#### **Product Description**

Cree Lighting innovates again to reset the performance benchmark in parking garage applications with the IG Series featuring WaveMax® Technology, our innovative optical waveguide platform. Available in 33 watt and 66 watt, two lumen packages are offered to satisfy IESNA RP-20-14 Basic and IESNA Security Zone G-1-03 requirements for environments seeking higher light levels for improved safety and security. The streamlined design breaks away from dated traditional designs, blending form and function, to deliver superior low-glare illumination.

For enhanced performance and versatility, a range of optional integrated lighting controllers bring advanced capabilities and energy savings to the IG Series. From the stand-alone multi-level PML option to the full-featured Synapse® Wireless Controller, the IG Series provides the features and flexibility designed to meet the needs of today's most demanding parking garage applications. Applications: Parking garages

# **Performance Summary**

Utilizes WaveMax® Technology

Initial Delivered Lumens: 3,430 - 7,500 lumens

Input Power: 33 or 66 watts Efficacy: Up to 118 LPW

Optic: Type V Short Distribution

Assembled in the USA of U.S. and imported parts

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

CRI: Minimum 80 CRI

Limited Warranty<sup>†</sup>: 10 years on luminaire/5 years on ENC, PML, SWC, SWC-NS, and Synapse wireless control accessories/1 year on luminaire accessories

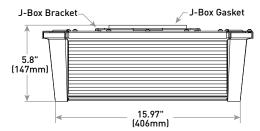
# **Ordering Information**

Fully assembled luminaire is composed of two components that must be ordered separately: Example: Mount: IG-JBWH + Luminaire: IG-NM-5S-A-40K-UL-WH

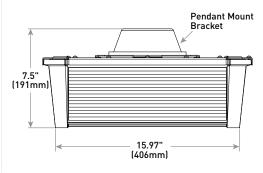
Mount (Luminaire must be ordered separately)				
IG-	WH			
IG-JB Junction Box IG-PD Pendant	Color Options: WH White			



#### JB Mount



### **PD Mount**



Weight	
10 lbs. (4.5kg)	

Luminai	Luminaire (Mount must be ordered separately)										
IG	NM	5S				WH					
Product	Mounting	Optic	Input Power Designator	сст	Voltage	Color	Options				
IG	NM No Mount	55 Type V Short	A 33W J 66W	30K 3000K 40K 4000K 57K 5700K	UL 120-277V 34 347V	WH White	PML Programmable Multi-Level  - Uses built-in occupancy sensing and field-adjustable ambient light sensitivity to independently control the light output of each luminaire  - Refer to PML spec sheet for details  - Not available with ENC or SWC options  - XA-SENSREM hand-held remote required (see Accessory table on page 2)  ENC ENCELIUM® Enabled  - Available with J input power designator only  - Not available with 34 voltage or PML or SWC options  - Factory-installed OSRAM ENCELIUM®  EN-WCM-ZBDR module  - Commissioning and services by others  - Refer to www.encelium.com for additional information  - Power consumption increases by 1W	SWC Synapse® Wireless Controller  - Provides real-time lighting control with utility-grade power monitoring (+/-2%)  - Uses a highly reliable SimplySNAP mesh network  - SimplySNAP Gateway is required (see Accessory table on page 2)  - Not available with 34 voltage or ENC or PML options  SWC-NS Synapse® Wireless Controller with Network Sensor  - Adds customizable sensor for motion or ambient light detection with use of Daylight Harvesting Accessory (see Accessory table on page 2)  - Sensor configured for motion sensing as factory default - SimplySNAP Gateway is required (see Accessory table on page 2)  - Not available with 34 voltage or ENC or PML options			











See http://creelighting.com/warranty for warranty terms

#### Product Specifications

#### **WAVEMAX® TECHNOLOGY**

Featuring up to 90% optical efficiency and precise control, WaveMax® Technology provides unmatched comfort and decreased LED source luminance by smoothly spreading brightness over a broader area. When integrated with luminous surfaces made of a polymer medium engineered with DiamondFacet™ optical elements, extremely high efficacy luminaires are the result – ultimately creating more visually comfortable and appealing environments while exceeding illumination performance.

#### SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The integrated Synapse® Wireless Controller (SWC) and Wireless Controller with Network Sensor (SWC-NS) take the IG Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

#### **CONSTRUCTION & MATERIALS**

- · Impact resistant white polycarbonate housing and acrylic lenses
- Corrosion resistant anodized aluminum top plate
- Low profile, lightweight design provides ease of installation
- Standard luminaire can mount to both pendant or J-box (specify mount in ordering table above)
- J-Box mounting bracket mounts directly over existing 4" (102mm) square, rectangular or octagonal junction boxes only
- Pendant mount includes 6" (152mm) wires out of luminaire and provides a splice location for mounting to 3/4" IP pendant (by others)
- Weight: 10 lbs. (4.5kg)

#### OPTICAL SYSTEM

- WaveMax® Technology that improves optical control, optical efficiency, energy efficiency and the overall visual experience
- Acrylic Lenses with DiamondFacet  $^{\text{TM}}$  Microlenses
- Unmatched low-glare comfort and decreased LED source luminance by smoothly spreading brightness over the optical lenses
- 6% Uplight
- <15% (vs DLC's 25% maximum requirement) of the total lumens fall in the 70-80° zone, reducing high angle brightness while providing superior vertical illumination
- Provides up to twice the vertical illumination recommended in RP-20-14

#### **ELECTRICAL SYSTEM**

- Input Voltage: 120-277V or 347V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Input Power: Stays constant over life
- Operating Temperature Range: -40°C + 40°C (-40°F + 104°F)
- Designed with 0-10V dimming capabilities standard. Controls by others
- Integral 6kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

#### **REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Suitable for operation in ambient not exceeding 40°C (104°F)
- Requires minimum 90°C supply conductors for 120-277V models
- Requires minimum 75°C supply conductors for 347V models
- Enclosure rated IP66 per IEC 60598
- ANSI C136.2 6kV surge protection, tested in accordance with IEEE/ANSI
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- Luminaires with SWC/SWC-NS options meet FCC Part 15, Subpart C limits for conducted and radiated emissions
- · Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Please refer to https://www.designlights.org/search/ for most current information
- RoHS compliant. Consult factory for additional details
- CA RESIDENTS WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

Electrical Data*								
	_	_	Total Curi	ent (A)				
Input Power Designator	System Watts 120-277V	System Watts 347V	120V	208V	240V	277V	347V	
А	33	35	0.28	0.17	0.15	0.13	0.11	
J	66	69	0.57	0.33	0.28	0.25	0.20	

<sup>\*</sup> Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347V +/- 10%

IG Series An	IG Series Ambient Adjusted Lumen Maintenance <sup>1</sup>								
Ambient	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Estimated <sup>3</sup> LMF	75K hr Estimated³ LMF	100K hr Estimated <sup>3</sup> LMF				
0°C (32°F)	1.04	1.04	1.04	1.04	1.04				
5°C (41°F)	1.03	1.03	1.03	1.03	1.03				
10°C (50°F)	1.02	1.02	1.02	1.02	1.02				
15°C (59°F)	1.02	1.02	1.02	1.02	1.02				
20°C (68°F)	1.01	1.01	1.01	1.01	1.01				
25°C (77°F)	1.00	1.00	1.00	1.00	1.00				
30°C (86°F)	0.99	0.99	0.99	0.99	0.99				
35°C (95°F)	0.98	0.98	0.98	0.98	0.98				
40°C (104°F)	0.98	0.98	0.98	0.98	0.98				

<sup>1</sup>Lumen maintenance values at 4000K and 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.

#### **Accessories**

# Field-Installed

#### Hand-Held Remote XA-SENSREM

For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

# Snap-On Side Light Shield

IG-SLS

- Clear anodized aluminum construction
- IES files available at

# **Synapse Wireless Control Accessories**

#### SimplySNAP On-Site Controller

SS450-002

Verizon<sup>®</sup> LTE-enabled
 Designed for indoor applications

Building Management System (BMS) Gateway

BMS-GW

Required for BACNET integration Daylight Harvesting Kit KIT-SBOX-DLH

Required for Title 24 compliance

- Order one shield per side as needed

http://creelighting.com/products/outdoor/parkingstructure/ig-series

#### Outdoor Antennas (Optional, for increased range, 8dB gain) KIT-ANT420SM

- Kit includes antenna, 20' cable and bracket KIT-ANT360
- Kit includes antenna, 30' cable and bracket
- Kit includes antenna, 50' cable and bracket





Canada: creelighting-canada.com T (800) 473-1234

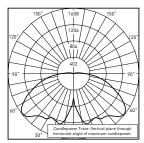
<sup>&</sup>lt;sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

<sup>&</sup>lt;sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

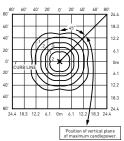
#### **Photometry**

All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/parking-structure/ig-series

#### 55



RESTL Test Report #: PL09173-002B IG-\*\*-5S-J-30K-UL Initial Delivered Lumens: 6,923

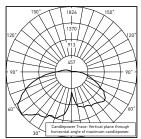


IG-\*\*-5S-J-40K-UL Mounting Height: 15' (4.6m) A.F.G. Initial Delivered Lumens: 7,500 Initial FC at grade

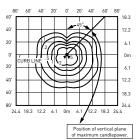
Type V Short Distribution										
	3000K		4000K		5700K					
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11				
А	3,430	B2 U3 G1	3,910	B2 U3 G2	3,910	B2 U3 G2				
J	6,930	B3 U3 G2	7,500	B3 U3 G2	7,500	B3 U3 G2				

<sup>\*</sup> Initial delivered lumens at 25  $^{\circ}$ C (77  $^{\circ}$ F). Actual production yield may vary between -10 and +10% of initial delivered lumens \* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

#### 5S w/IG-SLS ACCESSORY



CESTL Test Report #: PL12228-002C -5S-J-40K-UL w/Single IG-SLS Initial Delivered Lumens: 6,540



IG-\*\*-5S-J-40K-UL w/Single IG-SLS Mounting Height: 15' (4.6m) A.F.G. Initial Delivered Lumens: 6,750 Initial FC at grade

Note: For IES files for this and additional shielding configurations, please visit <a href="http://creelighting.com/products/outdoor/parking-structure/ig-series">http://creelighting.com/products/outdoor/parking-structure/ig-series</a>

Input Power Designator		3000K		4000K		5700K	5700K	
	Shield(s)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	
	Single	3,087	B2 U3 G2	3,519	B2 U3 G2	3,519	B2 U3 G2	
	Two Opposite	2,710	B1 U3 G1	3,089	B1 U3 G1	3,089	B1 U3 G1	
A	Two Adjacent	2,710	B2 U3 G2	3,089	B2 U3 G2	3,089	B2 U3 G2	
	Three	2,264	B1 U3 G1	2,581	B1 U3 G1	2,581	B1 U3 G1	
	Four	1,784	B1 U1 G1	2,033	B1 U1 G1	2,033	B1 U1 G1	
	Single	6,237	B3 U3 G3	6,750	B3 U3 G3	6,750	B3 U3 G3	
	Two Opposite	5,475	B2 U3 G2	5,925	B2 U3 G2	5,925	B2 U3 G2	
J	Two Adjacent	5,475	B3 U3 G3	5,925	B3 U3 G3	5,925	B3 U3 G3	
	Three	4,574	B2 U3 G2	4,950	B2 U3 G2	4,950	B2 U3 G2	
	Four	3,604	B1 U1 G1	3,900	B2 U1 G1	3,900	B2 U1 G1	

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<sup>\*</sup> Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <a href="https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf">https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf</a>