Product Data Sheet

Outdoor Lens

Outdoor Lighting Solution

WICOP _ Flood Light Lens

SMJL-1FGG55AA-XX01 (60D Lens)



Product Brief

Description

- 60D Single Lens designed for Flood
 Lighting
- Suitable for WICOP Module Cell 3030---Y19, Y22, 4in1 Y11
- Lens has high precision, non-spherical surface and optical level material

Features and Benefits

- High efficiency
- Good beam distribution
- Uniform light spot
- RoHS compliant

Key Applications

Flood Lighting

Material

- PMMA
- Efficiency: 96%

Dimensions

• L(mm)*W(mm)*H(mm): 19.0*16.0*6.2

Beam Angle

60 Degree

Installation

With holder

Table 1. Product Selection (Order Code Table)

Part No.	SAP Code	Material	Efficiency	Beam Type	Size(mm)
SLJQ-1T2S7H7VPMB-XX	1011565	PMMA	96%	60D	19.0*16.0*6.2

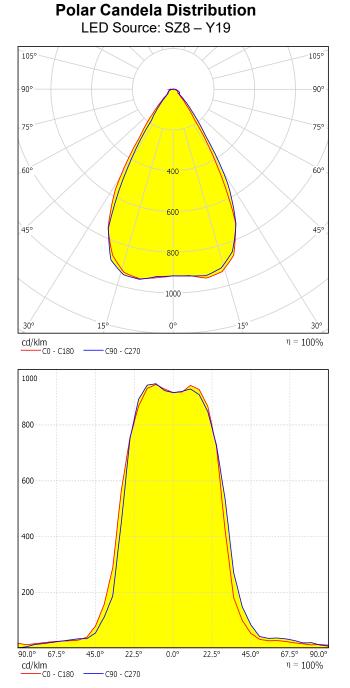
Suitable Leds	ССТ	CRI	View Angle (Degree)	LES(mm)	Certificate
WICOP SZ8 Y19	2600~7000	70~90	140	1.8*1.8*0.4	LM80
WICOP SZ8 Y22	2600~7000	70~90	140	2.2*2.2*0.4	LM80
WICOP SZ8 Y11-4in1	2600~7000	70~90	150	2.78*2.78*0.45	LM80



Outdoor Lens

Optical Characteristics

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Photometric Characteristics

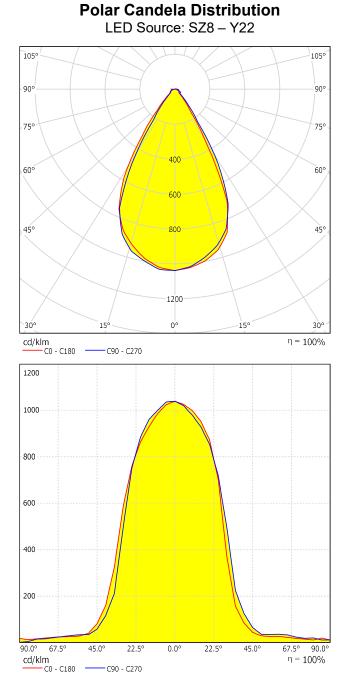
Characteristics	Properties
NEMA Туре	5H X 5V
Beam Angle(50%-Degree)	Horizontal 60.2, Vertical 58.0
Max. Cd. (Degree)	9H, -5V
Zonal Lumen(0-60 Degree)	93%
Cutoff Classification	Cutoff

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Outdoor Lens

Optical Characteristics

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Photometric Characteristics

Characteristics	Properties
NEMA Type	5H X 5V
Beam Angle(50%-Degree)	Horizontal 58.9, Vertical 58.9
Max. Cd. (Degree)	0H, 0V
Zonal Lumen(0-60 Degree)	93%
Cutoff Classification	Cutoff

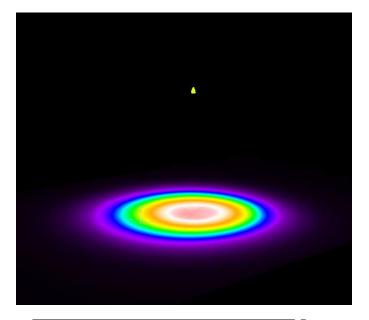


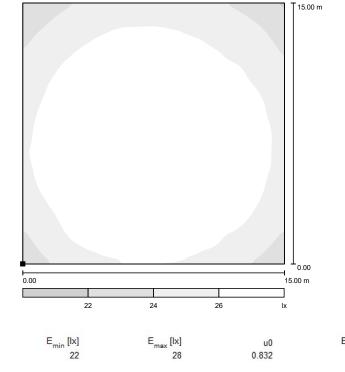
Application Performance

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Flood Lighting Simulation (Example):

Arrangement: Vertical Mounting Height: 30 m Boom Angle: 0 ° Luminous Flux: 31540 lm Calculation size: 15 m X 15 m





E_{min} / E_{max} 0.789

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E_{av} [lx]

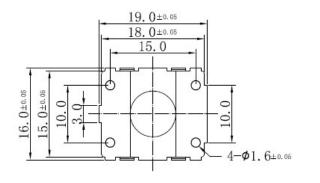
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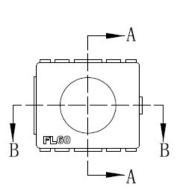
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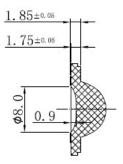
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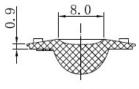
Mechanical Dimensions





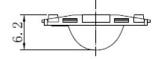


SECTION A-A



SECTION B-B





Unit: millimeter

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Marking Information

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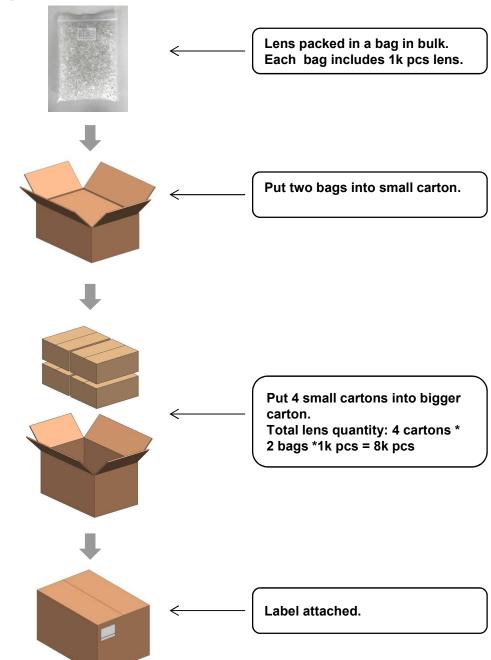
Table 1. Product Information

No	Data	Digit	Example	Re	mark
1	Product Name-1	4	SMJL	SSC Interna	Code for Lens
2	Lens Category	1	1	1: Single Lens 2: 2X2 Array Lens 3: 2X6 Array Lens 4: 2X8 Array Lens	
3	Application Field	1	F	F: Flood Lighting	
4	Beam Angle – Class 1	1	G	A: - B 10 C: 2 D: 3 E: 4 F: 5 G: 6	zontal: <10°)~19° 0~29° 0~39° 0~49° 0~59° 0~69° etc
5	Beam Angle – Class 2	1	G	1~9: B 1(C: 2 D: 3 E: 4 F: 5 G: 6	rtical: <10°)~19° 0~29° 0~39° 0~49° 0~59° 0~69° etc
6	Field Angle – Class 1	1	5	Horizontal	(NEMA Standard) 1: 10~18° 2: 19~29° 3: 30~46°
7	Field Angle – Class 1	1	5	Vertical	4: 47~70° 5: 71~100° 6: 101~130° 7: >130°
8	Material	1	А	A: PMMA C: PC	
				A: WICOP 3030	WICOP Y19/Y22
					WICOP Y11 4in1
9	9 Suitable LED Source 1	А		WICOP Y19 4in1	
				B: WICOP 5050 Module	WICOP Y22 4in1
					WICOP Y11 Matrix Cell-5/9
10	Notes	2	XX	XX: Reference Design	
11	Version	2	01	01: Firs	st Version



Outdoor Lens

Packing Information



Operation Environment

Item	Standard
Flammability	UL 94-HB
Vicat Softening Temperature	108℃
Operation Temp. Range	-10°C~+85°C
Recommended Storage Environment	Temperature: -10°C~+40°C Humidity: < 80%RH
Install Method	With holder



Company Information

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Company Information

Seoul Semiconductor (SeoulSemicon.com) manufacturers and packages a wide selection of light emitting diodes (LEDs) for the automotive, general illumination/lighting, appliance, signage and back lighting markets. The company is the world's fifth largest LED supplier, holding more than 10,000 patents globally, while offering a wide range of LED technology and production capacity in areas such as "nPola", deep UV LEDs, "Acrich", the world's first commercially produced AC LED, and "Acrich MJT - Multi-Junction Technology" a proprietary family of high-voltage LEDs. The company's broad product portfolio includes a wide array of package and device choices such as Acrich, high-brightness LEDs, mid-power LEDs, side-view LEDs, through-hole type LED lamps, custom displays, and sensors. The company is vertically integrated from epitaxial growth and chip manufacture in it's fully owned subsidiary, Seoul Viosys, through packaged LEDs and LED modules in three Seoul Semiconductor manufacturing facilities. Seoul Viosys also manufactures a wide range of unique deep-UV wavelength devices.

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Revision History

Revision	Date	Page	Remarks
0.1	June 20, 2018	All	Version R0.1