



FSPG

Fidelux Smart Parking Garage Sensor Series

DIM TO OFF

12-24V
AUXILIARY POWER

Product Description

Fidelux takes the lead in the industry with FSPG Smart Parking Garage fixtures, designed to deliver a wide beam spread and uniform, low-glare illumination. The FSPG Series improves safety and delivers excellent performance with low energy consumption to deliver exceptional payback.

Industry-leading premium drivers feature dim-to-off functionality and a 12-24V auxiliary output, allowing easy and rapid integration of your controls.

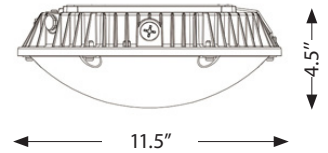
The S2 sensor has a maximum detection radius of up over 25 feet with standard mounting heights of up to 40 feet. It features both occupancy and daylight monitoring with step dimming. This allows the user to program on/off/dim operation based on both ambient light and occupancy, providing greater energy efficient operation.

S2 Sensors can link up to 15 wired units up to 100 feet. Contact factory for wireless linking.

The Fidelux FSPG Series provides years of reliable operation in environments requiring protection from dust and liquids

Dimensions

3/4" Threaded top KO



Features and Benefits

- Up to 150 lm/W
- Rugged finish resists tough environments and corrosion
- 10kVA Surge protection standard
- Dim-to-off driver
- Driver features 12-24V auxiliary output
- Uniform bat-wing distribution
- Excellent thermal management
- Internal bi-level microwave sensor (S2RC Remote required for field programming)
- 5 Year warranty

Mounting

- Surface (standard, includes mounting plate)
- Surface with side wiring
- Pendant

Construction

- ADC12 Die-cast aluminum housing
- TGIC powder coating
- High impact PC lens

Listings

- UL Wet Location
- DLC Premium

S2 Sensor Features

- Occupancy and Daylight monitoring
- Daylight sensing
- Bi-level dimming
- Motion sensor max radius over 25 feet
- Standard mounting heights up to 40 feet
- IR remote programming and testing via the S2RC handheld remote (S2RC Remote required for field programming)

Factory default sensor settings

Brightness 100%; Sensitivity: 100%; Daylight Sensing: Disable; Hold Time: 5s; Standby time: +∞; Standby dimming level: 30%
S2 Sensors are only field programmable via the S2RC Handheld Remote Control.



Products featuring the **Auxiliary Power** badge allow wide flexibility in choice of your controls.

FSPG Series Product Ordering Guide

Example: FSPG-40W-50K-S2 WH-SW6

			S2		
Series	CCT	Voltage	Dimming / Controls		Mounting
FSPG-25W (25W)	40K (4000K)	120-277V STD	0-10V Dim-to-off STD	White STD	Surface Mount Plate STD
FSPG-40W (40W)	50K (5000K)		S2 (12-24V microwave occupancy sensor w/bi-level step dim & daylight harvesting. <i>Factory and S2RC programming only.</i>) See Default Settings		Pendant Mount STD (3/4" Threaded KO for Rigid Pipe /Pendant Mount on back center. Comes standard with 12" cables.)
FSPG-60W (60W)			S2RC (Handheld remote control for programming and commissioning the S2 sensor only.) <i>Order as separate line item</i>		SW6 (6ft 14/2 SJ cord with weather proof connector from 1/2" KO from side of fixture) <i>Consult Factory</i>
FSPG-65W (65W)					

FSPG Series Performance Summary

	FSPG-25W	FSPG-40W	FSPG-60W	FSPG-65W
Efficacy lm/W @5000K	139.3	139.9	139.7	149.7
Lumens @4000K	3556	5732	8629	9998
Lumens @5000K	3564	5737	8644	10,000
CRI	83	83	83	84
Power Factor @ 5000K	>0.90			
THD @ 120VAC	<15.0%			
CCT/Kelvin Temp Options	40K / 50K			
Voltage	100-277VAC			
Driver	Dim-to-off / 12-24V aux output			
Dimming	0-10V			
Listings/Qualifications	UL, DLC 4.4 Premium, Integral controls, Continuous Below ≤10%			
L70 Lifespan	100,000 Hours			
Ambient Working Temp	-40°F to 104°F (-40°C to +40°C)			
Weight	6.6 lbs			
Max Dimensions (in)	11.4" round x 4.5" height			
Limited Warranty	5 Years			

Electrical Summary

120-277V LED 0-10V dimmable single internal Class P driver; power factor @5000K is >0.9. Driver features 12-24V auxiliary output. Dim-to-off functionality. Driver secured to ADC12 aluminum frame for optimized cooling and extended operating life. Drive current: 25W: 500mA; 40W: 820mA; 60W: 1250mA; 65W: 1380mA. Electrical components designed for operation in ambient temperatures of -40°F to 104°F (-40°C to +40°C).

SENSOR: 120/277VAC input voltage. Output: Operating mode ON/OFF 0-10V. Load power 3A (Inductive) @120VAC; 3A (Resistive) @277VAC. Stand-by power ≤0.5W. 0-10V Dimming. HF Operating frequency 5.8 GHz ±75 MHz, ISM Wave Band. HF Radiated power 0.5mW Max.

Auxiliary Power



The industry-leading premium drivers included in the FSPG series feature dim-to-off functionality and a 12-24V auxiliary output, allowing easy and rapid integration of your controls.

DLC QPL Product Identification

Configuration	Product ID
FSPG-25W-40K	PLILMKJ4PWER
FSPG-25W-50K	PLZGXHCWKEBL
FSPG-40W-40K	PL4U8SJXY3QN
FSPG-40W-50K	PLKX9H1FP8N7
FSPG-60W-40K	PL2MZZ2897MZ
FSPG-60W-50K	PL1MCRD018VT
FSPG-65W-40K	PLF67RX9UPOC
FSPG-65W-50K	PLOILM615ALX

S2 Microwave Low Voltage Programmable Bi-Level/ Step Dimming Occupancy Sensor



The S2 default settings are optimized at the factory for "always-on" operation and are only adjustable via custom factory defaults and the S2RC Remote Control. Contact factory for customized default settings.

S2RC Handheld Remote



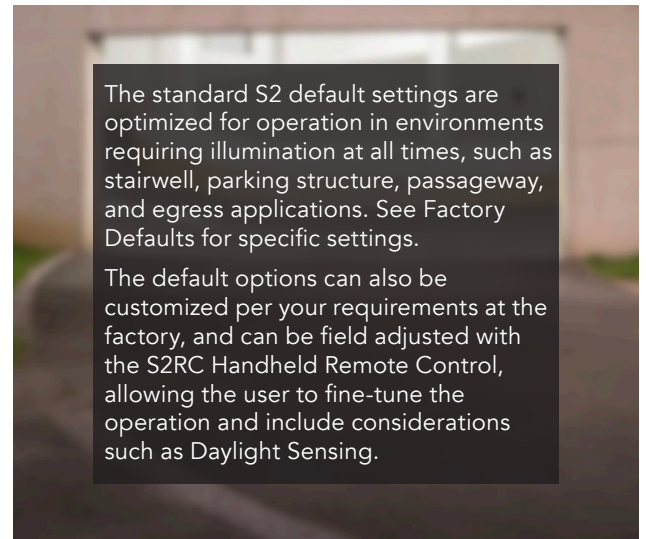
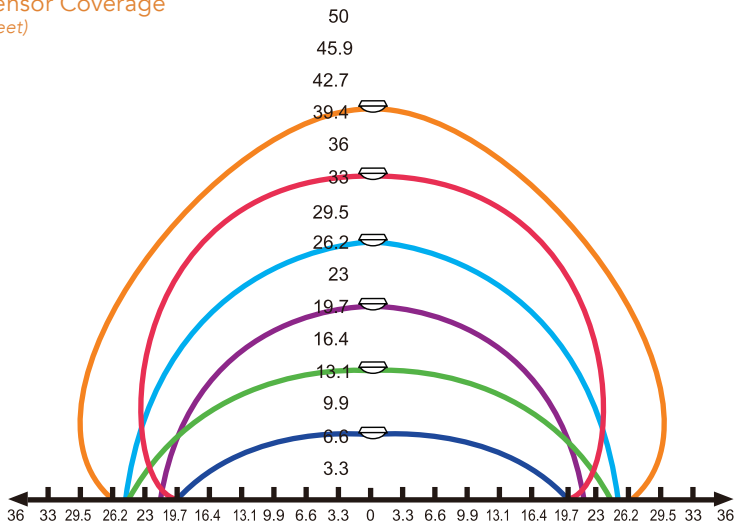
The S2RC Hand-Held Remote provides easy and wireless sensor programming and testing.
Note: not all functions/settings on remote may be compatible with all sensors/luminaires

S2 Sensor Operation and Configurability

The bi-level S2 Sensor is designed to provide excellent performance out of the box. The S2 is field programmable with the S2RC Remote Control, allowing the user to adjust brightness, sensitivity, daylight threshold, hold time, standby time, and standby dimming level.

These features enable a dynamic, highly energy-efficient means to create a well-lit and safe environment throughout a very wide range of applications.

Sensor Coverage (Feet)



Factory Defaults

- Brightness 100%
- Sensitivity: 100%
- Daylight Sensing: Disable
- Hold Time: 5s
- Standby time: +∞
- Standby dimming level: 30%

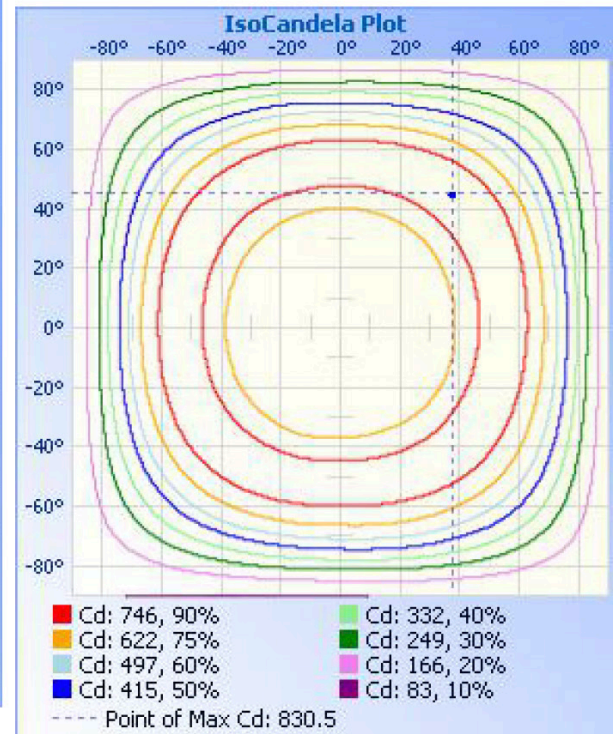
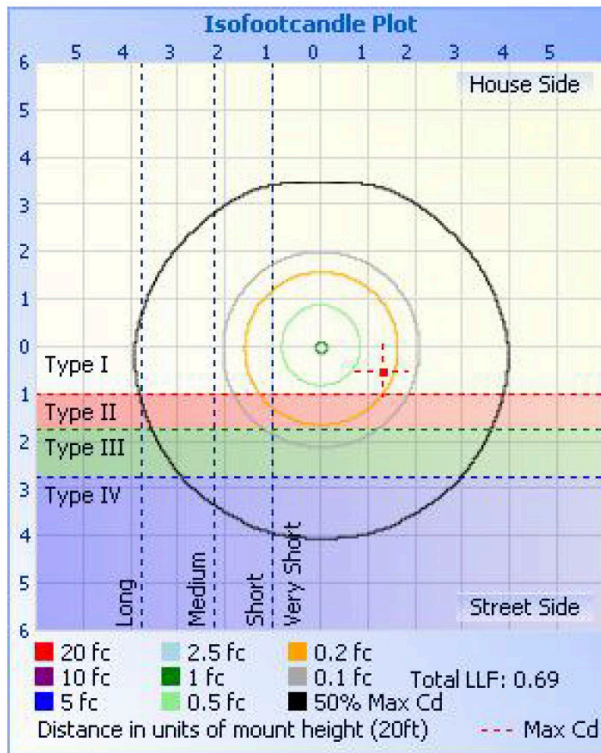
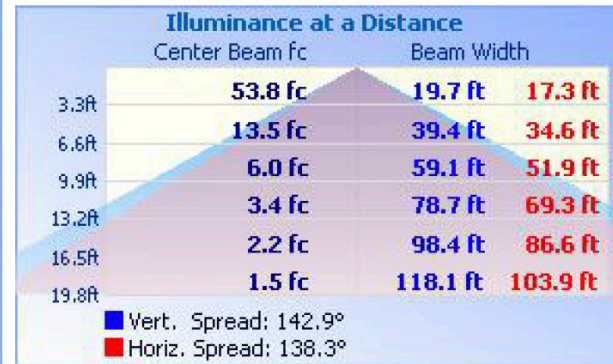
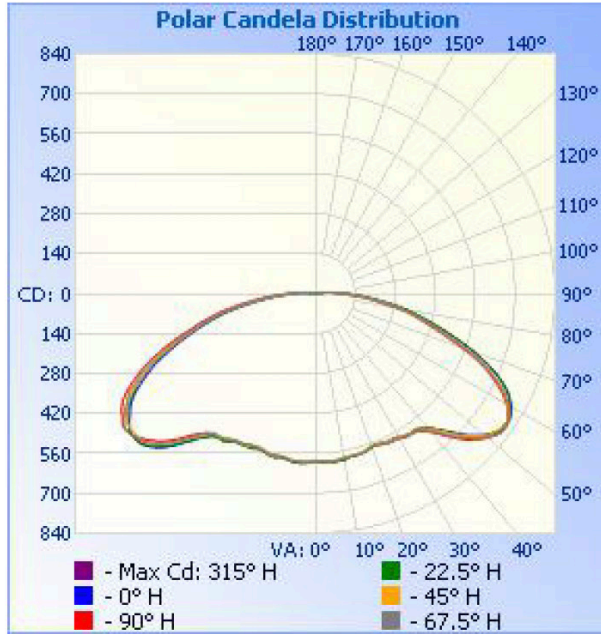
Available Settings

- Brightness: 100%, Off, 10%, 30%, 50%
- Sensitivity: 20%, 50%, 75%, 100%
- Daylight Sensing (lux): Disabled, 10, 30, 50
- Hold time: 30s, 90s, 5m, 10m, 30m
- Standby time: 10s, 5m, 10m, 1h, Infinite
- Standby dimming level: 0%, 10%, 30%, 50%

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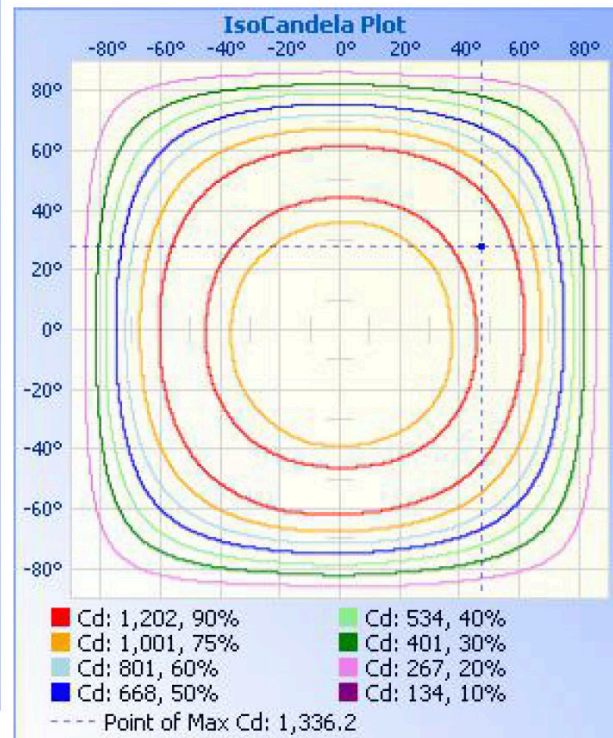
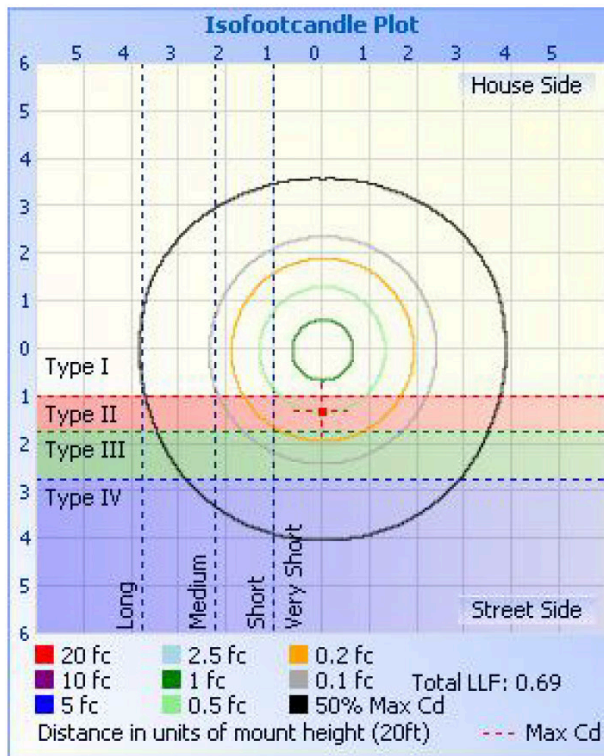
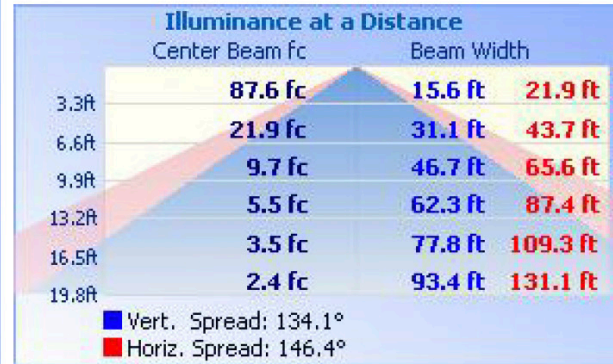
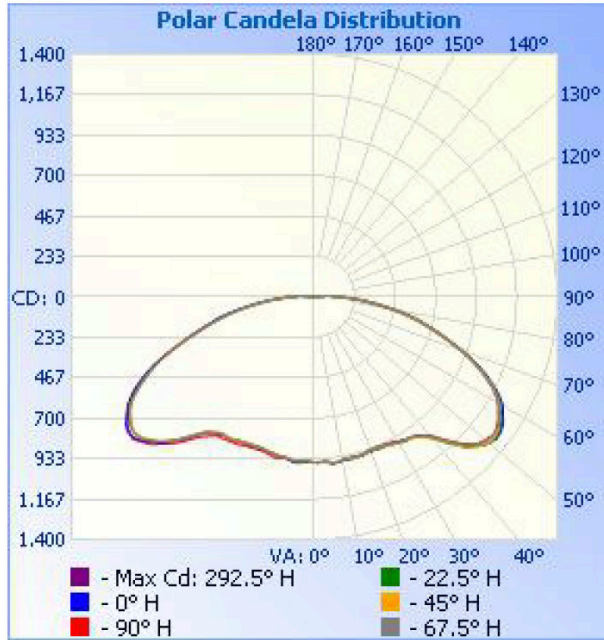
FSPG Series Photometry

25W 4000K



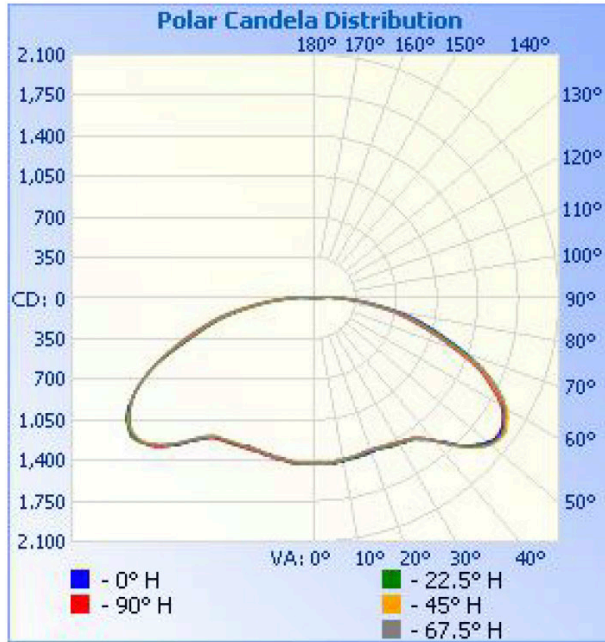
FSPG Series Photometry

40W 4000K



FSPG Series Photometry

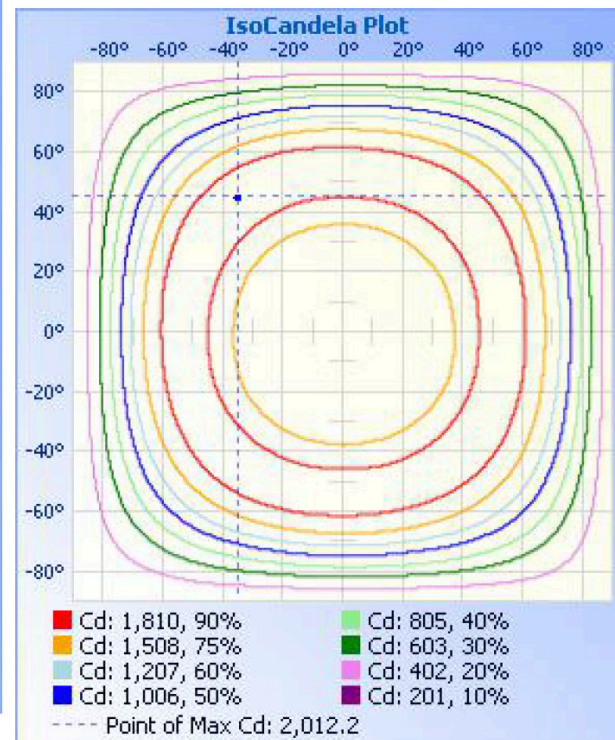
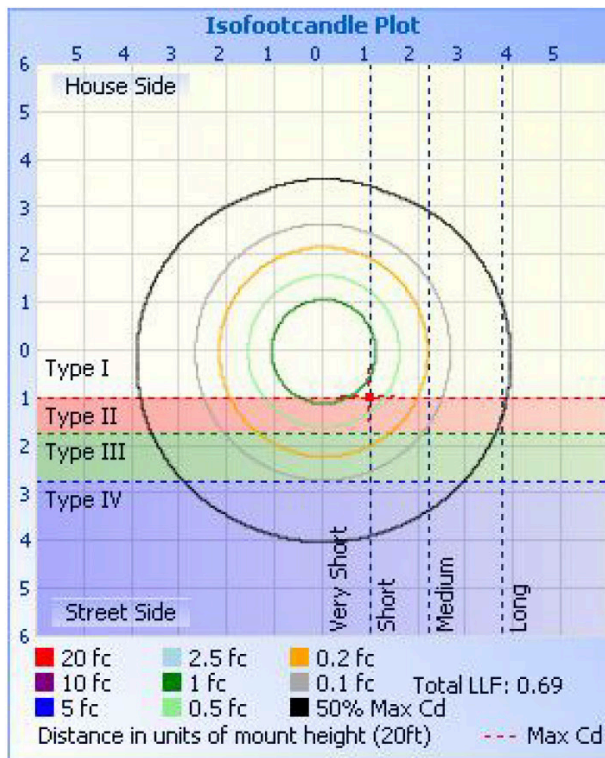
60W 4000K



Illuminance at a Distance

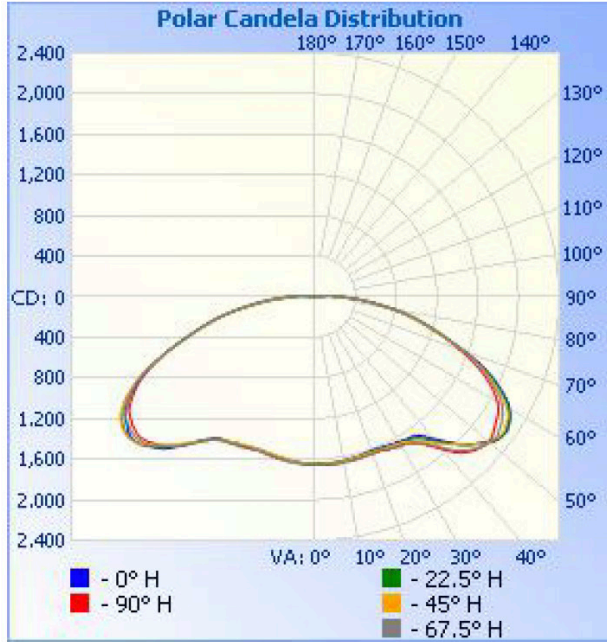
	Center Beam fc	Beam Width	
3.3ft	130.7 fc	19.4 ft	17.0 ft
6.6ft	32.7 fc	38.9 ft	34.0 ft
9.9ft	14.5 fc	58.3 ft	51.0 ft
13.2ft	8.2 fc	77.7 ft	68.0 ft
16.5ft	5.2 fc	97.2 ft	85.0 ft
19.8ft	3.6 fc	116.6 ft	102.0 ft

■ Vert. Spread: 142.5°
■ Horiz. Spread: 137.6°



FSPG Series Photometry

65W 400K



Illuminance at a Distance

Center Beam fc	Beam Width	
3.3ft	151.1 fc	25.2 ft 13.5 ft
6.6ft	37.8 fc	50.4 ft 27.1 ft
9.9ft	16.8 fc	75.6 ft 40.6 ft
13.2ft	9.4 fc	100.7 ft 54.1 ft
16.5ft	6.0 fc	125.9 ft 67.7 ft
19.8ft	4.2 fc	151.1 ft 81.2 ft

■ Vert. Spread: 150.6°
■ Horiz. Spread: 128.0°

