



by Signify

Site & Area

PureForm

P26 medium area light
with comfort optics



Gardco PureForm LED area medium comfort P26 features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 2, 3, and 5 optical distributions are available. A full range of control options provides additional energy savings.

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

Ordering guide

example: P26-140L-650-NW-G2-AR-5-120-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
P26						
P26 PureForm area medium, 26"	140L 140 LEDs (comfort engine)	450 450 mA 650 650 mA 1150 1150 mA 1675 1675 mA 2100 2100 mA	WW-G2 Warm White 3000K, 70 CRI Generation 2 NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5000K, 70 CRI Generation 2 WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 ¹ BW-G2 Balanced White 3500K (80 CRI) Generation 2 ¹ AM-G2 Amber Generation 2 ^{1,13}	AR Arm Mount (standard) ² <i>The following mounting kits must be ordered separately (See accessories)</i> 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 Comfort Type 2 Type 3 3 Comfort Type 3 Type 5 5 Comfort Type 5	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVV 347-480V (50/60Hz)

Options					
Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
DD 0-10V External dimming (controls by others) ⁴ FAWS Field Adjustable Wattage Selector ^{4,5} SW Interface module for SiteWise ^{4,6,8} LLC Integral wireless module ^{4,6,7,16} BL Bi-level functionality ^{4,16} DynaDimmer: Automatic Profile Dimming CS50 Security 50% Dimming, 7 hours ^{4,7} CM50 Median 50% Dimming, 8 hours ^{4,7} CS30 Security 30% Dimming, 7 hours ^{4,7} CM30 Median 30% Dimming, 8 hours ^{4,7}	IMRI2 Integral with #2 lens ¹⁴ IMRI3 Integral with #3 lens ¹⁴	PCB Photocontrol Button ^{7,9} TLRD5 Twist Lock Receptacle 5 Pin ¹⁰ TLRD7 Twist Lock Receptacle 7 Pin ¹⁰ TLRPC Twist Lock Receptacle w/Photocell ^{9,11}	Fusing F1 Single (120, 277, 347VAC) ⁹ F2 Double (208, 240, 480VAC) ⁹ F3 Canadian Double Pull (208, 240, 480VAC) ⁹ Pole Mount Fusing FP1 Single (120, 277, 347VAC) ⁹ FP2 Double (208, 240, 480VAC) ⁹ FP3 Canadian Double Pull (208, 240, 480VAC) ⁹ 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) ¹²	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)

- Extended lead times apply. Contact factory for details.
- Mounts to a 4-5" OD round pole with adapter included for square poles.
- Limited to a maximum of 45 degrees aiming above horizontal.
- Not available with other control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Not available in 347 or 480V.
- Available only in 120 or 277V.
- 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 SF and WS. RPAs provided with black finish standard.
- Not available in 2100mA.
- Not available with DD and FAWS dimming control options.
- Not available with DD, FAWS, BL, LLC dimming control options (SW or DynaDimmer required).
- Must specify a motion sensor lens.



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PureForm P26 Accessories (ordered separately, field installed)

Controls Accessories

BL Optional Remote Programming Tool
FSIR-100

Mounting Accessories

PureForm PTF2 (pole top fitter fits 23/8-21/2" 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 3-31/2" 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 31/2-4" 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°

P26-SF-G2-(F) Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
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
P26-EHS-G2-BK External House Side Shield, Black

(F) = Specify finish

LED Wattage and Lumen Values – 3000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-140L-450-WW-G2-x-UNV	140	450	3000	22	2329	B1-U0-G1	104	2394	B1-U0-G1	107	2346	B1-U0-G1	105
P26-140L-650-WW-G2-x-UNV	140	650	3000	30	3330	B2-U0-G2	110	3423	B2-U0-G2	113	3353	B2-U0-G1	110
P26-140L-1150-WW-G2-x-UNV	140	1150	3000	52	5641	B2-U0-G2	108	5800	B2-U0-G2	111	5681	B3-U0-G2	109
P26-140L-1675-WW-G2-x-UNV	140	1675	3000	76	7831	B3-U0-G3	103	8051	B3-U0-G3	106	7887	B3-U0-G2	104
P26-140L-2100-WW-G2-x-UNV	140	2100	3000	96	9376	B3-U0-G3	98	9639	B3-U0-G3	101	9443	B3-U0-G2	99

LED Wattage and Lumen Values – 4000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-140L-450-NW-G2-x-UNV	140	450	4000	22	2412	B1-U0-G1	107	2480	B1-U0-G1	110	2429	B2-U0-G1	109
P26-140L-650-NW-G2-x-UNV	140	650	4000	30	3448	B2-U0-G2	113	3545	B2-U0-G2	116	3473	B2-U0-G1	114
P26-140L-1150-NW-G2-x-UNV	140	1150	4000	52	5842	B2-U0-G2	111	6006	B2-U0-G2	114	5884	B3-U0-G2	113
P26-140L-1675-NW-G2-x-UNV	140	1675	4000	75	8110	B3-U0-G3	106	8338	B3-U0-G3	109	8168	B3-U0-G2	108
P26-140L-2100-NW-G2-x-UNV	140	2100	4000	96	9710	B3-U0-G3	101	9982	B3-U0-G3	103	9779	B3-U0-G2	102

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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LED Wattage and Lumen Values - 5000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-140L-450-CW-G2-x-UNV	140	450	5000	22	2508	B1-U0-G1	112	2579	B1-U0-G1	116	2526	B2-U0-G1	113
P26-140L-650-CW-G2-x-UNV	140	650	5000	30	3586	B2-U0-G2	118	3687	B2-U0-G2	121	3612	B2-U0-G1	119
P26-140L-1150-CW-G2-x-UNV	140	1150	5000	52	6076	B2-U0-G2	116	6246	B3-U0-G3	120	6119	B3-U0-G2	117
P26-140L-1675-CW-G2-x-UNV	140	1675	5000	76	8434	B3-U0-G3	111	8671	B3-U0-G3	114	8494	B3-U0-G2	112
P26-140L-2100-CW-G2-x-UNV	140	2100	5000	96	10098	B3-U0-G3	105	10382	B3-U0-G3	108	10170	B3-U0-G3	106

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.

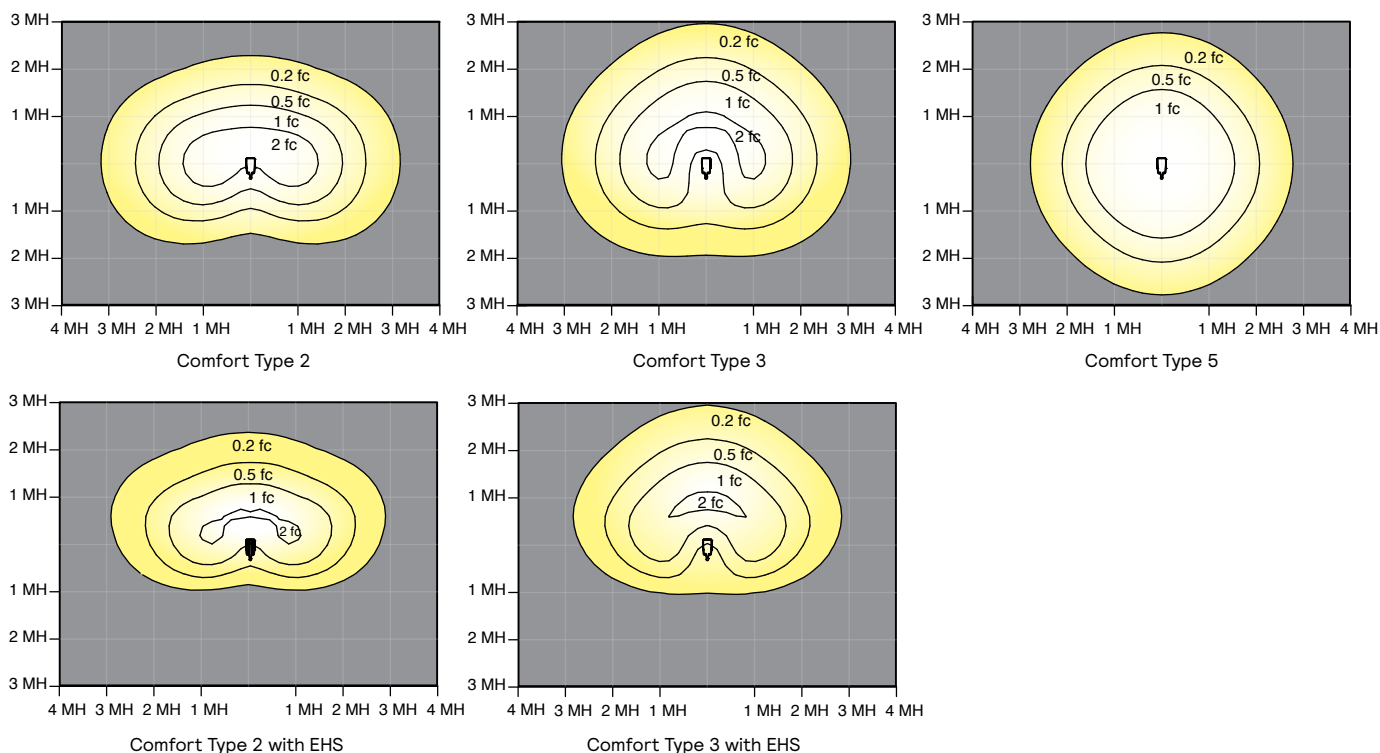
Predicted Lumen Depreciation Data

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. 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 L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 2100 mA	>100,000 hours	>60,000 hours	>89%

Optical Distributions

Based on 20' mounting height



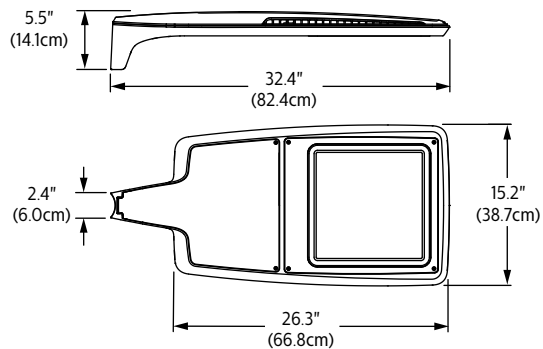
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Dimensions

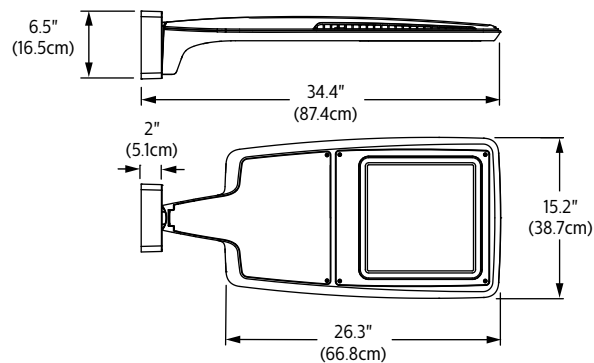
Standard Arm (AR)

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



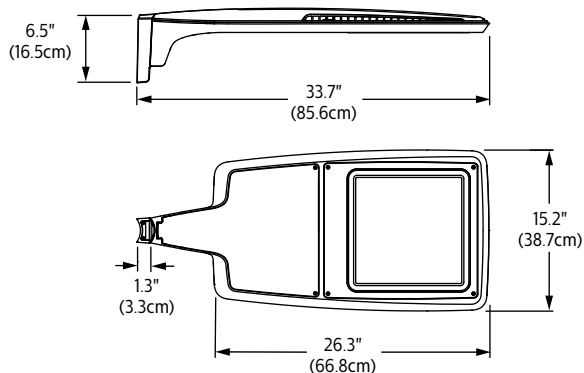
Wall (WS)

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



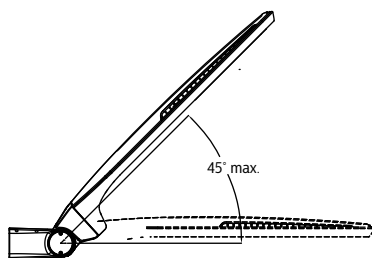
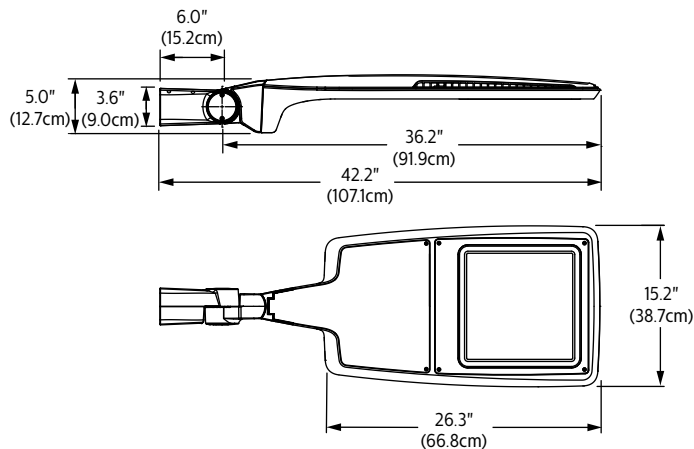
Retrofit Arm (RAM)

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

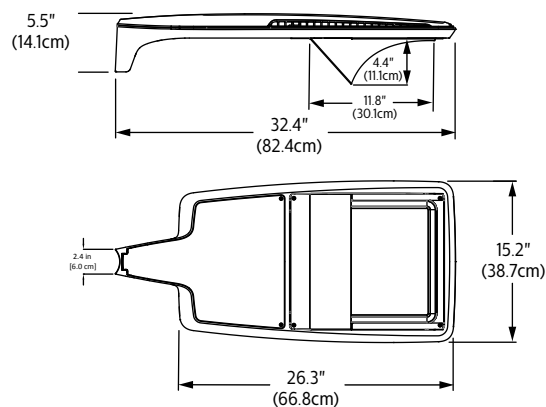


Slip fitter (SF)

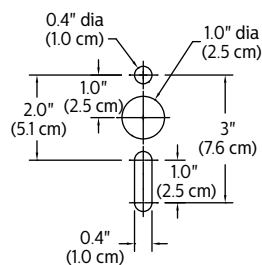
Weight: 32 Lbs (14.6 Kg) EPA: 0.38ft² (.035m²)



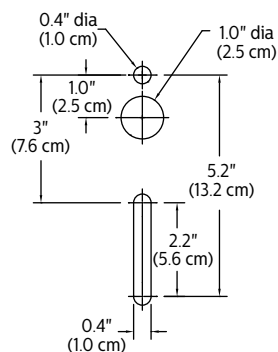
With External House Shield option (EHS)



Standard Arm (AR) drill pattern



Retrofit arm 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 IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

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

Light engine

Light guide technology provides low-glare, uniform illumination. Composed of 140 LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Standard color temperatures: 3000K +/- 130K, 4000K +/- 130K, 5000K +/- 225K. Minimum CRI of 70. Also available in 2700K, 3500K, and Amber (Dominant wavelength 589nm, peak wavelength 633nm, and minimum wavelength 486nm) with extended lead times.

Energy saving benefits

System efficacy up to 105 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

The advanced LED comfort optical system provides Types 2, 3, and 5. Composed of high performance UV-stabilized optical grade lens with molded micro-optics to achieve desired distribution optimized to get a exceptional lighting uniformity. 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" 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.

SiteWise (SW): SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Cannot be used with other control options or photocell options. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems. Complete information on the control system can be found on the SiteWise website at philips.com/sitewise.

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.

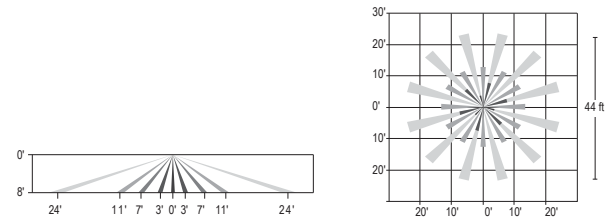
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output 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%

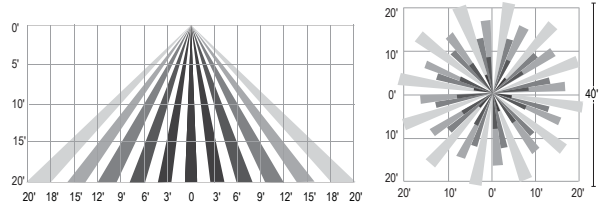
Note: Typical value accuracy +/- 5%

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 #2 lens (LLC-IMRI2) for 8' to 15' mounting height or #3 lens (LLC-IMRI3) for 8-25' mounting heights.

LLC-IMRI2 Luminaire with #2 lens



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 required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

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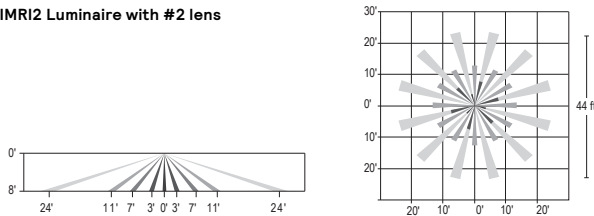
Area light with comfort optics

Specifications (cont'd)

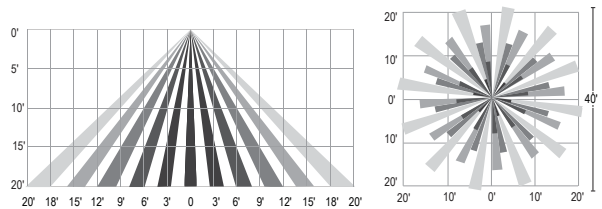
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile and SiteWise), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the 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 (IMRI2/IMRI3): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 is designed for mounting heights 8' to 15'. Lens #3 (IMRI3) is designed for higher mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

IMRI2 Luminaire with #2 lens



IMRI3 Luminaire with #3 lens



in the pole (see Gardco Poles specification sheets for more information).

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 P26 comfort configurations are qualified under Standard 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, triglycidic 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](https://www.signify.com/warranties) for complete details and exclusions.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

