IG Series

LED Parking Garage Luminaire

Product Description

Cree 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 RP20-14 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.

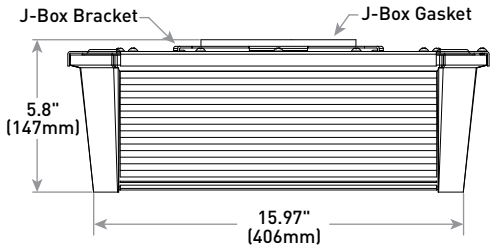
Applications: Parking garages

Performance Summary

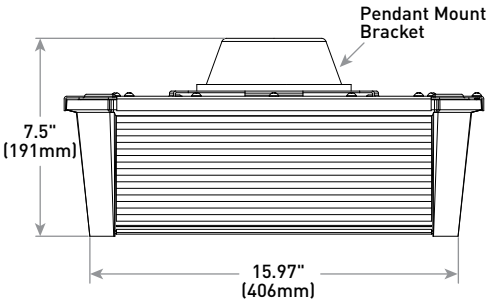
- Utilizes Cree WaveMax® Technology
- **Initial Delivered Lumens:** 3,430 - 7,500 lumens
- **Input Power:** 33 or 66 watts
- **Efficacy:** Up to 118 LPW
- **Optic:** Type V Short Distribution
- Assembled in the USA of U.S. and imported parts
- **CCT:** 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)
- **CRI:** Minimum 80 CRI
- **Limited Warranty†:** 10 years on luminaire

† See http://lighting.cree.com/warranty for warranty terms

JB Mount



PD Mount



Weight
10 lbs. (4.5kg)

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

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

Luminaire (Mount must be ordered separately)							
IG	**NM**	**5S**				**WH**	
Product	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color**	**Options**
IG	**NM** No Mount	**5S** Type V Short	**A** 33W **J** 66W	**30K** 3000K **40K** 4000K **57K** 5700K	**UL** 120-277V **34** 347V	**WH** White	**PML Programmable Multi-Level** - Refer to PML spec sheet for details

Rev. Date: V9 03/22/2017

US: lighting.cree.com T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

Product Specifications

CREE WAVEMAX® TECHNOLOGY

Featuring up to 90% optical efficiency and precise control, Cree 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.

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™ Microlenses
- Unmatched low-glare comfort and decreased LED source luminance by smoothly spreading brightness over the optical lenses
- 6% Uplight

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 (Non-PML versions only)
- 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
- Enclosure rated IP66 per IEC 60529
- 6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Meets Buy American requirements within ARRA
- DLC and DLC Premium qualified versions available. Please refer to www.designlights.org/QPL for most current information
- RoHS compliant. Consult factory for additional details

Electrical Data*

Input Power Designator	System Watts 120-277V	System Watts 347V	Total Current (A)				
			120V	208V	240V	277V	347V
A	33	35	0.29	0.17	0.15	0.13	0.11
J	66	69	0.57	0.33	0.28	0.25	0.20

* Electrical data at 25˚C (77˚F). Actual wattage may differ by +/- 10% when operating between 120-347V +/- 10%

Recommended IG Series Lumen Maintenance Factors (LMF)[1]

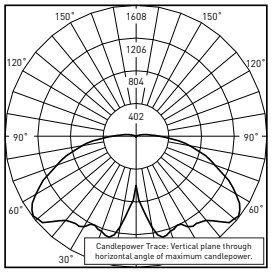
Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Calculated[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
0˚C (32˚F)	1.04	1.04	1.04	1.04	1.04
5˚C (41˚F)	1.03	1.03	1.03	1.03	1.03
10˚C (50˚F)	1.02	1.02	1.02	1.02	1.02
15˚C (59˚F)	1.02	1.02	1.02	1.02	1.02
20˚C (68˚F)	1.01	1.01	1.01	1.01	1.01
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

[1] Lumen maintenance values at 4000K and 25˚C (77˚F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)

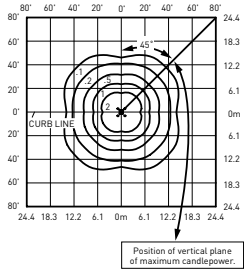
Photometry

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

5S



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

Input Power Designator	3000K		4000K		5700K	
	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
A	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

* 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: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

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