



# PLANET ELECTRO LABS

AN ISO 9001/NABL/BIS CERTIFIED LABORATORY

WZ-407/B-1, Basai Dara Pur,  
Near Ramesh Nagar Metro Station,  
New Delhi-110015 (India)

Mob.: 91 9821974769|011-25106978  
E-mail : planetelectrolabs@gmail.com  
Website : www.planetelectrolabs.com

## TEST CERTIFICATE


Page: 1 of 9

### QUALITY REPORT

TEST REPORT AS PER: IES LM79-08/IS 16106.

TEST REPORT NO. PEL/ED/07200619A			NAME & ADDRESS OF CUSTOMER M/S. SHRIYASH ELECTRICALS & POWER SOLUTIONS SR No- 12/5, B Padwal Chawl, Chinchwad, Haveli, Pune Maharashtra- 411033
ULR No. TC527219000000213P			
DATE OF ISSUE OF TEST REPORT: 15/04/2019			
Customer Ref. & Date if any: Nil			
Date of Sample Receipt: 13/03/2019	Start of Test Date: 10/04/2019	End of Test Date: 13/04/2019	

#### PART A - PARTICULARS OF THE SAMPLE SUBMITTED

NATURE OF SAMPLE	LED LUMINAIRE (STREET LIGHT)
Grade/ Variety/ Type/ Class/ Size etc.	220-240VAC, 50Hz, 200W, PF: 0.95, Class I, Made in India
Declared Values, if any (declared by the manufacturer).	Nil
Code no./ Sr. No.	Nil
BIS Seal and IO's sign. If any.	Nil
Batch no., Date of manufacture	Nil
Brand Name/Model No.	Brand "  " / Model "SEPS-SLPL-200"
Quantity of Samples	1 No.
Condition of the Sample when received.	OK
Standard Specification (s).	As customer requirement
Environmental Conditions.	Temperature 25 ± 1°C & Relative Humidity < 65%

#### PART B - SUPPLEMENTARY INFORMATION

- a) Deviations from the test methods as per relevant specification/ work instructions, if any : NIL  
b) Details of the drawings, graphs, tables, sketches or photographs as referred in the test report, if any : NIL

##### Notes:

- i) This report is not to be reproduced wholly or in part without our special permission in writing.  
ii) This report refers only to the particular sample detailed above.  
iii) The results reported in this certificate are valid at the time of and under the stipulated conditions of measurement.  
iv) Sample will be disposed off after 30 days of issue of test report if no any further information is received.  
v) All the tests are certified except one with astrik mark (not accredited by NABL).  
vi) Any recognition claim in the test report is solely for promotional/advertising purpose and has no relation with the content of the report.

Tested By	Approved By	Issued By
 Testing Engineer Date: 15/04/2019	 Technical Manager Date: 15/04/2019	 Proprietor Date: 15/04/2019

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### Marking Plate

**LED BASED LUMINAIRES FOR ROAD AND STREET LIGHT**  
**220-240V (AC SUPPLY), 50Hz± 5Hz, Class - I, IP 67, ta55°C, tc 85°C**

S P E S	Model No	SEPS-SLPL-200	Lot No	
	Rated Wattage	200 Watt	THD	<10%
	Rated Voltage	220 ± 500V	Operating Temp	-20° TO +55° C
	CCT	6000 ± 500K	Power Factor	0.95
	Rated Lumens	20000 lm	System Efficacy	100 Lm/W
	Driver Efficiency	85%	CRI	>70
	Inputcurrent	0.110 A	Surge	5 KV

MFD : Shriyash Electricals & Power Solutions Pune  
 ISO 9001:2015 Co.  
 Made In India



<b>Tested By</b>	<b>Approved by</b>
<i>Sangeeta</i>	
<b>Testing Engineer</b>	<b>Technical Manager</b>

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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Spatial Color Distribution Report	1
Attachment – 2	Spectral Power Distribution	>1

**Possible test case verdicts:**

- test case does not apply to the test object.. : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement.. : F (Fail)

Testing..... :

Date of receipt of test item..... : 13/03/2019

Date (s) of performance of tests..... : 10/04/2019 to 13/04/2019

Laboratory conditions..... :

Ambient Temperature..... : (-20 to +55)°C (As per customer requirement)

Ambient Humidity..... : (<65)%RH

<b>Tested By</b>	<b>Approved by</b>
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### Details of Tests Performed and Result

Sl	Test Parameters	
1	Input RMS AC Voltage	IES LM79/CI.No.:8.0
2	Input RMS AC Current	IES LM79/CI.No.:8.0
3	Input AC Power	IES LM79/CI.No.:8.0
4	Power factor	IES LM79/CI.No.:8.0
5	Frequency	IES LM79/CI.No.:8.0
6	Total Luminous Flux	IES LM79/CI.No.:9.0
7	Luminous Efficacy	IES LM79/CI.No.:11.0
8	Chromaticity Coordinates	IES LM79/CI.No.:12.0
9	Correlated Color Temperature	IES LM79/CI.No.:12.0
10	Color Rendering Index	IES LM79/CI.No.:12.0

#### General remarks:

1. The test results presented In this report relate only to the object tested.
2. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

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Clause No.	Test / Requirement Name	Test Result / Observation
8.0	Electrical Instrumentation The Electrical Characteristics measured for AC Powered SSI Products are	
	1. Input RMS AC Voltage	240.50V
	2. Input RMS AC Current	0.839A
8.3	3. Input AC Power	200.01W
	4. Power Factor	0.9910
	5. Frequency	49.99Hz
9.0	Total Luminous Flux	22045.18lm
10.0	Spatial Color Distribution Report	Attached as attachment-1
11.0	Luminous Efficacy	110.22lm/W
	Radiant Power	59.156W
12.0	Color Characteristic	
	1. Chromaticity Coordinates	x: 0.3246, y: 0.3409 u': 0.2017, v': 0.4762
	2. Peak Wavelength (nm)	440.6
	3. Dominant Wavelength (nm)	503.2
	4. Half Width Wavelength (nm)	18.0
	5. Purity (%)	3.160
	6. Correlated Color Temperature	5850K
	7. Color Rendering Index	76.0

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8. Color Rendering Index (R1)	74.1
9. Color Rendering Index (R2)	72.2
10. Color Rendering Index (R3)	76.4
11. Color Rendering Index (R4)	72.5
12. Color Rendering Index (R5)	70.1
13. Color Rendering Index (R6)	65.9
14. Color Rendering Index (R7)	77.7
15. Color Rendering Index (R8)	58.0
16. Color Rendering Index (R9)	-15.3
17. Color Rendering Index (R10)	36.5
18. Color Rendering Index (R11)	72.7
19. Color Rendering Index (R12)	47.4
20. Color Rendering Index (R13)	68.6
21. Color Rendering Index (R14)	86.9
22. Color Rendering Index (R15)	75.1

### Supplementary Information:

1. The sample is tested according to IES LM79-08.
2. Photometric parameters are obtained using LPCE3 CCD Spectroradiometer.
3. The sample has been operated at 220-240VAC.
4. The sample has been operated for 45 minutes prior to measurement for a stable condition.
5. The orientation (burning position) of SSL product during test is its normal burning position.
6. Total Spectral Radiant Flux Lamp, SLS- 100W calibrated (NIM and NABL traceable) has been used as Standard Lamp

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### Attachment - 1 Spatial Color Distribution Report

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0062	3.2062	525	0.3851	198.3270	670	0.0783	40.3474
385	0.0057	2.9140	530	0.4017	206.9146	675	0.0687	35.3668
390	0.0044	2.2409	535	0.4122	212.2861	680	0.0598	30.8185
395	0.0044	2.2637	540	0.4200	216.3261	685	0.0523	26.9139
400	0.0056	2.8664	545	0.4240	218.3918	690	0.0459	23.6606
405	0.0080	4.1412	550	0.4272	220.0039	695	0.0401	20.6649
410	0.0162	8.3633	555	0.4254	219.1159	700	0.0352	18.1417
415	0.0352	18.1240	560	0.4227	217.6989	705	0.0308	15.8387
420	0.0774	39.8741	565	0.4212	216.9225	710	0.0270	13.9272
425	0.1663	85.6436	570	0.4194	216.0196	715	0.0242	12.4612
430	0.3388	174.5186	575	0.4144	213.4596	720	0.0214	11.0341
435	0.6710	345.5927	580	0.4078	210.0132	725	0.0193	9.9178
440	0.9927	511.2976	585	0.3964	204.1606	730	0.0165	8.4943
445	0.8021	413.1314	590	0.3837	197.6332	735	0.0143	7.3737
450	0.4490	231.2412	595	0.3677	189.3921	740	0.0114	5.8710
455	0.2900	149.3570	600	0.3491	179.7953	745	0.0109	5.6298
460	0.1803	92.8830	605	0.3281	168.9924	750	0.0101	5.2045
465	0.1062	54.7217	610	0.3060	157.5951	755	0.0089	4.5998
470	0.0809	41.6655	615	0.2821	145.2746	760	0.0082	4.2148
475	0.0710	36.5891	620	0.2594	133.5852	765	0.0085	4.3525
480	0.0700	36.0742	625	0.2355	121.2747	770	0.0074	3.8276
485	0.0830	42.7390	630	0.2130	109.6828	775	0.0075	3.8835
490	0.1078	55.5432	635	0.1902	97.9597	780	0.0074	3.8364
495	0.1434	73.8356	640	0.1700	87.5631	785	0.0069	3.5578
500	0.1888	97.2596	645	0.1509	77.6949	790	0.0068	3.5158
505	0.2378	122.4907	650	0.1333	68.6677	795	0.0065	3.3497
510	0.2851	146.8355	655	0.1170	60.2784	800	0.0064	3.3108
515	0.3267	168.2590	660	0.1022	52.6420			
520	0.3603	185.5892	665	0.0897	46.2236			

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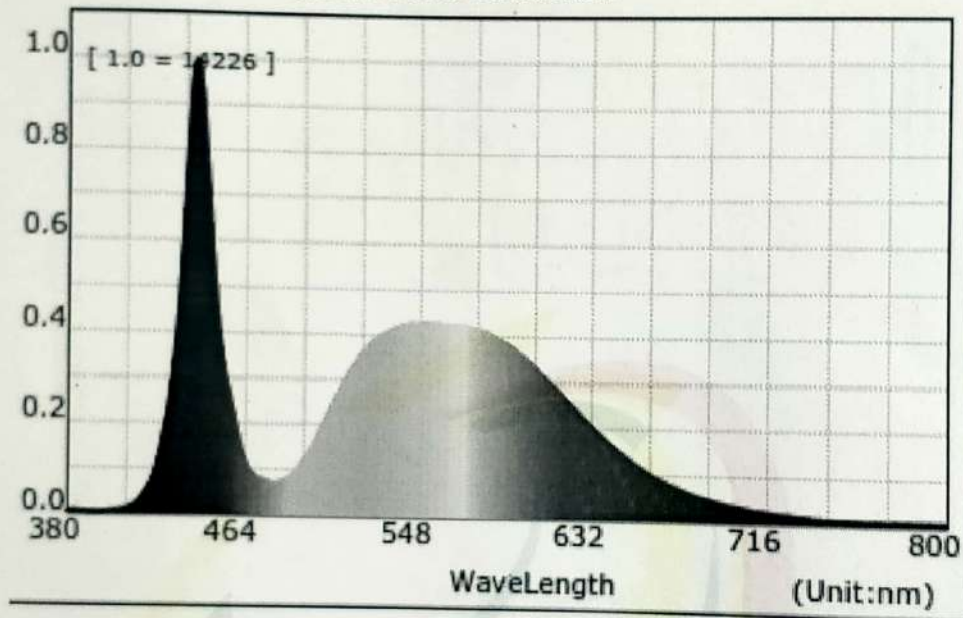
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Attachment - 2  
Spectral Power Distribution



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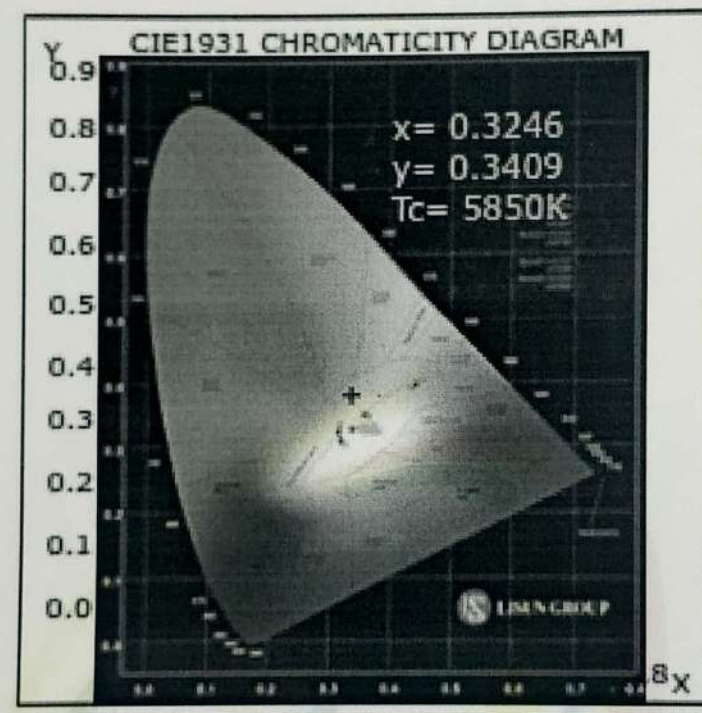
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