

FEATURES

- Patent pending edge-lit, drop lens optic
- The PGL8 offers exceptional uniformity and visual comfort with four standard distribution patterns
- Multiple control options available for an intelligent parking garage lighting solution
- Integral sensors, battery backup and uplight



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Two-piece low copper aluminum alloy die-cast housings with internal cooling fins
- Molded silicone gaskets throughout ensure the sealing between the two compartments and provides ingress protection
- Housing is designed with integral LED heat sink utilized for thermal transfer
- Electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powder coated for fade and abrasion resistant
- Standard lens is one-piece injection molded acrylic, .09" minimum wall thickness. Perimeter is fully sealed with a one-piece molded silicone gasket, sealing the lens to the lens frame and electrical housing, for IP66 fixture rating

OPTICS

- Patent pending edge-lit, drop lens provides non-pixelated light for unprecedented visual comfort
- Four standard distributions: Type 5 Square, Type 5 Concentrated, Type 5 Rectangular and Type 4 Asymmetric

INSTALLATION

- Speed mount electro-zinc plated steel for mounting to standard 4" junction box or mud-box. Fixture hangs from hook to free both hands to make field wire connections. Allows tool-free fixture mounting to junction box, with integral anti-theft lock
- Direction arrow on mounting plate points in the direction of travel along the drive lane to insure luminaire is installed in the correct orientation

INSTALLATION (CONTINUED)

- Balanced pendant j-box and bird shroud are die-cast aluminum, pendant entry to balance fixture in free-swinging installation. Conduit pipe provided by others. The Kim Speed Mount is furnished for fixture attachment to the PB2. This option is shipped separate from fixture

ELECTRICAL

- 120V through 480V @ 50/60Hz
- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70
- 20kV surge suppression
- Thermal shield, dynamic thermal control
- -40°C starting driver
- 0–10V dimming interface
- Electronic components are UL and/or CSA listed
- 10% to 100% dimming by the use of standard 0–10V interface driver
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0–10V interface to bypass the thermal shield and control the driver
- The thermal shield works in conjunction with the control system to ensure that overheating will not harm the LEDs
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others)
- SF for 120, 277 and 347 line volts
- DF for 208, 240 and 480 line volts
- High temperature fuse holders factory installed inside the fixture housing. Fuse is included

RELATED PRODUCTS

[Ouro](#)

[Pavilion](#)

[PGL7](#)

CERTIFICATIONS AND LISTINGS

- UL 1598 Standard for wet locations for Luminaires
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products
- UL 924 Standard for Emergency Lighting and Power Equipment Listed
- CSA C22.2#250.0 Luminaires
- IP66 rated
- IK07 rated
- FCC Compliant - Compliance to Title 47 Part 15 Subpart B
- 50°C Ambient
- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. [See Buy American Solutions](#)

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	3671–13,860
Wattage Range	35–130
Efficacy Range (LPW)	72–125.6
Reported Life (Hours)	L70/60,000
Weight	19 lbs 8.6 kg

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: PGL8-5C-128L-65-3K7-UNV-GTT-NXOSW30F-EM

CATALOG #

HOUSING

PGL8													
Housing		Distribution		LED Engine		CCT/CRI ¹¹		Voltage		Color			
PGL8	Parking Garage Luminaire	5C	Type V Concentrated	<u>5C, 5Q & 5R Distributions Only</u>		AM ¹²	Monochromatic Amber	UNV	Universal 120–277V	BLS	Black Gloss Smooth	LGT	Light Grey Matte Textured
		5Q	Type V Square	128L-35	4500 lm	27K8 ¹⁰	2700, 80 CRI			BLT	Black Matte Textured	PSS	Platinum Silver Gloss Smooth
		5R	Type V Rectangular	128L-55	6000 lm	27K9 ¹⁰	2700, 90 CRI	347	347V				
		ASY	Asymmetric	128L-65	7500 lm	3K7	3000K, 70 CRI	480	480V	DBS	Dark Bronze Gloss Smooth	VGT	Verde Green Matte Textured
				128L-85	9500 lm	3K8	3000K, 80 CRI			DBT	Dark Bronze Matte Textured	WHS	White Gloss Smooth
				128L-110	11500 lm	3K9 ¹⁰	3000, 90 CRI			GTT	Graphite Matte Textured	WHT	White Matte Textured
				128L-130	13500 lm	35K8 ¹⁰	3500K, 80 CR						
				<u>ASY Distribution Only</u>		35K9 ¹⁰	3500K, 90 CR						
				64L-50	5000 lm	4K7	4000K, 70 CRI						
				64L-70	6500 lm	4K8	4000K, 80 CRI						
				64L-90	7500 lm	4K9	4000K, 90 CRI						
						5K7	5000K, 70 CRI						
						5K8 ¹⁰	5000K, 80 CRI						
						5K9 ¹⁰	5000K, 90 CRI						

Control Options		Options & Control Accessories	
<u>NX Standalone</u>		SF	Single Fuse 120, 277, 347 Line Volts
NXOS-12F ²	NX Distributed Intelligence™, PIR Occupancy Sensor, Daylight Harvesting, Up To 12' Mounting Height	DF	Double Fuse 208, 240, 480 Line Volts
NXSP-30F ²	NX Distributed Intelligence™, PIR Occupancy Sensor, Daylight Harvesting, Up To 30' Mounting Height	PB22 ⁸	Balanced Pendant J-Box and Bird Shroud
NXOS924-12F ³	NX Distributed Intelligence™, PIR Occupancy Sensor with UL924 Dimming Bypass Module for Controls Override, Up To 12' Mounting Height	PB21 ⁹	Balanced Pendant J-Box and Bird Shroud
NXSP924-30F ³	NX Distributed Intelligence™, PIR Occupancy Sensor with UL924 Dimming Bypass Module for Controls Override, Up To 30' Mounting Height	WM	Wall Mount
<u>NX Networked Wireless</u>		NU	No Uplight
NXWE ⁴	NX Distributed Intelligence™ Wireless Enabled (Module + Radio)	EM ⁵	Integral Battery Backup Unit (16Wh)
NXOSW-12F ⁴	NX Distributed Intelligence™ Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, Up To 12' Mounting Height	SCPREMOTE	Remote control for SCP option. Order at least one per project to program and control the occupancy sensor
NXSPW-30F ⁴	NX Distributed Intelligence™ Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, Up To 30' Mounting Height	Notes:	
NXWE924 ⁵	NX Distributed Intelligence™ Wireless Enabled with UL924 Dimming Bypass Module for Controls Override	1	Consult factory for custom color, marine and corrosive finish options
NXOSW924-12F ⁵	NX Distributed Intelligence™ Wireless, PIR Occupancy Sensor with UL924 Dimming Bypass Module for Controls Override Up To 12' Mounting Height	2	Not available with EM and 480V
NXSPW924-30F ⁵	NX Distributed Intelligence™ Wireless, PIR Occupancy Sensor with UL924 Dimming Bypass Module for Controls Override Up To 30' Mounting Height	3	Not available with EM and 128L-110/130 and 480V
<u>wiSCAPE® Wireless</u>		4	Not available with EM
WIR	Wireless Control, wiSCAPE®	5	Not available with all control options or 347/480V
WIRSC	wiSCAPE® + Occupancy Sensor	6	Not available with 347/480V
WIR924 ³	Wireless Control, wiSCAPE® with UL924 Dimming Bypass Module for Controls Override	7	Contact Factory
WIRSC924 ³	wiSCAPE® + Occupancy Sensor with UL924 Dimming Bypass Module for Controls Override	8	PB22: 128L-35, 128L-55, 128L-65, 128L-85, 64L-50, 64L-70, 64L-90
<u>Sensor Controls</u>		9	PB21: 128L-110, 128L-130
SCP-8F	Remote Control Programmable Line Voltage Sensor (8–12' Recommended Mounting Height), use with SCPREMOTE	10	5-step MacAdam Ellipse Binning is standard. Consult factory for 3-step MacAdam Ellipse Binning
SCP-20F	Remote Control Programmable Line Voltage Sensor (12–20' Recommended Mounting Height), use with SCPREMOTE	11	See Lumen Multiplier chart on Page 8 for lumen scaling factor. Consult factory for additional details.
SCP924-8F ³	Programmable Sensor with UL924 Dimming Bypass Module for Controls Override (8–12' Recommended Mounting Height)	12	Amber not available for the 128L-85, 128L-110, 128L-130, and 64L-90 configurations.
SCP924-20F ³	Programmable Sensor with UL924 Dimming Bypass Module for Controls Override (12–20' Recommended Mounting Height)	13	Not available in 480V
OCM ⁶	Microwave Occupancy Module (8-12' Recommended Mounting Height)		
LLCM ^{6,7}	Limelight radio and occupancy sensor module (8-15' recommended mounting height)		

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports both indoor and outdoor applications in a variety of deployment options- wired, wireless, hybrid.
Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.



NX Integrated Controls Reference									
NX OPTION	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming	COMMISSIONING
NX Stand Alone									
NXOS-12F	NXSMP-OMNI	No	Yes	Yes	Yes	Yes	Yes	Yes	On-site
NXSP-30F	NXSMP-HMO	No	Yes	Yes	Yes	Yes	Yes	Yes	On-site
NX Networked Wireless									
NXWE	N/A	Yes	Yes	No	No	Yes	Yes	No. See footnote	On-site
NXOSW-12F	NXSMP-OMNI	Yes	Yes	Yes	Yes	Yes	Yes	Yes, Bluetooth App	On-site
NXSPW-30F	NXSMP-HMO	Yes	Yes	Yes	Yes	Yes	Yes	Yes, Bluetooth App	On-site

- 1 Programming via App requires factory assistance
- 2 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

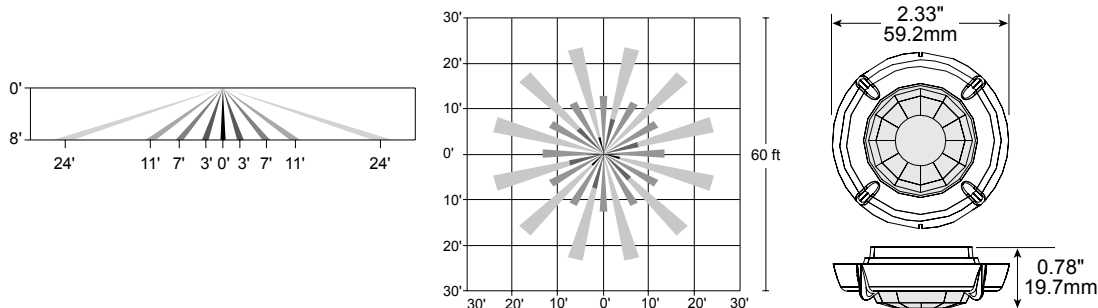
wiSCAPE™:

Supports remote management, monitoring and metering of outdoor wireless lighting applications such as smart campuses, smart cities, parking lots, parking lots and roadways.

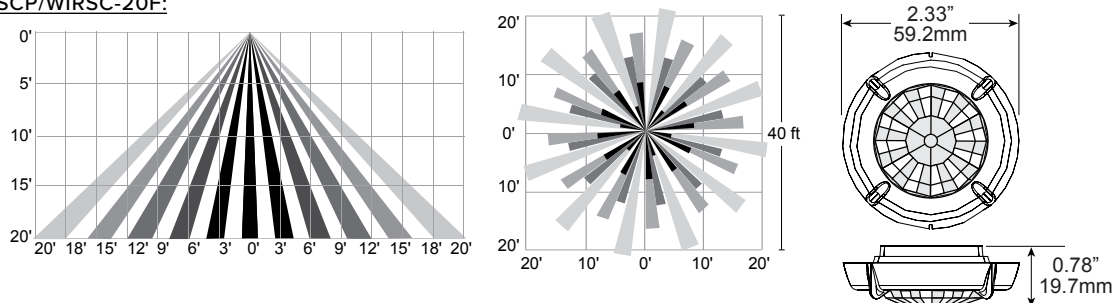


wiSCAPE Reference									
wiSCAPE Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth App Programming	Commissioning
Networked – Wireless									
WIR	WIR-RMI-IO	Yes	Yes	No	Yes	Yes	Yes	wiSCAPE Gateway	On-site
WIRSC	WIR-RMI-IO with Motion Sensor	Yes	Yes	Yes	Yes	Yes	Yes	wiSCAPE Gateway	On-site

SCP/WIRSC-8F:



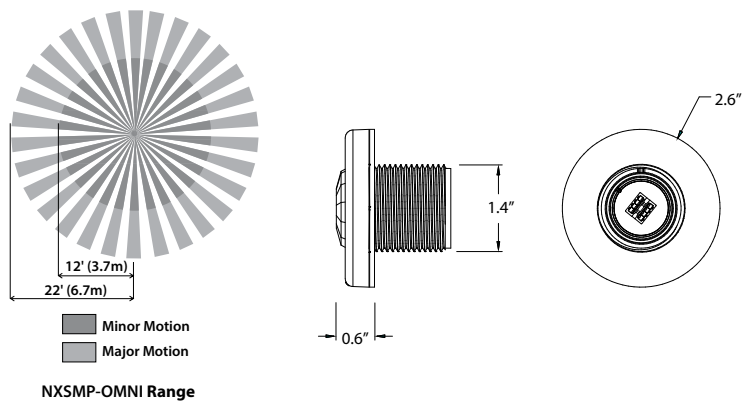
SCP/WIRSC-20F:



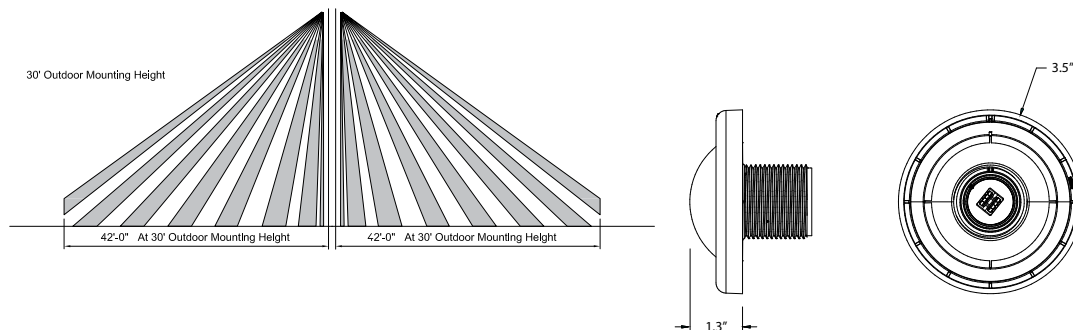
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TYPE:	PROJECT:
CATALOG #:	

CONTROLS CONTINUED

NXOS/NXOSW-12F:



NXSP/NXSPW-30F:

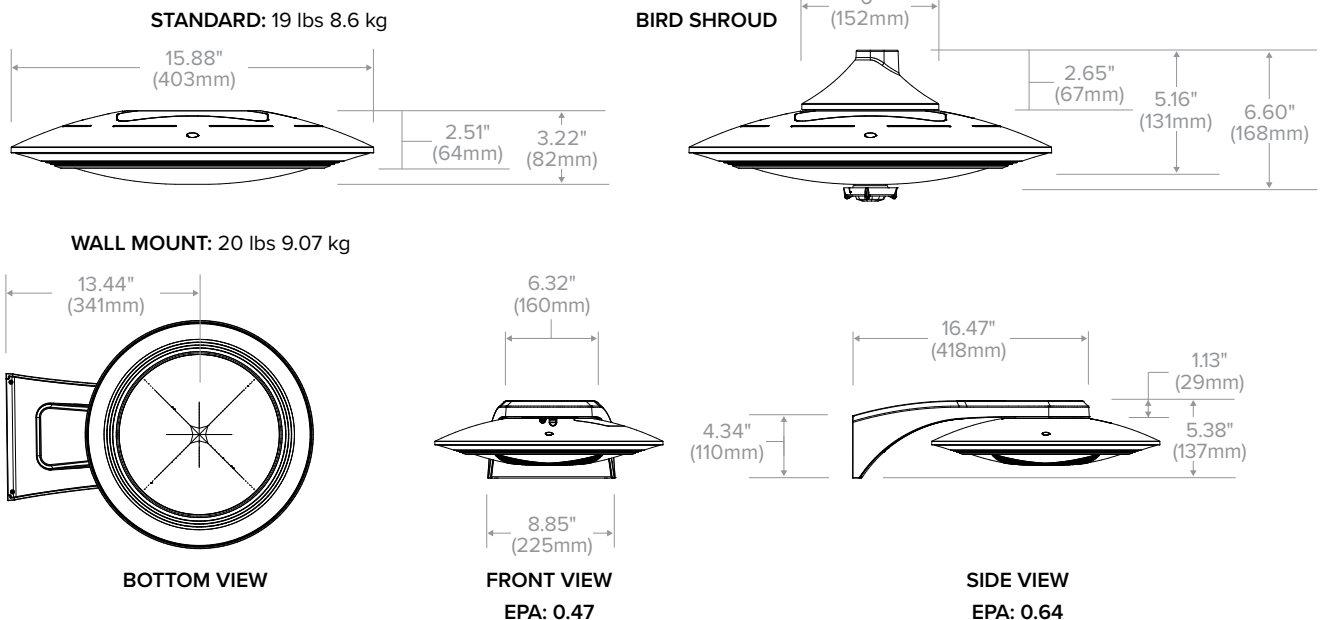


DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS

LEDs #	NW (Nominal Watts)	NL (Nominal Lumens)	Dist. (Distribution)	2700K 80CRI				3000K 70CRI				3500K 80CRI				4000K 70CRI				5000K 70CRI			
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G			B	U	G	
64L	50	4500	ASY	4216	1	3	3	83.8	4811	1	3	3	95.6	4482	1	3	3	89.1	4890	1	3	3	97.8
	70	6000	ASY	5509	2	3	3	80.2	6285	2	3	3	91.5	5856	2	3	3	85.2	6389	2	3	3	93.6
	90	7500	ASY	6379	2	3	3	72.0	7278	2	3	3	82.2	6781	2	3	3	76.5	7398	2	3	3	84.0
128L	35	4500	5Q	3821	2	3	2	102.1	4359	2	3	2	116.5	4061	2	3	2	108.5	4431	2	3	2	120.2
			5R	3671	2	3	1	98.1	4189	2	3	2	111.9	3903	2	3	1	104.3	4258	2	3	2	113.7
			5C	4021	2	3	1	107.4	4588	2	3	1	122.6	4274	2	3	1	114.2	4664	2	3	1	124.6
	55	6000	5Q	5343	3	3	2	99.8	6097	3	3	3	113.8	5680	3	3	2	106.1	6197	3	3	3	115.7
			5R	5246	2	3	2	98.0	5985	2	3	2	111.8	5576	2	3	2	104.1	6084	2	3	2	113.6
			5C	5637	2	3	1	105.3	6432	2	3	1	120.1	5992	2	3	1	111.9	6538	2	3	1	122.1
	65	7500	5Q	6596	3	3	3	100.6	7526	3	3	3	114.8	7012	3	3	3	106.9	7650	3	3	3	116.7
			5R	6476	2	3	2	98.7	7389	3	3	2	112.7	6884	3	3	2	105.0	7511	3	3	2	114.5
			5C	6959	2	3	1	106.1	7940	2	3	1	121.1	7397	2	3	1	112.8	8071	2	3	2	123.1
	85	9500	5Q	8204	3	3	3	97.0	9360	3	3	3	110.7	8721	3	3	3	103.1	9515	3	3	3	112.5
			5R	8054	3	3	2	95.2	9189	3	3	3	108.7	8562	3	3	2	101.3	9341	3	3	3	110.5
			5C	8655	2	3	2	102.4	9875	3	3	2	116.8	9200	2	3	2	108.8	10038	3	3	2	118.7
	110	11500	5Q	9873	3	3	3	88.5	11264	3	3	3	101.0	10495	3	3	3	94.1	11450	3	3	3	102.6
			5R	9692	3	3	3	86.9	11058	3	3	3	99.1	10303	3	3	3	92.4	11241	3	3	3	100.8
			5C	10415	3	3	2	93.4	11883	3	3	2	106.5	11071	3	3	2	99.2	12079	3	3	2	108.3
	130	13500	5Q	11259	3	3	3	85.4	12846	3	3	4	97.4	11969	3	3	3	90.7	13058	3	3	4	99.0
			5R	11054	3	3	3	83.8	12612	3	3	3	95.6	11750	3	3	3	89.1	12820	3	3	3	97.2
			5C	11878	3	3	2	90.1	13552	3	3	2	102.7	12626	3	3	2	95.7	13776	3	3	2	104.4

DIMENSIONS



PHOTOMETRY

PGL8-5C-128L-65-4K7

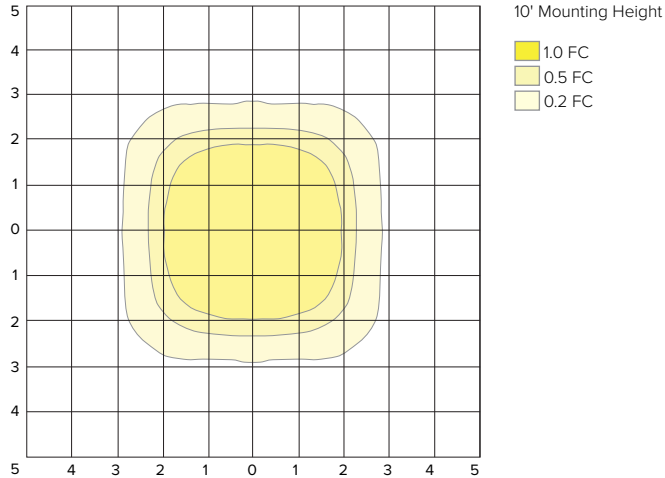
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8071
Watts	65.6
Efficacy	123.0
IES Type	VS
BUG Rating	B2-U3-G2
Mounting Height	10 ft
Grid Scale	10 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3920.50	49%
Downward House Side	3920.51	49%
Downward Total	7841.01	97%
Upward Street Side	115.73	1%
Upward House Side	115.73	1%
Upward Total	231.46	3%
Total Flux	8072	100%

ISOFOOT CANDLE PLOT



PGL8-5Q-128L-65-4K7

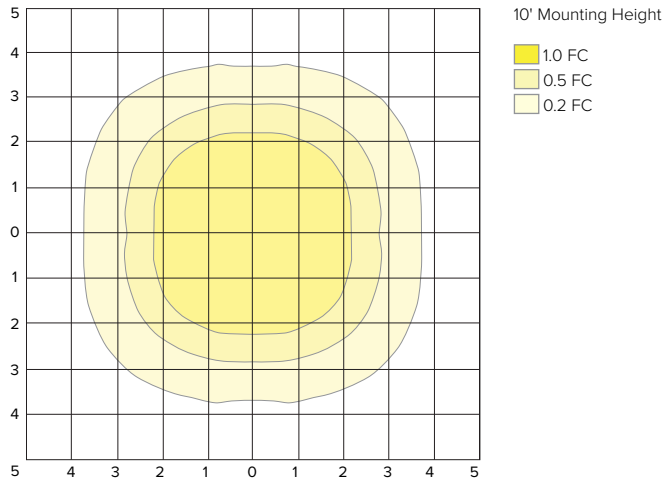
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	7650
Watts	65.58
Efficacy	116.7
IES Type	VS
BUG Rating	B3-U3-G3
Mounting Height	10 ft
Grid Scale	10 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3678.58	48%
Downward House Side	3678.59	48%
Downward Total	7357.17	96%
Upward Street Side	146.68	2%
Upward House Side	146.68	2%
Upward Total	293.36	4%
Total Flux	7651	100%

ISOFOOT CANDLE PLOT



PHOTOMETRY CONTINUED

PGL8-5R-128L-65-4K7

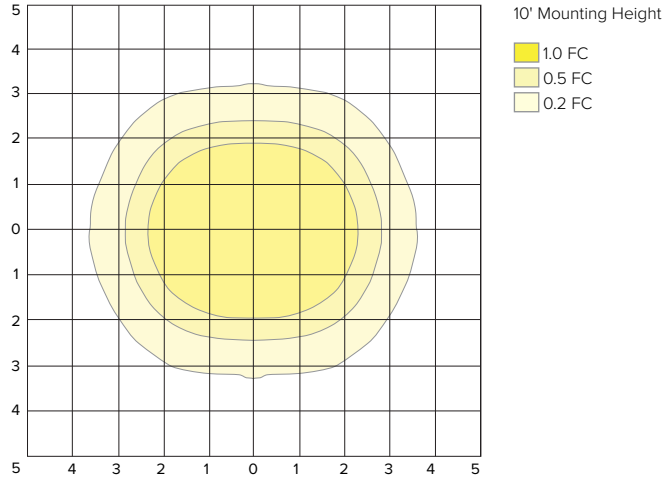
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	7511
Watts	65.6
Efficacy	114.5
IES Type	VS
BUG Rating	B3-U3-G2
Mounting Height	10 ft
Grid Scale	10 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	3628.24	48%
Downward House Side	3628.25	48%
Downward Total	7256.49	97%
Upward Street Side	127.68	2%
Upward House Side	127.68	2%
Upward Total	255.36	3%
Total Flux	7512	100%

ISOFOOT CANDLE PLOT



PGL8-ASY-64L-90-4K7

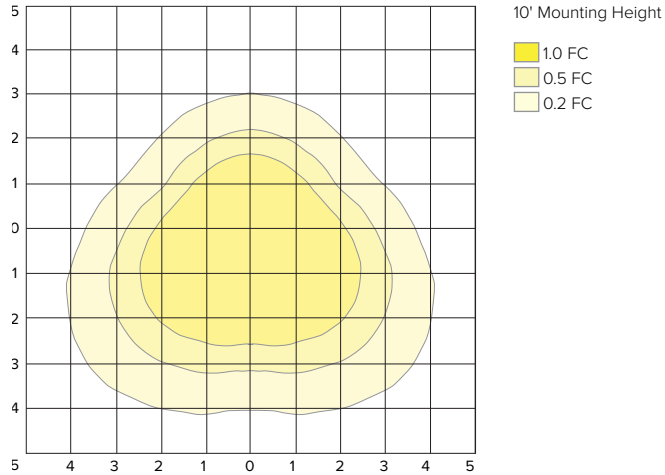
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	7398
Watts	88.59
Efficacy	83.5
IES Type	IV
BUG Rating	B2-U3-G3
Mounting Height	10 ft
Grid Scale	10 ft

ZONAL LUMEN SUMMARY

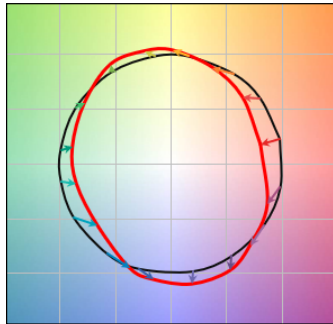
Zone	Lumens	% Luminaire
Downward Street Side	4817.00	65%
Downward House Side	2293.42	31%
Downward Total	7110.42	96%
Upward Street Side	147.77	2%
Upward House Side	140.83	2%
Upward Total	288.60	4%
Total Flux	7399	100%

ISOFOOT CANDLE PLOT



TM-30 DATA

COLOR VECTOR GRAPHIC

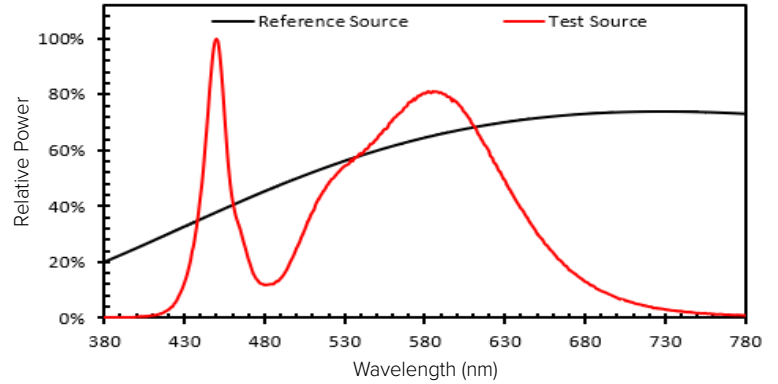


— Reference Illuminant — Test Source

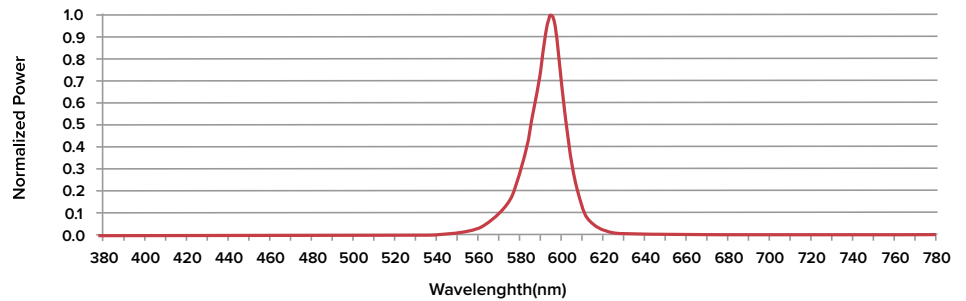
TEST SOURCE

R _f	72
R _g	93
CCT(K)	3982
D _{uv}	0.0014
x	0.3822
y	0.3808
CIE R _a	73

SPECTRAL POWER DISTRIBUTION COMPARISON



Spectral Power Distribution



ELECTRICAL DATA

ELECTRICAL												DIMMING					
LIGHT ENGINE	SYSTEM WATTS	DRIVE CURRENT	LINE VOLTAGE		AMPS AC						MIN. POWER FACTOR	MAX THD (%)	DIMMING RANGE	SOURCE CURRENT OUT OF 0-10V		ABSOLUTE VOLTAGE RANGE ON 0-10V (+)	
			VAC	HZ	120	208	240	277	347	480				MIN	MAX	MIN	MAX
64L	50.3	450 mA	120-480	50/60	0.42	0.24	0.21	0.18	0.15	0.10	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	68.7	610 mA			0.57	0.33	0.29	0.25	0.20	0.14							
	88.6	780 mA			0.74	0.43	0.37	0.32	0.26	0.18							
128L	37.4	350 mA			0.31	0.18	0.16	0.14	0.11	0.08							
	53.6	500 mA			0.45	0.26	0.22	0.19	0.15	0.11							
	65.6	625 mA			0.55	0.32	0.27	0.24	0.19	0.14							
	84.6	800 mA			0.70	0.41	0.35	0.31	0.24	0.18							
	111.6	510 mA			0.93	0.54	0.46	0.40	0.32	0.23							
	131.9	600 mA			1.10	0.63	0.55	0.48	0.38	0.27							

TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°C)

HOURS	0	25,000	36,000	50,000	100,000	REPORTED L70
Projected Lumen Maintenance	100%	94.0%	91.9%	89.3%	80.6%	> 60,000

CCT	Amber	80 CRI	90 CRI
AMBER	0.109		
2700K		0.857	0.733
3000K		0.887	0.775
3500K		0.911	0.803
4000K		0.928	0.825
5000K		0.933	0.851
Scaling factor of 5000K 70 CRI lumen packages			

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ADDITIONAL INFORMATION

LENS



5Q: Type V Square
ASY: Asymmetric



5C: Type V Concentrated



5R: Type V Rectangular

CONTROL OPTIONS SENSORS



Occupancy Sensor (NX & SCP)

OPTIONS



Balanced Pendant J-Box and
Bird Shroud (64L and 128L)



Arm Mount