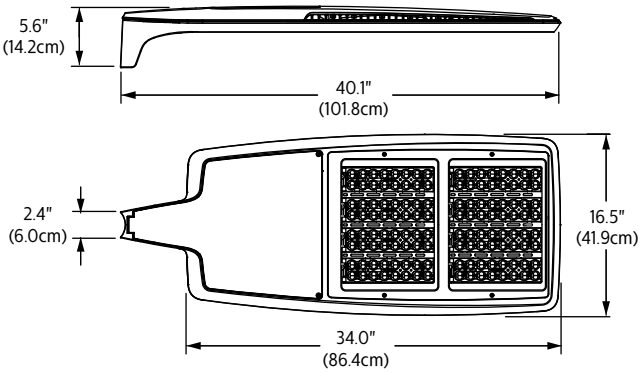
P34 PureForm LED large

Area light

Dimensions

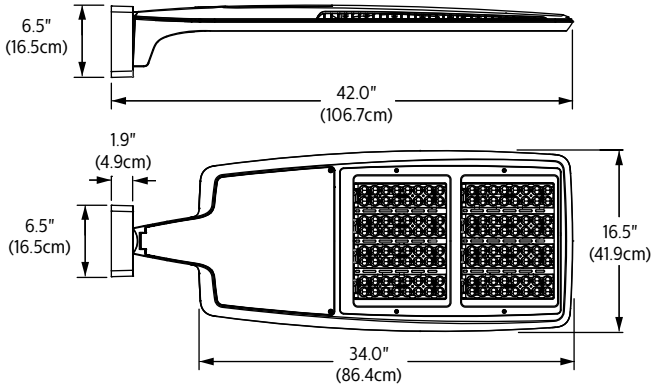
Standard Arm (**AR**)

Weight: 35 Lbs (15.8 Kg) EPA: 0.30ft² (.028m²)



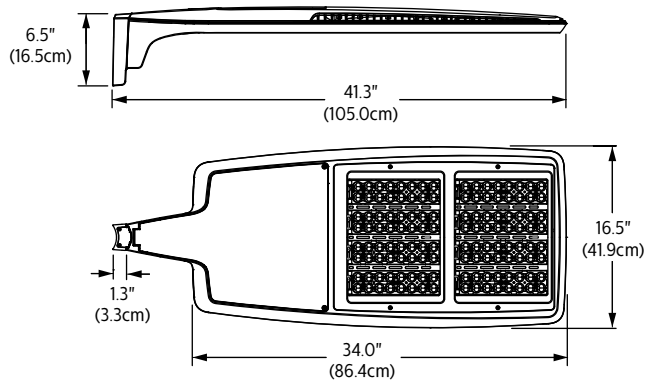
Wall (**WS**)

Weight: 37 Lbs. (16.8Kg) EPA: 0.35ft² (.033m²)



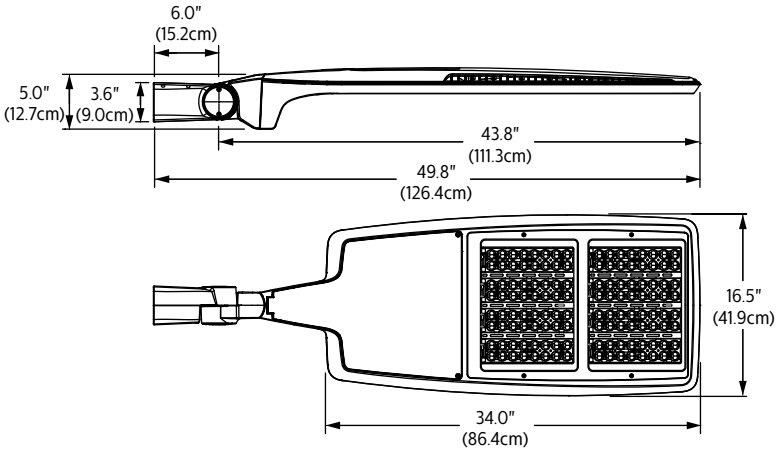
Retrofit Arm (**RAM**)

Weight: 39 Lbs (17.7 Kg) EPA: 0.33ft² (.031m²)

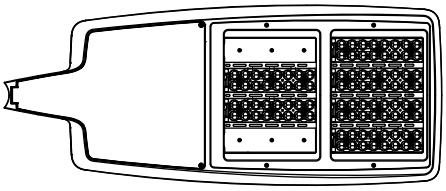


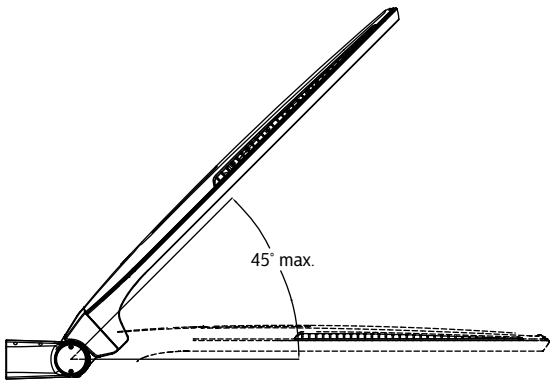
Slip fitter (**SF**)

Weight: 40 Lbs (18.1 Kg) EPA: 0.43ft² (.040m²)

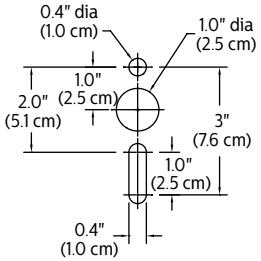


6 module configuration

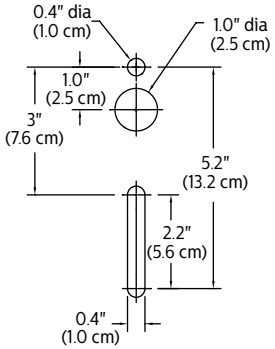




Standard Arm **(AR)** drill pattern



Retrofit arm **(RAM)** drill pattern



DRC

PZ23-12000049
02/21/2024

P34 PureForm LED large

Area light

Specifications

Housing

Two-piece sealed enclosure with main part of the housing designed as the structural and heat sink frame enclosed by cover to give its unique form. It also includes heat sinks, integral arm and separate, self-retained hinged, one-piece die cast door frame. All die-cast parts made of low copper die cast aluminum alloy for a high resistance to corrosion. The sleek profile with optimized surface area allows housing to provide excellent convection heat transfer with minimum use of heat fins, giving the freedom to have a clean minimalist aesthetic design. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 1.5G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration to 1.5G acceleration 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 6 and 8 modules or 96 and 128 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/- 125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. Also available in 2700K, 3500K, and Direct Amber with extended lead times. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 129 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. PureForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, PureForm 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.

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%

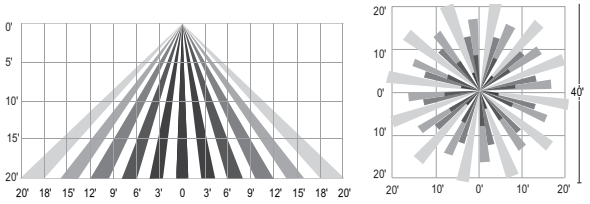
Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profilesprovide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with 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 2hours before depending of the duration of dimming. Cannot be used with other dimming control options.

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). 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 site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens (LLC-IMRI3) for 8-25' mounting heights.

LLC-IMRI3 Luminaire with #3 lens



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 requir[illegible]. This can [illegible] alone with FSIR-100 Wireless Remote Programming Tool ([illegible]ontact [illegible]echnical Su[illegible]por for details).

P34 PureForm LED large

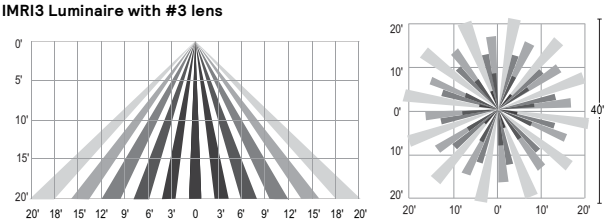
Area light

Specifications (cont'd)

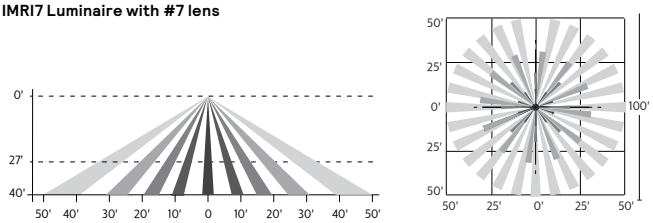
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response 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 with #3 lens



IMRI7 Luminaire with #7 lens



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 Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included. TLRPC is shipped standard with 5 pin.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS 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.

Listings

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 PureForm P34 configurations are qualified under Premium DesignLights Consortium® category. 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. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. 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.

Warranty

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

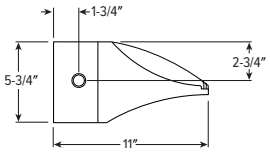
Buy American Act of 1933 (BAA):

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.

Signify North America Corporation
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone 855-486-2216

Signify Canada Ltd
281 Hillmount Road,
Markham, ON Canada L6C 2S3
Telephone 800-668-9008

WPCS LED
Full Cutoff Wall Pack – Small



CATALOG #: WPCS-L30/840-BZ-OCC-S23-DIM-UNV

TYPE: W

PROJECT: 4791 Federal Retail Development

FEATURES

- Full cutoff wall luminaire places light where it's needed with minimal glare
- Energy-saving alternative to traditional HID fixtures
- Provides effective security lighting
- 12′ – 25′ mounting heights
- Optional energy-saving photocells and occupancy sensor available
- Includes easy-hang wall mounting bracket with built-in level for simplified installation
- Maximize energy savings with efficacies as high as 122 lm/W

SPECIFICATIONS

- HOUSING – Die-cast aluminum enclosure. Nickel-plated stainless steel hardware.
- THERMAL – Integral heat sink. Operating temperature -40°C to 50°C.
- OPTICAL – Full cutoff front frame. Type IV wide forward throw distribution.
- LENS – Clear one-piece molded polycarbonate lens.
- LED DRIVER – 0-10V integral dimming driver.
- ELECTRICAL – 120-277V input range; 50-60Hz; power factor >0.90; THD<20%. 6kV standard surge protection. L70 = 646,000 hours at 25°C.
- FINISH – Textured bronze powder coat over a chromate conversion coating.
- MOUNTING – Surface mounts directly over a 4″ recessed outlet box.
- LISTINGS – CSA listed for wet locations, ANSI/UL 1598, 8750; IP66 sealed LED compartment.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: WPCS - L30/840 - BZ - OPTIONS - DIM - UNV

ORDERING INFO

SERIES	LUMENS [1]	CRI	CCT	FINISH
WPCS	**L30** 3,000lm **L44** 4,400lm **L90** 9,000lm	**8** 80	**40** 4000K **50** 5000K	**BZ** Bronze

OPTIONS [2]	
SF	Single fuse
DF	Double fuse
SP10	10kV surge protection [3]
R3	3-Pin twist lock photocell receptacle
R7	7-pin twist lock photocell receptacle [4]
PC	Photocell, 120-277V
OCC-S23	Internal microwave occupancy sensor with dimming [5]
EM/6W	6-watt emergency battery [6]
AT	Aluminum trim plate [7]

DRIVER	VOLTAGE
DIM Dimming driver [8]	**UNV** 120-277V

NOTES

1. Lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. Fixtures ordered with factory-installed photocell or motion sensor controls are internally wired for switching and/or 1-10V dimming within the housing.
3. In addition to 6kV standard surge protection, total of 16kV.
4. ANSI C136.41-2013
5. 120-277V only, 50/60Hz.
6. 90 minutes emergency operation; ambient operating temperature range: 10°C to 50°C. L30 and L44 only
7. Ordered and shipped separately, field installed. For use in retrofit applications. Bronze powder coat finish.
8. Prewired for 0-10V low voltage applications.

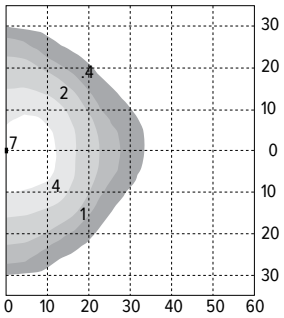
WPCS LED
Full Cutoff Wall Pack – Small

FIXTURE PERFORMANCE DATA

	COLOR TEMPERATURE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L30	4000	3147	28	112.4
	5000	3420		122.1
L44	4000	4454	42	106.0
	5000	4599		109.5
L90	4000	9155	84	109.0
	5000	9267		110.3

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%

FOOTCANDLE DISTRIBUTIONS



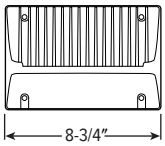
Footcandle calculations based on standard building reflectance of .10 with a ground reflectance of .0 and a light loss factor of .90.

Fixture installed at 10′ mounting height.

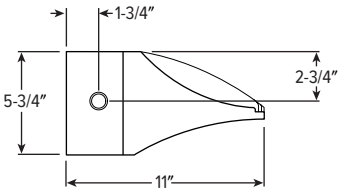
- Efficacy: 106 lm/W
- Flux: 4454 lm
- CRI: 80
- CCT: 4000K
- BUG Ratings: B1-U0-G1

FIXTURE DETAILS

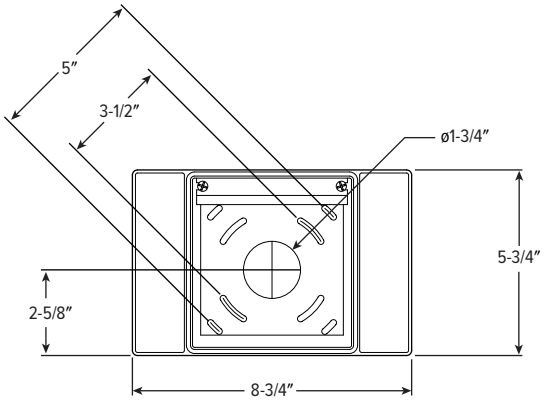
FRONT VIEW



SIDE VIEW



BACK VIEW

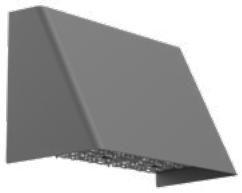


GARDCO by signify

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, and multiple control options further enhance energy savings.

Project:

Location: Pompano Beach

Cat.No: GWM-A06-840-T3M-UNV-X

Type: WS

Lamps: Qty:

Notes:

Ordering guide

example: GWM-A07-840-T3M-UNV-FAWS-DG

Luminaire	Configuration (nom. lumens)	Color Temperature	Distribution	Voltage	Dimming Controls [2]	Options (electrical, mechanical, etc)	Emergency	Finish
GWM GeoForm Wedge Medium	**A06** 2,500 lumens **A07** 4,000 lumens **A08** 5,000 lumens **A09** 6,000 lumens **A10**[1] 7,500 lumens **A11**[1] 8,500 lumens **A12**[1] 9,500 lumens **A13**[1] 11,000 lumens **A14**[1] 12,500 lumens	**830** 80CRI 3000K **840** 80CRI 4000K **740** 70CRI 4000K **750** 70CRI 5000K	**T2M** Type 2 **T3M** Type 3 **T4M** Type 4	**120** 120V **208** 208V **240** 240V **277** 277V **UNV** 120-277V (50/60Hz) **347** 347V **480** 480V **HVU** 347-480V (50/60Hz)	**none** Leave blank (10kV kA dimming driver standard) **DLEA** Dimming Leads Externally Accessible (controls by others) **DUCC**[1,7] Dual Circuit Control **FAWS** Field Adjustable Wattage Selector **MW30**[1,3] Microwave motion sensor factory set at 30% dimming **DynaDimmer: Automatic Profile Dimming** Only offered with A08-A13 **CS50**[1,4] Safety 50% dimming, 7 hours **CM50**[1,4] Median 50% dimming, 8 hours **CS30**[1,4] Safety 30% dimming, 7 hours **CM30**[1,4] Median 30% dimming, 8 hours	**none** Leave blank (10kV/kA standard) **SP2** Surge protector 20kV/10kA (option) **FS1** Single fuse (120, 277, or 347VAC) **FS2** Double fuse (208V, 240V, or 480V) **FS3** Double fuse Canadian double pull (208V, 240V, or 480V) **PCB**[5] Photocontrol Button	**none** Leave blank **EC**[8] Emergency battery pack, cold rated (-20°C to 40°C). 120 or 277V only.	**Textured** **BK** Black **WH** White **BZ** Bronze **DG** Dark Gray **MG** Medium Gray **Customer specified** **RAL** Specify optional color or RAL, (ex: OC-LGP or OC-RAL7024) **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 in 120- 277V or UNV.
5. Only available in 120-277, must specify voltage.
6. 120-277V only. Luminaire must be ordered with DLEA option if using WIAP.
7. DUCC only available with A06, A07, A08, A09.
8. Available with 120V or 277V only.

Luminaire Accessories (order separately)

GF-WS-BK Wall Mounted Box for surface conduit, painted black

GWM GeoForm wedge medium

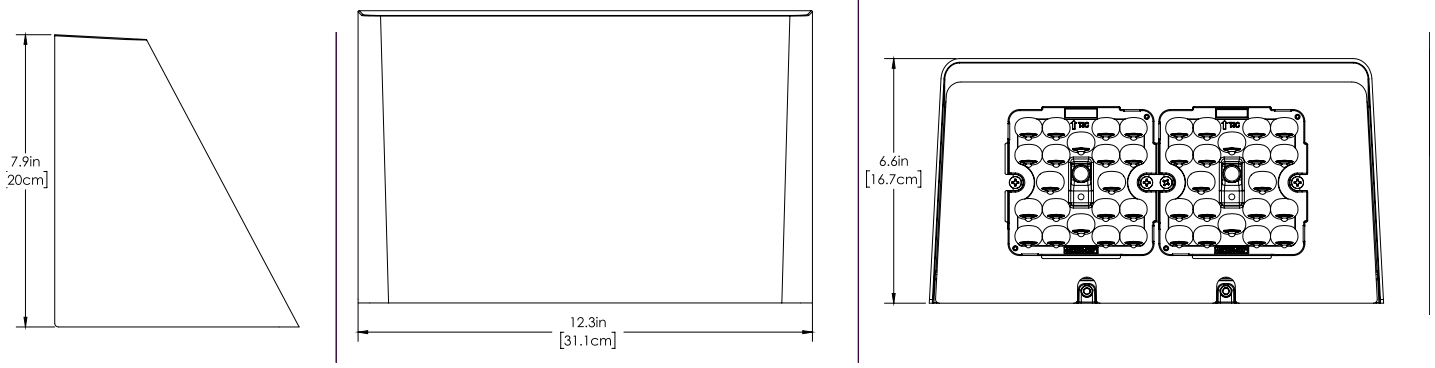
Wall sconce

Dimensions

GWM Wedge

Standard

Weight: 7.5 Lbs (3.4kg)

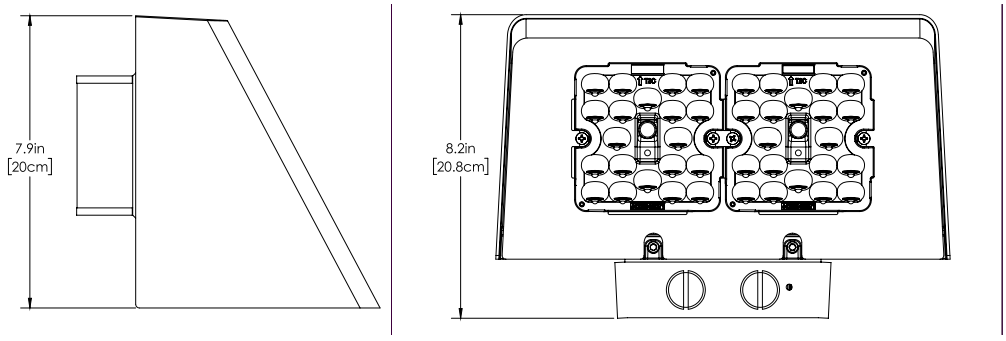


Accessory details

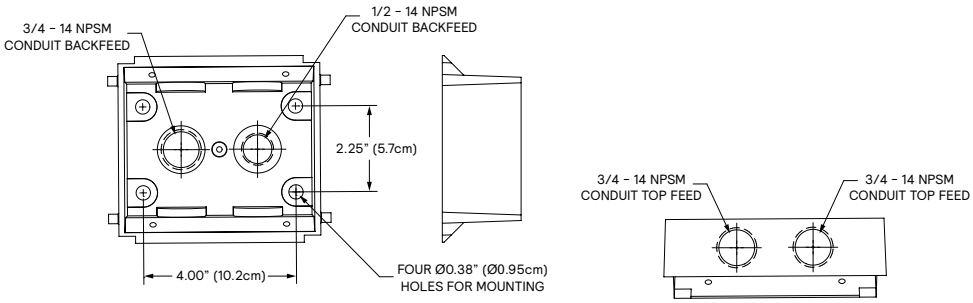
Surface mount conduit box (GF-WS-BK)

GWM Wedge with surface conduit wall mount box

Weight: 8.1 Lbs (3.7kg)



GF-WS-BK Details



DRC

PZ23-12000049
02/21/2024

GWM GeoForm wedge medium

Wall sconce

GWM Lumen values

3000K, 80CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWM-A06-830	3000	80	16	2506	B1-U0-G1	154	2540	B1-U0-G1	156	2480	B1-U0-G1	152
GWM-A07-830	3000	80	23	3522	B1-U0-G1	153	3570	B1-U0-G1	155	3485	B1-U0-G1	152
GWM-A08-830	3000	80	30	4487	B1-U0-G1	150	4548	B1-U0-G1	152	4440	B1-U0-G1	148
GWM-A09-830	3000	80	39	5700	B2-U0-G2	147	5777	B2-U0-G2	149	5640	B1-U0-G2	146
GWM-A10-830	3000	80	45	6521	B2-U0-G2	145	6609	B2-U0-G2	147	6452	B1-U0-G2	143
GWM-A11-830	3000	80	52	7473	B2-U0-G2	145	7575	B2-U0-G2	147	7395	B2-U0-G2	143
GWM-A12-830	3000	80	59	8506	B2-U0-G2	143	8621	B2-U0-G2	145	8417	B2-U0-G2	142
GWM-A13-830	3000	80	66	9423	B2-U0-G2	142	9551	B2-U0-G2	144	9324	B2-U0-G2	140
GWM-A14-830	3000	80	77	10783	B3-U0-G3	139	10929	B3-U0-G3	141	10670	B2-U0-G2	138

4000K, 80CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWM-A06-840	4000	80	16	2599	B1-U0-G1	159	2634	B1-U0-G1	162	2571	B1-U0-G1	158
GWM-A07-840	4000	80	23	3652	B1-U0-G1	159	3701	B1-U0-G1	161	3614	B1-U0-G1	157
GWM-A08-840	4000	80	30	4653	B1-U0-G1	156	4716	B1-U0-G1	158	4604	B1-U0-G1	154
GWM-A09-840	4000	80	39	5910	B2-U0-G2	153	5990	B2-U0-G2	155	5848	B1-U0-G2	151
GWM-A10-840	4000	80	45	6761	B2-U0-G2	150	6852	B2-U0-G2	152	6690	B1-U0-G2	149
GWM-A11-840	4000	80	52	7749	B2-U0-G2	150	7853	B2-U0-G2	152	7667	B2-U0-G2	149
GWM-A12-840	4000	80	59	8819	B2-U0-G2	149	8939	B2-U0-G2	151	8727	B2-U0-G2	147
GWM-A13-840	4000	80	66	9770	B3-U0-G3	147	9902	B3-U0-G3	149	9668	B2-U0-G2	146
GWM-A14-840	4000	80	77	11180	B3-U0-G3	144	11331	B3-U0-G3	146	11063	B2-U0-G2	143

4000K, 70CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWM-A06-740	4000	70	16	2928	B1-U0-G1	180	2968	B1-U0-G1	182	2898	B1-U0-G1	178
GWM-A07-740	4000	70	23	4115	B1-U0-G1	179	4171	B1-U0-G1	181	4072	B1-U0-G1	177
GWM-A08-740	4000	70	30	5243	B2-U0-G2	175	5314	B2-U0-G2	178	5188	B1-U0-G1	174
GWM-A09-740	4000	70	39	6660	B2-U0-G2	172	6750	B2-U0-G2	174	6590	B1-U0-G2	170
GWM-A10-740	4000	70	45	7619	B2-U0-G2	169	7722	B2-U0-G2	172	7539	B2-U0-G2	168
GWM-A11-740	4000	70	52	8732	B2-U0-G2	169	8850	B2-U0-G2	172	8640	B2-U0-G2	167
GWM-A12-740	4000	70	59	9938	B3-U0-G3	168	10073	B3-U0-G3	170	9834	B2-U0-G2	166
GWM-A13-740	4000	70	66	11010	B3-U0-G3	166	11159	B3-U0-G3	168	10894	B2-U0-G2	164
GWM-A14-740	4000	70	77	12598	B3-U0-G3	163	12769	B3-U0-G3	165	12466	B2-U0-G2	161

5000K, 70CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWM-A06-750	5000	70	16	2812	B1-U0-G1	173	2850	B1-U0-G1	175	2783	B1-U0-G1	171
GWM-A07-750	5000	70	23	3952	B1-U0-G1	172	4006	B1-U0-G1	174	3911	B1-U0-G1	170
GWM-A08-750	5000	70	30	5035	B2-U0-G2	168	5103	B2-U0-G2	171	4982	B1-U0-G1	167
GWM-A09-750	5000	70	39	6396	B2-U0-G2	165	6482	B2-U0-G2	167	6329	B1-U0-G2	164
GWM-A10-750	5000	70	45	7317	B2-U0-G2	163	7416	B2-U0-G2	165	7240	B2-U0-G2	161
GWM-A11-750	5000	70	52	8385	B2-U0-G2	163	8499	B2-U0-G2	165	8297	B2-U0-G2	161
GWM-A12-750	5000	70	59	9544	B2-U0-G2	161	9673	B3-U0-G3	163	444	B2-U0-G2	59
GWM-A13-750	5000	70	66	10573	B3-U0-G3	159	10716	B3-U0-G3	161	462	B2-U0-G2	58
GWM-A14-750	5000	70	77	12099	B3-U0-G3	156	12262	B3-U0-G3	158	972	B2-U0-G2	55

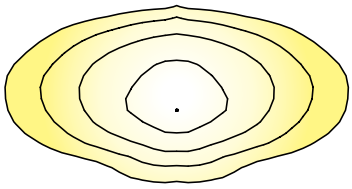
GWM GeoForm wedge medium

Wall sconce

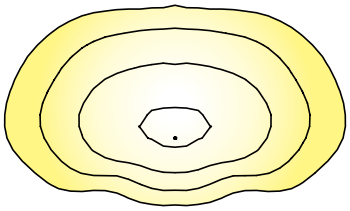
LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2M		Type 3M		Type 4M	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
GWM-AXX-740-X-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G1	838	B0-U0-G0
GWM-AXX-750-X-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G1	804	B0-U0-G0
GWM-AXX-830-X-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G1	717	B0-U0-G0
GWM-AXX-840-X-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G1	743	B0-U0-G0

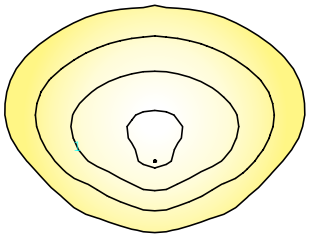
Optical Distributions



Type 2



Type 3



Type 4

Specifications

Construction

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Removable die cast backplate to allow access to driver or other electronic components for servicing. The housing acts as the main heat sinking component, for maximum thermal dissipation. Giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

IK Rating IK08 high impact resistance rating for both the housing and optics

IP Rating IP65 rated luminaire with IP66 rated light engine

Light engine

Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

LED Module

LED PCBA made of 20 LEDs populated on aluminum metal clad board for optimal thermal dissipation ensuring long LED life.

Optical System

Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. 0% uplight and U0 per IESNA TM-15.

Mounting

Mounting is achieved through integral back plate that features a hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire body. Luminaire ships fully assembled, ready to install.

Installation

GeoForm features an integral hook on its mounting plate which allows a single installer to perform wiring without assistance. See installation instructions for complete details.

Control options

0-10V dimming (DLEA): 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 (DUCC): 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.

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 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%

FAWS Position	Percent of Typical Lumen Output
6	80%
7	85%
8	90%
9	95%
10	100%

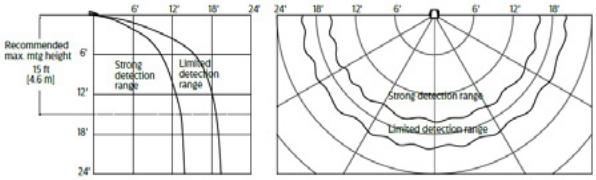
Note: Typical value accuracy +/- 5%

GWM GeoForm wedge medium

Wall sconce

Specifications (cont'd)

Motion Response (MW30): Motion response luminaires include a high frequency microwave sensor, 5.8GHz+/- 75MHz microwave ISM continuous wave band with 360° coverage area, <0.5 mW transmitting power and <1 W standby power. Factory programmed settings dim fixture to 30% with time delay of 5 minutes with no stand-by period. When motion is detected, the luminaire returns to 100% full light output and will remain on full power for 5 minutes.



Automatic Profile Dimming (CS/CM): 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 2, or 3 hours before depending on the duration of dimming. Cannot be used with other dimming control options.

Emergency Battery Backup (EC): Emergency battery pack included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. EC is cold weather rated for use in ambient temperature conditions from -20°C (-4°F) to 40°C (104°F) designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120 or 277V.

Electrical

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. 0-10V dimming driver down to 10% standard. RoHS 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): Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All GeoForm configurations are qualified under Design Lights Consortium® Premium category. Consult DLC Qualified Products List on Specific Classifications and for more details. CCTs 3000K and warmer are IDA Dark Sky Approved. FCC Compliant.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powder coat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. 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

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

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 initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>102,000 hours	>91%

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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