


Test Report No	ELN22080220	QR Code (Test Report)
ULR No.	TC576222000000410F	
Page No.	Page 1 of 6	
Date of Receipt	27.08.2022	
Date(s) of Performance	29.08.2022	
Date of issue	29.08.2022	
Test Location	At Lab	
Name of Customer	Leo Lights	
Address of Customer	Om Industrial Estate, Vadolgaon, Behind Gnp Galaxy Mall, Near Reliance Petrol Pump Ambernath(W)	
Name of Manufacturer	Leo Lights	
Brand Name	--	
Name of Sample/ Model No./ Sample No.	Street Light 24W Lens KEI/STL/001	
Product Rating	230Vac, 50Hz, 24W	
No. of Sample Tested	01	
Sample Condition	Good	
Tested By		
Reviewed By		
Authorised By		

Declaration,

1. The results of testing in this report apply only to the sample product/item, which was tested.
2. EAMP Laboratories has not participated in the sample selection.
3. This Test Report shall not be reproduced wholly or in part without the prior written approval of the EAMP Laboratories.
4. Client has to make arrangement for taking back the sample **within one week** after the issue of the test report. After this period EAMP Laboratories reserves the right to dispose the Item.

Additional Info

Test Report No	ELN22080220	
ULR No.	TC576222000000410F	
Issue Date	29.08.2022	Page 2 of 6

Name of Test: Photometry Test Report

Applicable Test Standards or Test Methods	IES LM79:2008 Cl No.9,10,11 &12
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Test Discipline	Photometry	Test Group	Luminaires
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Test Date(s)	29.08.2022
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Equipment and Calibration Details

Sr. No.	Name of Instruments	Lab ID No.	Due Date	Traceable to
1	Moving Mirror Type C Goniophotometer GMS 3000	EAMP-E-001	11.02.2023	CSIR-NPL, New Delhi
2	Spectroradiometer with Integrating Sphere SL 300	EAMP-E-006	11.02.2023	CSIR-NPL, New Delhi
3	Halolux Ceram Standard Lamp 230Vac, 150W E27	EAMP-SL-001	27.06.2023	ERDA, Vadodara
4	Spectral Standard Lamp 30Vdc, 6A E-27	EAMP-SL-002	27.06.2023	ERDA, Vadodara

Statement of Conformity	NA
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Possible Test Case Verdicts

Test case does not applied to SUT	NA
Test case does meet the requirements	P (Pass)
Test case does not meet the requirements	F (Fail)
SUT	Sample under Test

Environmental Contions

Ambient Temperature (°C)	Relative Humudity (%RH)	Air Pressure (hPa)
25.8°C	48.0%	--

Marking Label:

NA

Test Report No	ELN22080220	
ULR No.	TC576222000000410F	
Issue Date	29.08.2022	Page 3 of 6

1.1. Test Details:

No. of Hours operated prior to measurement	0 Hrs
Total Operating time of product for measurement including stabilization	Minutes
Orientation (burning position) of SSL product during test	Normal Burning Position
Self-Absorption Factor	1.1247
Sphere Diameter	1.5 mtr
Coating Reflectance	93%
Sphere Geometry	4 π
Bandwidth of Spectrometer	380 to 780nm
Photometric Distance of Goniophotometer	20.35m

Rated Electrical Values and Nominal CCT

Voltage	Current	Power	Frequency	CCT
230VAC	0.24A	24W	50Hz	--
Light Source		Driver / Ballast		
Make/Specifications	Quantity	Make/Specifications	Quantity	
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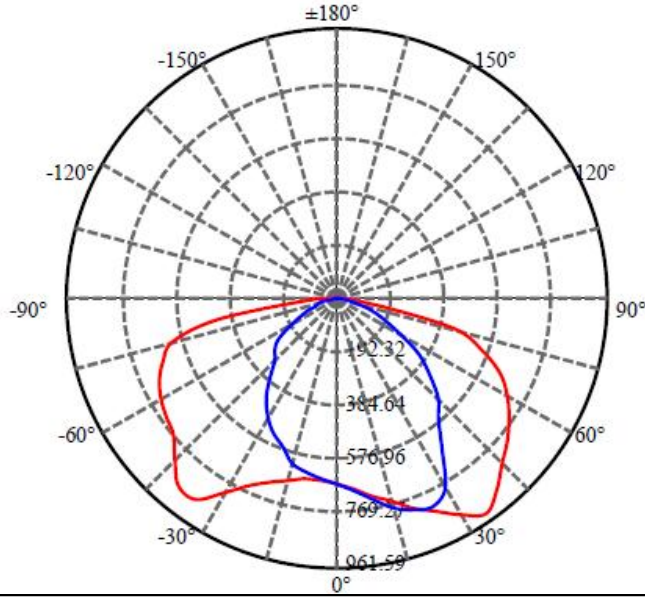
1.2. Test Observation

S. No	Parameters	Units	Results
Electrical Parameters			
1	Voltage	Vac	230.70
2	Current	A	0.0990
3	Power	W	22.75
4	Power Factor		0.9921
5	Frequency	Hz	50
Photometric Parameter			
1	Luminous Flux	lm	2490.99
2	Luminous Efficacy	lm/W	109.49
3	Luminous Intensity (Maximum)	cd	961.59
4	Luminous Intensity (Central)	cd	661.09
5	Beam Angle	°	158.87
Colorimetric Parameter			
1	Correlated Color Temperature	K	6330
2	Color Rendering Index (Ra)		81.0
3	Chromaticity Coordinate (x)		0.3148
4	Chromaticity Coordinate (y)		0.3392

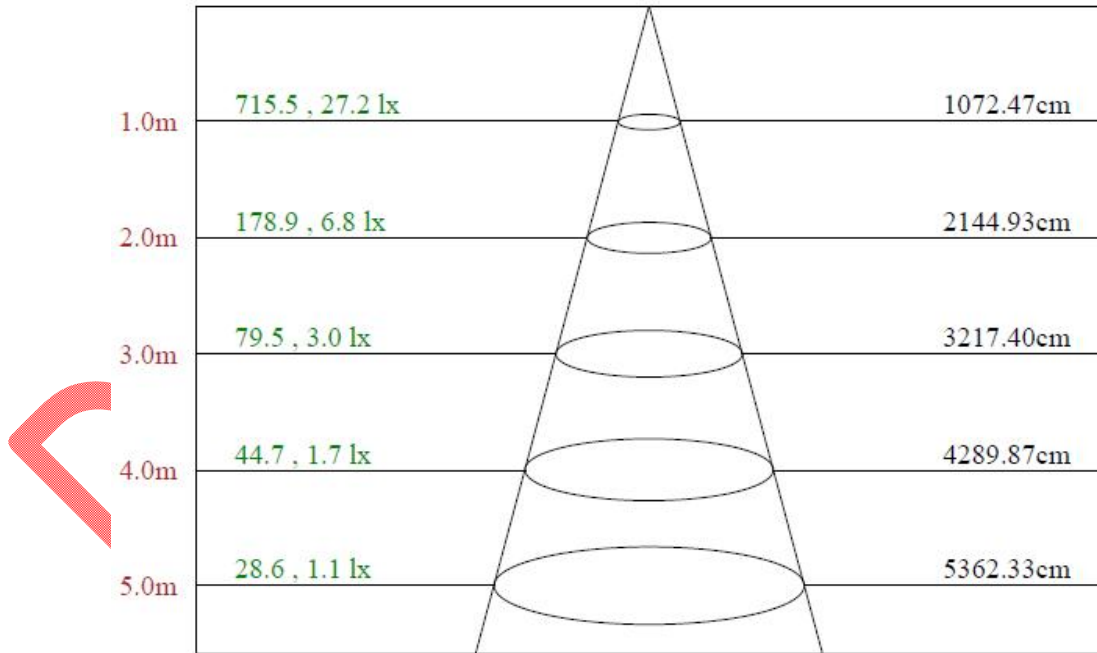
Test Report No	ELN22080220	
ULR No.	TC576222000000410F	
Issue Date	29.08.2022	Page 4 of 6

Photometric Graphs

Light Distribution Curve



Lux distance Curve



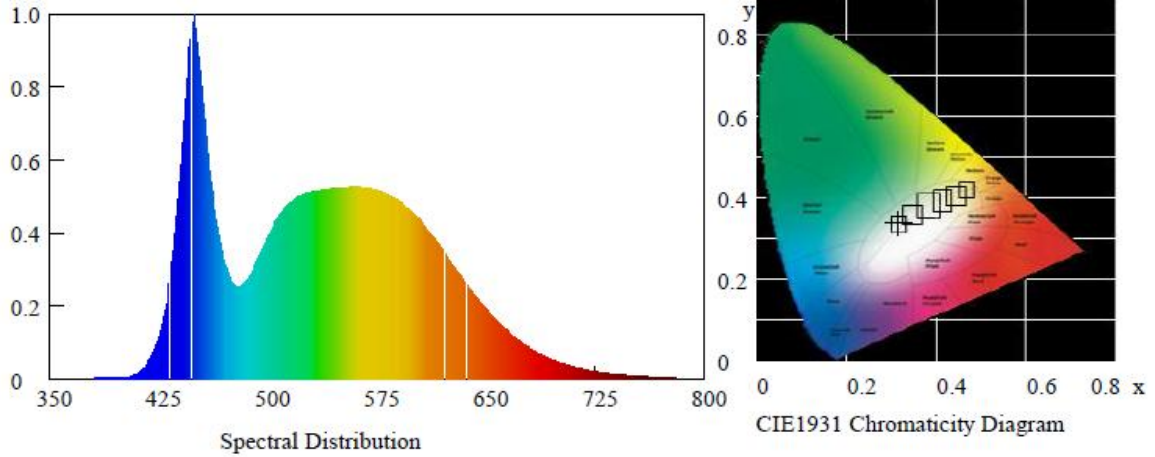
Test Report No	ELN22080220	
ULR No.	TC576222000000410F	
Issue Date	29.08.2022	Page 5 of 6

Intensity Data													
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	
0.0	661.09	682.36	713.65	749.75	795.88	836.80	893.76	931.47	884.13	832.39	787.86	751.35	
22.5	661.09	692.05	734.82	776.37	830.95	883.50	917.71	882.68	799.59	739.30	687.98	623.62	
45.0	661.09	697.91	742.59	793.89	851.81	892.35	872.91	780.65	702.88	651.17	581.66	487.34	
67.5	661.09	690.14	733.30	785.18	835.81	848.67	810.91	699.69	622.08	572.70	487.21	379.31	
90.0	661.09	686.22	728.50	771.21	804.28	817.68	775.39	651.88	563.12	510.79	443.38	356.71	
112.5	661.09	679.90	709.15	744.67	780.19	812.37	798.58	694.11	595.90	544.92	486.42	393.65	
135.0	661.09	668.22	686.25	721.04	760.45	817.04	853.93	792.73	679.96	623.37	588.15	528.62	
157.5	661.09	658.57	668.67	693.50	732.63	786.92	860.98	889.60	804.59	718.33	688.03	652.68	
180.0	661.09	648.66	654.28	671.12	699.61	738.12	797.08	877.31	873.30	811.93	757.37	742.13	
202.5	661.09	648.87	641.95	650.91	662.32	681.87	706.72	753.56	762.93	718.94	690.83	671.28	
225.0	661.09	641.24	632.14	623.45	613.93	605.66	600.28	595.73	558.50	491.48	431.49	380.19	
247.5	661.09	639.51	623.74	602.58	570.62	537.84	512.11	479.74	426.62	364.78	310.00	274.73	
270.0	661.09	647.70	629.28	607.50	563.96	530.47	491.11	435.43	371.79	310.24	284.28	254.98	
292.5	661.09	653.15	642.29	629.75	603.43	572.92	549.10	491.02	410.36	341.41	308.82	265.78	
315.0	661.09	664.87	668.64	673.25	679.96	672.83	663.19	626.30	547.07	462.81	420.89	368.49	
337.5	661.09	677.09	693.08	720.01	746.94	767.14	792.39	812.17	761.25	709.49	688.45	670.77	
360.0	661.09	682.36	713.65	749.75	795.88	836.80	893.76	931.47	884.13	832.39	787.86	751.35	
C/γ(°)	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	
0.0	699.61	643.85	557.20	437.25	195.76	25.27	0.80	1.20	1.60	1.60	1.60	1.60	
22.5	537.67	425.66	283.91	148.27	71.69	24.44	1.22	0.81	1.22	1.22	1.22	1.63	
45.0	360.75	230.02	133.63	86.05	51.30	16.55	1.65	1.24	0.41	0.41	0.83	0.83	
67.5	275.56	187.99	129.89	90.05	53.12	23.24	2.07	1.66	0.41	0.41	0.41	0.41	
90.0	268.37	179.61	129.79	86.67	35.59	14.65	2.09	1.67	0.42	0.42	0.00	0.42	
112.5	292.52	202.67	137.48	96.95	59.76	30.51	3.76	1.67	0.42	0.42	0.42	0.42	
135.0	425.50	281.29	165.59	98.10	65.82	26.41	3.35	1.26	0.42	0.42	0.84	0.84	
157.5	598.81	514.65	388.83	240.28	108.99	48.81	3.37	0.84	0.84	0.84	1.26	1.68	
180.0	721.67	693.59	657.48	599.72	424.82	97.48	2.81	0.80	1.20	1.20	1.20	1.20	
202.5	645.21	592.26	461.91	299.79	167.00	73.73	2.44	0.81	0.41	0.81	0.81	1.22	
225.0	315.24	225.88	136.52	91.01	59.57	23.99	1.65	0.41	0.41	0.41	0.83	0.83	
247.5	220.36	146.08	94.20	65.57	40.25	17.01	0.41	0.00	0.00	0.41	0.41	0.41	
270.0	194.27	122.25	81.64	54.01	25.54	9.21	0.42	0.42	0.42	0.42	0.42	0.42	
292.5	194.32	126.62	87.34	60.59	37.19	13.37	0.84	0.42	0.42	0.42	0.42	0.42	
315.0	277.10	181.94	111.51	78.39	48.21	14.67	0.84	0.42	0.42	0.42	0.42	0.84	
337.5	626.17	521.81	369.89	220.93	109.41	37.45	1.26	0.84	0.84	0.84	0.84	0.84	
360.0	699.61	643.85	557.20	437.25	195.76	25.27	0.80	1.20	1.60	1.60	1.60	1.60	
C/γ(°)	120.0	125.0	130.0	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	180.0
0.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
22.5	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.22	1.63	1.63	1.63	1.63
45.0	0.83	0.83	0.83	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.65
67.5	0.41	0.83	0.83	0.83	0.83	0.83	1.24	0.83	0.83	1.24	1.24	1.24	1.66
90.0	0.42	0.42	0.84	0.84	0.84	0.84	1.26	1.26	1.26	1.26	1.67	1.26	1.67
112.5	0.42	0.42	0.84	0.84	0.84	1.25	0.84	1.25	1.67	1.67	1.67	1.67	1.25
135.0	0.84	0.84	1.26	1.26	1.26	1.26	1.68	1.68	1.68	1.68	1.68	1.68	1.68
157.5	1.68	1.26	1.26	1.26	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
180.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.20	1.60
202.5	1.22	1.22	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
225.0	0.83	1.24	1.24	1.24	1.24	1.24	1.65	1.65	1.65	1.65	1.24	1.65	1.65
247.5	0.41	0.83	1.24	1.24	1.24	1.24	1.24	1.24	1.66	1.66	1.66	1.66	1.66
270.0	0.84	0.84	0.84	1.26	1.26	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
292.5	0.42	0.84	0.84	1.25	1.25	1.67	1.67	1.67	1.67	1.67	1.25	1.25	1.25
315.0	0.84	0.84	1.26	1.26	1.26	1.26	1.26	1.26	1.68	1.68	1.26	1.68	1.68
337.5	1.26	1.26	1.26	1.26	1.68	1.68	1.26	1.26	1.68	1.68	1.68	1.68	1.68
360.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60

Test Report No	ELN22080220	
ULR No.	TC576222000000410F	
Issue Date	29.08.2022	Page 6 of 6

Colorimetric Graphs

Spectroradiometric Parameters



1.3.Conclusion: NA

1.4.Photographs:



****End of Report****