



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: P26-196L-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"	196L 196 LEDs (comfort engine)	450 450mA 650 650mA 1150 1150mA 1675 1675mA 2100 2100mA	WW-G2 Warm White 3000K, 80CRI Generation 2 NW-G2 Neutral White 4000K, 80CRI Generation 2 CW-G2 Cool White 5000K, 70CRI Generation 2 WY-G2 Warm Yellow 2700K, 80CRI Generation 2 ¹ BW-G2 Balanced White 3500K (80CRI) Generation 2 ¹	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 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) HVU 347-480V (50/60Hz)
	140L 140 LEDs (comfort engine)		AM-G2 Amber Generation 2 ^{1,13}			

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} LLC Integral wireless module ^{4, 6, 7, 15} BL Bi-level functionality ^{4, 15} 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 ¹³ IMRI3 Integral with #3 lens ¹³	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 RPA Round Pole Adapter (fits to 3"- 3.9" O.D. pole) ¹¹	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.
- 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 (DynaDimmer required).
- Must specify a motion sensor lens.



P26 PureForm LED medium

Area light with comfort optics

PureForm P26 Accessories ¹ (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

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

LED Wattage and Lumen Values - 5000K

Ordering code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
P26-196L-450-CW-G2-x-UNV	196	450	5000	21	2228	B1-U0-G1	107	2492	B1-U0-G1	119	2496	B2-U0-G1	119
P26-196L-650-CW-G2-x-UNV	196	650	5000	30	3175	B1-U0-G1	106	3552	B2-U0-G2	118	3558	B2-U0-G1	119
P26-196L-1150-CW-G2-x-UNV	196	1150	5000	51	5576	B2-U0-G2	109	6237	B2-U0-G2	122	6249	B3-U0-G2	123
P26-196L-1675-CW-G2-x-UNV	196	1675	5000	75	7888	B3-U0-G3	105	8823	B3-U0-G3	118	8839	B3-U0-G2	118
P26-196L-2100-CW-G2-x-UNV	196	2100	5000	95	9668	B3-U0-G3	102	10816	B3-U0-G3	114	10835	B3-U0-G3	114

LED Wattage and Lumen Values - 4000K

Ordering code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
P26-196L-450-NW-G2-x-UNV	196	450	4000	21	2122	B1-U0-G1	102	2373	B1-U0-G1	114	2377	B2-U0-G1	114
P26-196L-650-NW-G2-x-UNV	196	650	4000	30	3024	B1-U0-G1	101	3383	B2-U0-G2	113	3389	B2-U0-G1	113
P26-196L-1150-NW-G2-x-UNV	196	1150	4000	51	5310	B2-U0-G2	104	5940	B2-U0-G2	116	5951	B3-U0-G2	117
P26-196L-1675-NW-G2-x-UNV	196	1675	4000	75	7512	B3-U0-G3	100	8403	B3-U0-G3	112	8418	B3-U0-G2	112
P26-196L-2100-NW-G2-x-UNV	196	2100	4000	95	9208	B3-U0-G3	97	10301	B3-U0-G3	109	10319	B3-U0-G2	109

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.
P26_PureForm_area_medium_comfort 03/22 page 2 of 6

P26 PureForm LED medium

Area light with comfort optics

LED Wattage and Lumen Values - 3000K

Ordering code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
P26-196L-450-WW-G2-x-UNV	196	450	3000	21	2040	B1-U0-G1	98	2282	B1-U0-G1	109	2286	B2-U0-G1	109
P26-196L-650-WW-G2-x-UNV	196	650	3000	30	2908	B1-U0-G1	97	3253	B1-U0-G1	108	3259	B2-U0-G1	109
P26-196L-1150-WW-G2-x-UNV	196	1150	3000	51	5106	B2-U0-G2	100	5712	B2-U0-G2	112	5722	B3-U0-G2	112
P26-196L-1675-WW-G2-x-UNV	196	1675	3000	75	7223	B3-U0-G3	96	8080	B3-U0-G3	108	8094	B3-U0-G2	108
P26-196L-2100-WW-G2-x-UNV	196	2100	3000	95	8854	B3-U0-G3	93	9905	B3-U0-G3	105	9922	B3-U0-G2	105

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.

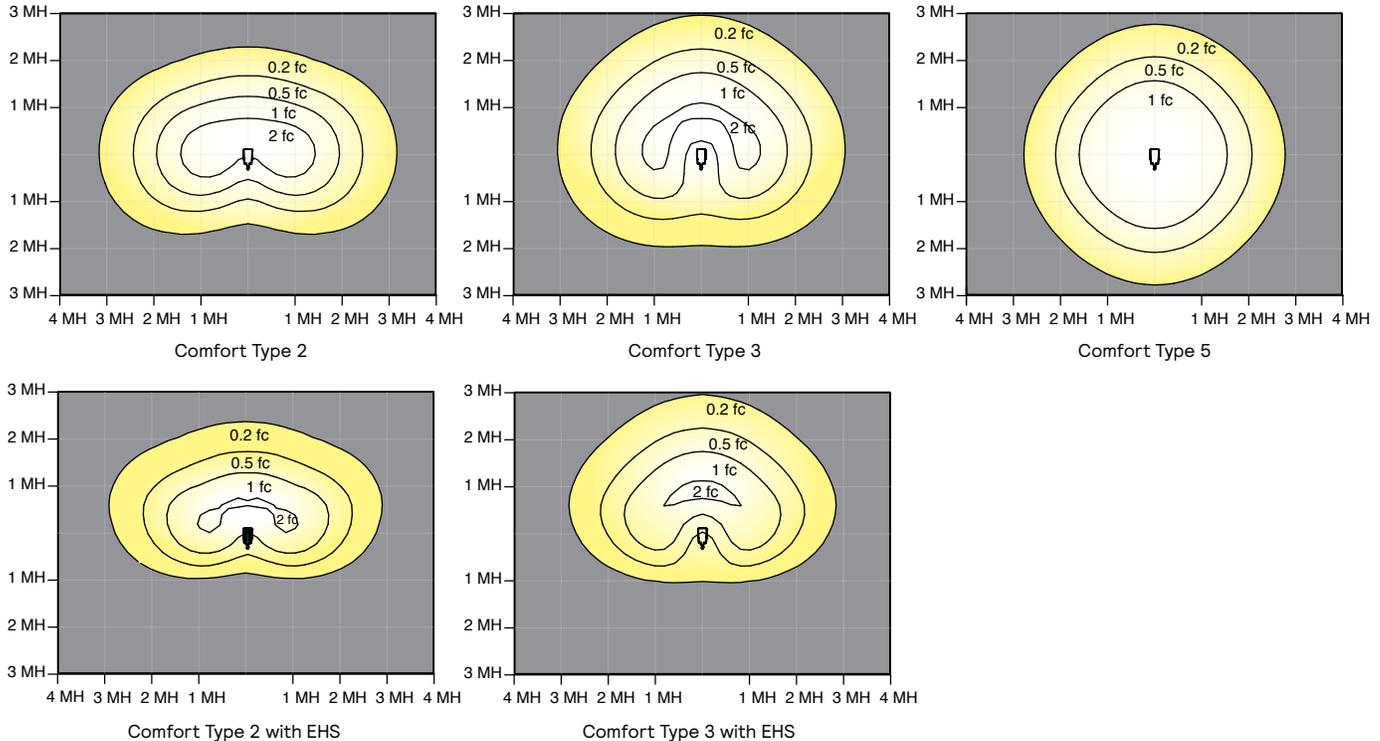
Predicted Lumen Depreciation Data

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



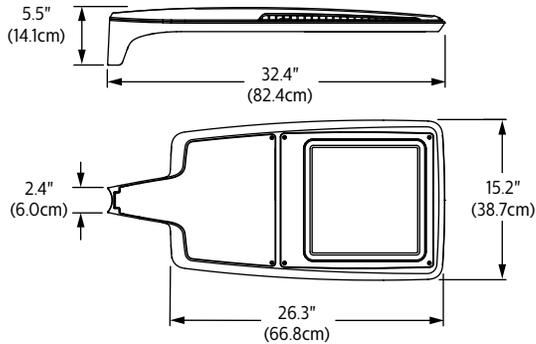
P26 PureForm LED medium

Area light with comfort optics

Dimensions

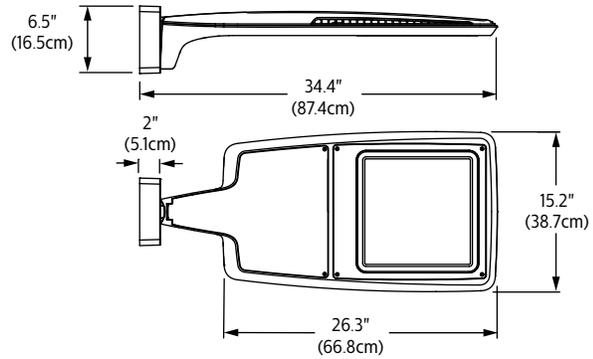
Standard Arm (AR)

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



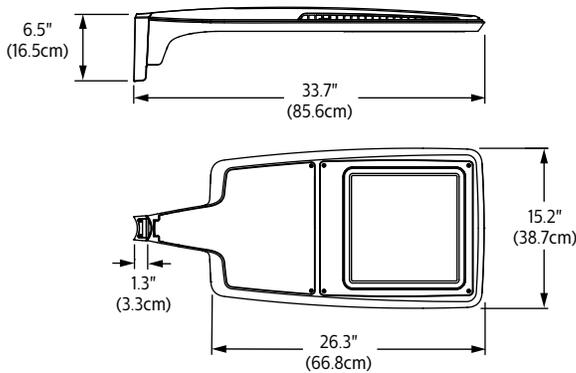
Wall (WS)

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



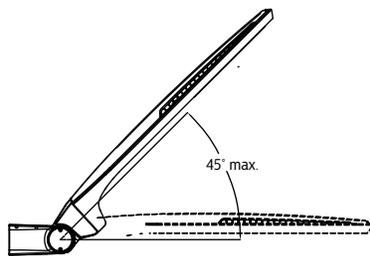
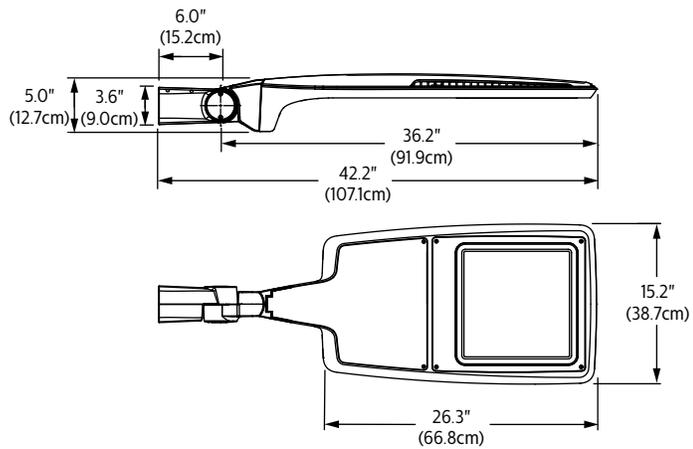
Retrofit Arm (RAM)

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

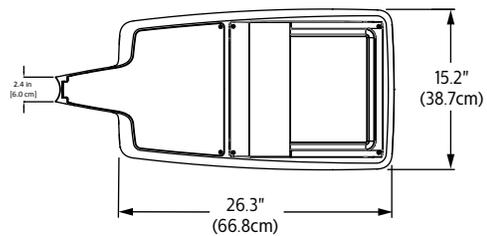
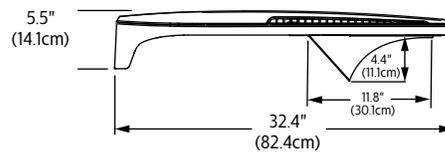


Slip fitter (SF)

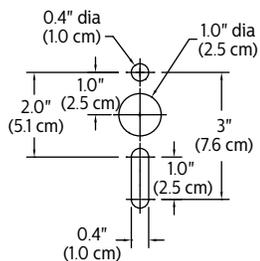
Weight: 32 Lbs (14.6 Kg) EPA: 0.38ft² (.035m²)



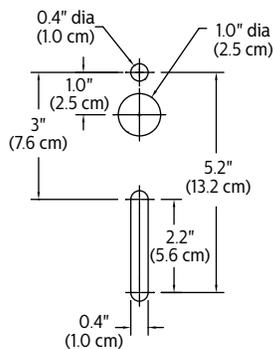
With External House Shield option (EHS)



Standard Arm (AR) drill pattern



Retrofit arm drill pattern



P26 PureForm LED medium

Area light with comfort optics

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 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 an exceptional lighting uniformity. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (UO 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.

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.

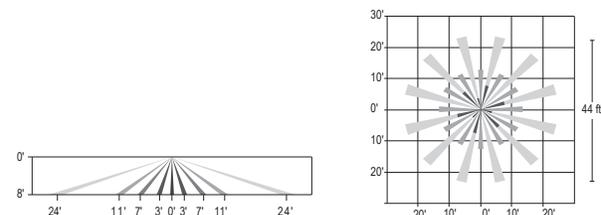
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output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

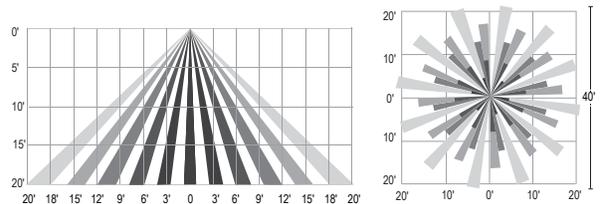
Note: Typical value accuracy +/- 5%

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).

P26 PureForm LED medium

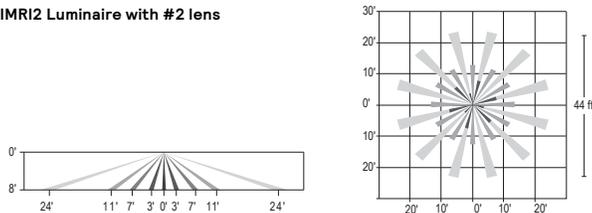
Area light with comfort optics

Specifications (cont'd)

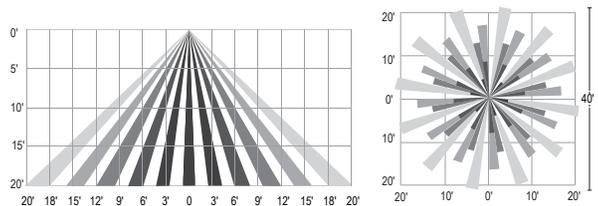
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response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



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.

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.

Button Photocontrol (PCB): Button style design for internal luminaire 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, 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.

