



Gardco PureForm LED area medium P26 luminaire features narrow spectrum amber LEDs combined with special shielding, making it a wildlife friendly lighting solution. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Ordering guide

Example: P26-64L-600-AM-G2-AR-5-120-FWC-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
P26			AM-G2			
P26 PureForm area medium, wildlife	48L 48 LEDs (3 modules)	400 400mA 600 600mA	AM-G2 Direct Amber (nominal 590nm narrow spectrum LED) Generation 2	AR Arm Mount (standard) ¹	Type 2	120 120V
	64L 64 LEDs (4 modules)	The following mounting kits must be ordered separately (See accessories)		Type 3	208 208V	
				Type 4	240 240V	
				Type 5	277 277V	
				Type 5W	347 347V	
80L 80 LEDs (5 modules)		WS Wall mount with surface conduit rear entry permitted	Type 4	480 480V		
			RAM Retrofit arm mount kit ¹	Type 5	UNV 120-277V (50/60Hz)	
						HVU 347-480V (50/60Hz)

Options					
Dimming controls	Motion sensing	Photo-sensing	Electrical	Luminaire	Finish
DD 0-10V External dimming (by others) ³ FAWS Field Adjustable Wattage Selector ^{3,4} DynaDimmer: Automatic Profile Dimming CS50 Security 50% Dimming, 7 hours ^{3,5} CM50 Median 50% Dimming, 8 hours ^{3,5} CS30 Security 30% Dimming, 7 hours ^{3,5} CM30 Median 30% Dimming, 8 hours ^{3,5}	IMRI3 Integral with #3 lens ¹⁰	PCB Photocontrol Button ^{5,6} TLRD5 Twist Lock Receptacle 5 Pin ⁷ TLRD7 Twist Lock Receptacle 7 Pin ⁷ TLRPC Twist Lock Receptacle w/Photocell ^{6,8}	Fusing F1 Single (120, 277, 347VAC) ⁶ F2 Double (208, 240, 480VAC) ⁶ F3 Canadian Double Pull (208, 240, 480VAC) ⁶ Pole Mount Fusing FP1 Single (120, 277, 347VAC) ⁶ FP2 Double (208, 240, 480VAC) ⁶ FP3 Canadian Double Pull (208, 240, 480VAC) ⁶ Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included as standard TB Terminal Block RPA Round Pole Adapter (fits to 3"- 3.9" O.D. pole) ⁹ FWC Wildlife Friendly External House side shield ²	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)
BL Bi-level functionality with motion sensor ^{3,11}	IMRI7 Integral with #7 lens ¹⁰	<ol style="list-style-type: none"> Mounts to a 4-5" round pole with adapter included for square poles. External shield shipped with luminaire. Not available with other control options. Not available with motion sensor. Not available in 347 or 480V Must specify input voltage. Dimming will not be connected to NEMA receptacle if ordering with other control options. Not available in 480V. Order photocell separately with TLRD5/7. Not available with WS. RPAs provided with black finish standard. Not available with DD and FAWS dimming control options. Must be specified with motion sensor lens. 			
WIAP ^{3,11} Wireless Interact (includes SR driver and SR receptacle)	LB (7'-15' mounting height) sensor, Black color housing Wireless Interact, integral				
	LW (7'-15' mounting height) sensor, White color housing				
	HB (15'-40' mounting height) sensor, Black color housing				
	HW (15'-40' mounting height) sensor, White color housing				



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PureForm P26 Accessories¹ (ordered separately, field installed)

Mounting Accessories

(F) = Specify finish

P26-RAM-G2-(F)	Retrofit Arm mount kit
P26-WS-G2-(F)	Wall mount with surface conduit rear entry permitted
P26-BD-G2	Bird deterrent

Controls Accessories

BL Optional Remote Programming Tool	
IRT9015	Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App).

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

Pole Top Fitters

(F) = Specify finish

PTF2 - Pole top fitter fits 23/8-21/2" OD x 4" depth tenon	
PTF2-1-90-(F)	1 luminaire at 90°
PTF2-2-90-(F)	2 luminaires at 90°
PTF2-2-180-(F)	2 luminaires at 180°
PTF2-3-90-(F)	3 luminaires at 90°
PTF2-4-90-(F)	4 luminaires at 90°
PTF2-3-120-(F)	3 luminaires at 120°
PTF3 - Pole top fitter fits 3-31/2" OD x 6" depth tenon	
PTF3-1-90-(F)	1 luminaire at 90°
PTF3-2-90-(F)	2 luminaires at 90°
PTF3-2-180-(F)	2 luminaires at 180°
PTF3-3-90-(F)	3 luminaires at 90°
PTF3-4-90-(F)	4 luminaires at 90°
PTF3-3-120-(F)	3 luminaires at 120°

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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. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 600 mA	>100,000 hours	>60,000 hours	>88%

LED Wattage and Lumen Values

Unshielded

Ordering Code	Total LEDs	LED Current (mA)	Dominant Wavelength (nm)	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type SW		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-AM-G2-x	48	400	596	36	2,833	B1-U0-G1	79	2,739	B1-U0-G1	76	2,842	B1-U0-G1	79	2,918	B2-U0-G1	81	2,935	B2-U0-G1	81
P26-48L-600-AM-G2-x	48	600	596	55	3,316	B1-U0-G1	60	3,206	B1-U0-G1	58	3,326	B1-U0-G1	60	3,415	B2-U0-G1	62	3,435	B3-U0-G1	62
P26-64L-400-AM-G2-x	64	400	596	62	3,731	B1-U0-G1	60	3,608	B1-U0-G1	58	3,743	B1-U0-G1	61	3,842	B3-U0-G1	62	3,865	B3-U0-G1	63
P26-64L-600-AM-G2-x	64	600	596	94	4,367	B1-U0-G1	46	4,223	B1-U0-G1	45	4,381	B1-U0-G1	46	4,498	B3-U0-G1	48	4,524	B3-U0-G1	48
P26-80L-400-AM-G2-x	80	400	596	88	4,291	B1-U0-G1	49	4,150	B1-U0-G1	47	4,305	B1-U0-G1	49	4,420	B3-U0-G1	50	4,445	B3-U0-G1	51
P26-80L-600-AM-G2-x	80	600	596	116	5,023	B1-U0-G1	43	4,857	B1-U0-G2	42	5,039	B1-U0-G2	43	5,173	B3-U0-G1	44	5,203	B3-U0-G1	45

Shielded

Ordering Code	Total LEDs	LED Current (mA)	Dominant Wavelength (nm)	Average System Watts	2-FWC		3-FWC		4-FWC		5-FWC		5W-FWC	
					Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)
P26-48L-400-AM-G2-x	48	400	596	36	1,094	22	1,058	29	1,098	22	1127	23	1,134	22
P26-48L-600-AM-G2-x	48	600	596	55	1,280	16	1,238	22	1,284	17	1319	18	1,326	17
P26-64L-400-AM-G2-x	64	400	596	62	1,440	21	1,393	23	1,445	22	1483	23	1,492	22
P26-64L-600-AM-G2-x	64	600	596	94	1,686	16	1,630	17	1,691	17	1736	18	1,746	17
P26-80L-400-AM-G2-x	80	400	596	88	1,656	22	1,602	18	1,662	22	1706	23	1,716	23
P26-80L-600-AM-G2-x	80	600	596	116	1,939	17	1,875	16	1,945	17	1997	18	2,009	17

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.

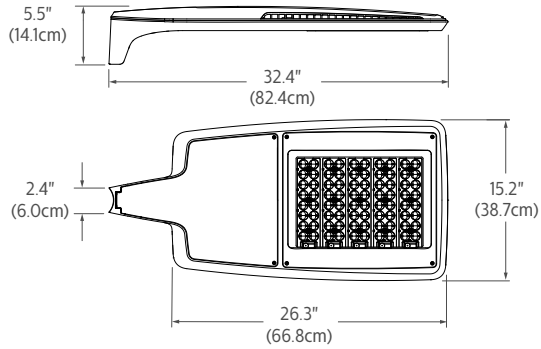
NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

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Dimensions

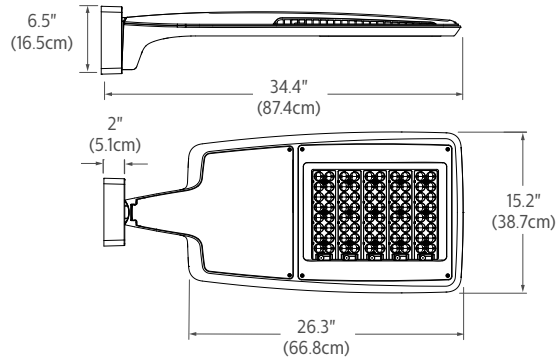
Standard Arm (AR)

Weight: 27 Lbs (12.4 Kg) EPA: 0.26ft² (.024m²)



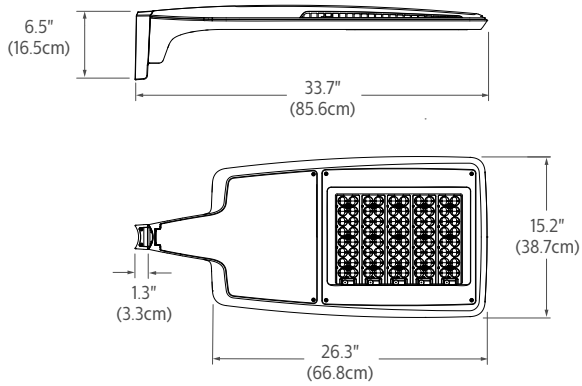
Wall (WS)

Weight: 30 Lbs. (13.7 Kg) EPA: 0.30ft² (.028m²)



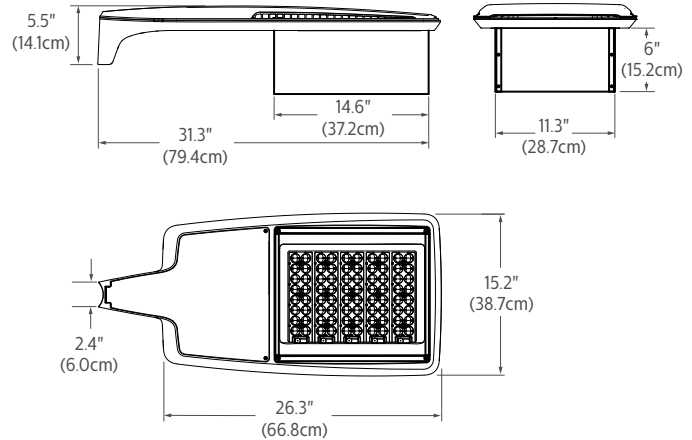
Retrofit Arm (RAM)

Weight: 28 Lbs (12.7 Kg) EPA: 0.28ft² (.026m²)

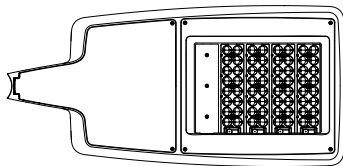


Wildlife Friendly External House side shield (FWC)

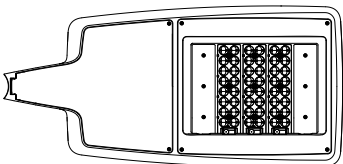
Weight: 29 Lbs (13.1 Kg) EPA: 1.3ft² (0.12m²)



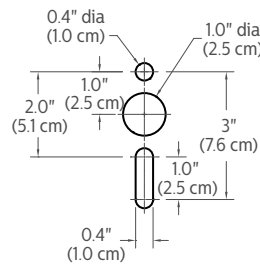
4 module configuration



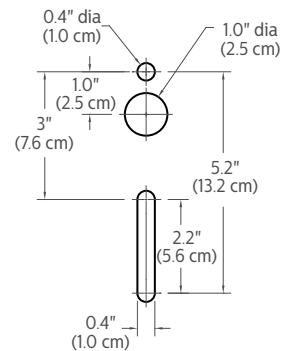
3 module configuration



Standard Arm (AR) drill pattern



Retrofit arm (RAM) drill pattern



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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 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 IP66, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3, 4 and 5 modules or 48, 64 and 80 LEDs. Module is RoHS compliant. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Optical systems

Type 2, 3, 4, 5 and 5W distributions available. 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. Optional wall mounting accessories.

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.

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 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 dimming profile schedule. Automatic dimming profile scheduled with the following settings:

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

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

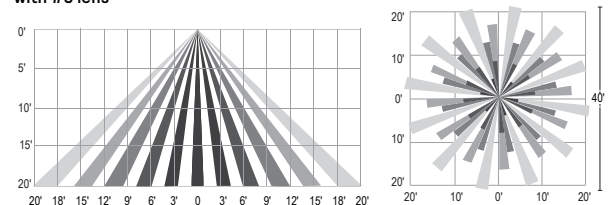
Motion response options

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. P50-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

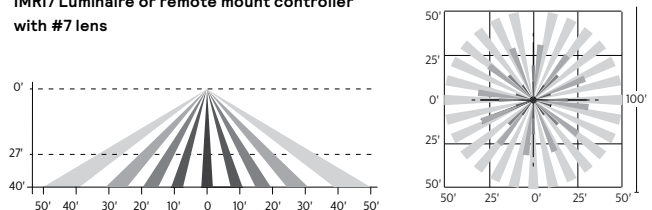
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response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

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

IMRI3 Luminaire or remote mount controller with #3 lens



IMRI7 Luminaire or remote mount controller with #7 lens



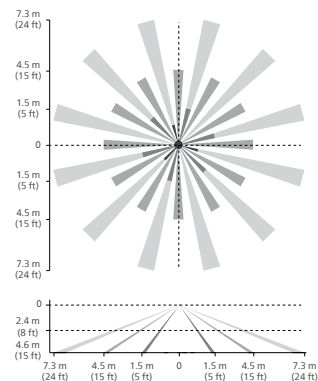
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Specifications (continued)

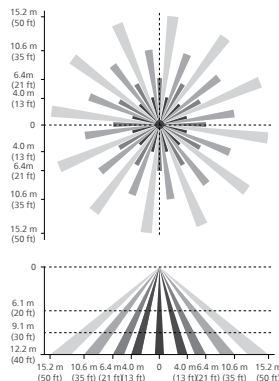
Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling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

For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

LB or LW low sensor



HB or HW high sensor



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

Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 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 NeutralGround, 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). Florida Wildlife Certified.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl 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.

