

Outdoor Lighting Solution

WICOP _ Street/Area Lens

SMJL-1A4S67AA-XX01 (Area Type IV Lens)









Product Brief

Description

- Type IV Single Lens designed for Area 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

Area Lighting

Material

- PMMA
- Efficiency: 96%

Dimensions

L(mm)*W(mm)*H(mm): 19.0*16.0*5.6

Beam Angle

Type IV

Installation

· With holder

Table 1. Product Selection (Order Code Table)

Part No.	SAP Code	Material	Efficiency	Beam Type	Size(mm)
SMJL-1A4S67AA-XX01	1011564	PMMA	96%	Type IV	19.0*16.0*5.6

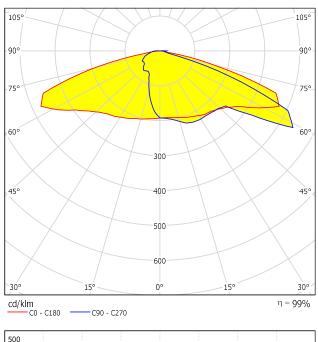
Suitable Leds	сст	CRI	View Angle (Degree)	LES(mm)	Certificate
WICOP SZ8 Y19	2600~7000	70~90	140	1.8*1.8*0.4	LM80
WICOP SZ8 Y22	2600~7000	70~90	140	2.2*2.2*0.4	LM80
WICOP SZ8 Y11-4in1	2600~7000	70~90	150	2.78*2.78*0.45	LM80

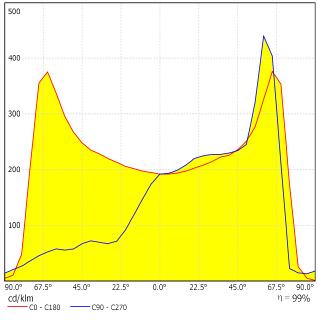


Optical Characteristics

Polar Candela Distribution

LED Source: SZ8 - Y19





Photometric Characteristics

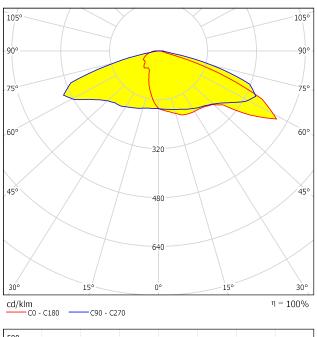
Characteristics	Properties	
IES Classification	Type IV	
Beam Angle(Degree)	Horizontal 100, Vertical 28	
Max. Cd. (Degree)	37.5H, 65V	
Forward Side	75.6%	
Cutoff Classification	Semicutoff	

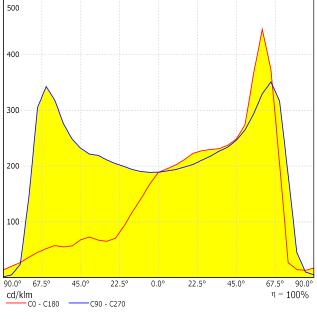


Optical Characteristics

Polar Candela Distribution

LED Source: SZ8 - Y22





Photometric Characteristics

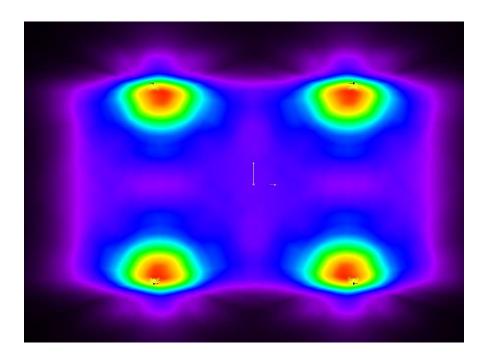
Characteristics	Properties	
IES Classification	Type III	
Beam Angle(Degree)	Horizontal 101, Vertical 32	
Max. Cd. (Degree)	37.5H, 65V	
Forward Side	76.2%	
Cutoff Classification	Semicutoff	

Application Performance

Area Lighting Simulation (Example):

Arrangement: Double row, opposing

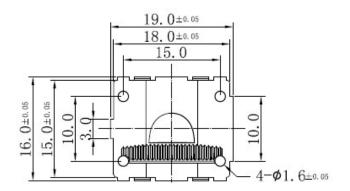
Area Width: 36.0 m Pole Distance: 36.0 m Mounting Height: 7.5 m Luminous Flux: 12592 lm

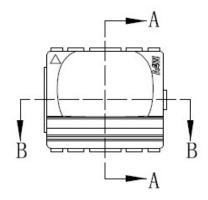


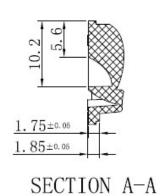
Suitable Area Arrangements:

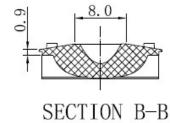
Pole Height	Pole Distance	Area Width
1 H	1H ~ 5H	3H ~ 5H

Mechanical Dimensions

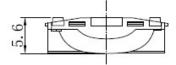












Unit: millimeter



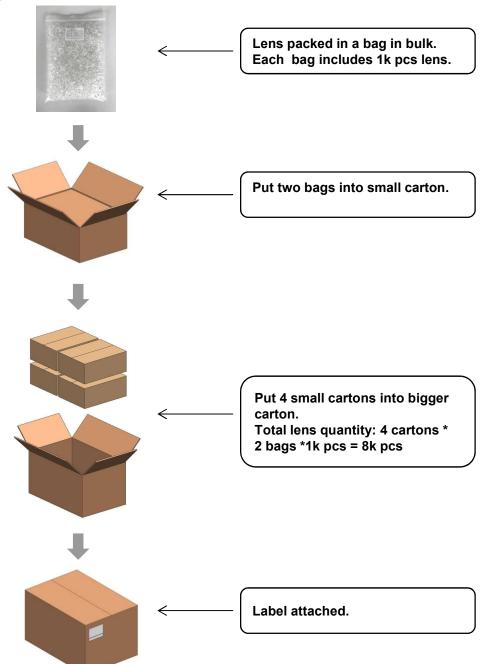
Marking Information

Table 1. Product Information

<u>SMJL</u> - <u>1</u> <u>A</u> <u>4</u> <u>S</u> <u>6</u> <u>7</u> <u>A</u> <u>A</u> <u>A</u> - <u>XX</u> <u>O</u> <u>1</u> ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

No	Data	Digit	Example	Remark		
1	Product Name-1	4	SMJL	SSC Internal 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	Α	A: Area Lighting		
4	Beam Angle – Class 1	1	4	Light Transverse Distribution: 1: Type I 2: Type II 3: Type III 4: Type IV 5:Type V		
5	Beam Angle – Class 2	1	S	Light Longitudinal Distribution: S: Short M: Medium L: Long		
6	Field Angle – Class 1	1	6	Horizontal	(NEMA Standard) 1: 10~18° 2: 19~29° 3: 30~46°	
7	Field Angle – Class 1	1	7	Vertical	4: 47~70° 5: 71~100° 6: 101~130° 7: >130°	
8	Material	1	Α	A: PMMA C: PC		
				A: WICOP 3030 Module	WICOP Y19/Y22	
					WICOP Y11 4in1	
9 Suitable LED Source	Suitable LED Source	Suitable LED Source 1	1 A		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: First Version		

Packing Information



Operation Environment

ltem	Standard	
Flammability	UL 94-HB	
Vicat Softening Temperature	108℃	
Operation Temp. Range	-10°C~+85°C	
Recommended Storage	Temperature: -10°C~+40°C	
Environment	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