

TESTING REPORT



CENTRAL ELECTRONICS CENTRE

INDIAN INSTITUTE OF TECHNOLOGY MADRAS

CHENNAI - 600 036

INDIA



Issue No: 02, Version No: 02
Issue Date: 13-08-2016

MSP-TST-FOR-004

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- 1.1 Test Registration No. : 200517-CON-TST
- 1.2 Test Venue : Testing Laboratory, CEC, IIT Madras.
- 1.3 Name & Address of the Customer : K-LITE Industries,
D-10, A.I.E, Chennai-600 058
- 1.4 Description of the equipment under test : Polar LED Street Light Luminaire-30W
Model: ID - 5300
Data sheet Attached
- 1.5 Condition on receipt : Good
- 1.6 No. of Test samples : One
- 1.7 Sampling Plan (Wherever applicable) : Not Applicable
- 1.8 Date of receiving the equipment : 24-05-2017
- 1.9 Date of testing : 25-05-2017
- 1.10 Customer's Requirements : Performance Evaluation
- 1.11 Test Method / Standard Used : IES LM79-08
- 1.12 Deviations if any : Nil

2.0 Test Instruments used & Traceability details: (Equipments used are traceable to national standards)

Sl. No.	Equipment used	Calibration Report Reference	Valid upto
1	Integrating Sphere of 4 π geometry & 2m dia with Spectroradiometer CDS2100	LabSphere-OM-04033-002 & NPL/16031409/5.04/C53-56	19-05-2018
2	Power Analyzer-Yokagawa WT500	ETDC(CN)/2016/49155	05-09-2017

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TERMS & CONDITIONS

1. This report refers only to the particular item actually submitted for measurements.
2. Results reported is valid at the time of and under for stated conditions of measurements.
3. CEC, IIT Madras shall not be liable for any change in the measurement data.
4. The report is not to be used for any legal purposes and shall not be produced in a court of law.
5. This report shall not be reproduced except in full, without the written approval from The Director, Indian Institute of Technology Madras.
6. In case of any disputes, the decision on Indian Institute of Technology Madras shall be final binding.



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Laboratory ambient condition: Temperature: 25 ± 2.5 °C

Relative Humidity: 35% - 65%

Test conditions:

Orientation (burning position): Zero degree inclination to horizontal

Bandwidth of Spectroradiometer: 350 nm to 1050 nm, measurements taken at 1 nm interval

Stabilization Time: 30 min

S.No	Clause No. ,Test Description	Observation
1	CL8-Electrical Characteristics 1. Input RMS AC Voltage 2. Input RMS AC Current 3. Input AC Power 4. Input voltage Frequency 5. Power factor 6. Input current THD	240.43 V 129.1 mA 30.43 W 50.0 Hz 0.982 7.8%
2	CL9-Photometric test -Total Luminous Flux	2795 lumens
3	CL11-Luminous Efficacy	91.85 lm/W
4	CL12-Colour characteristics 1. Correlated Colour Temperature (CCT) 2. Chromaticity coordinate -X 3. Chromaticity coordinate-Y 4. Colour Rendering Index Average(CRI)	5259 K 0.3381 0.3447 77.9

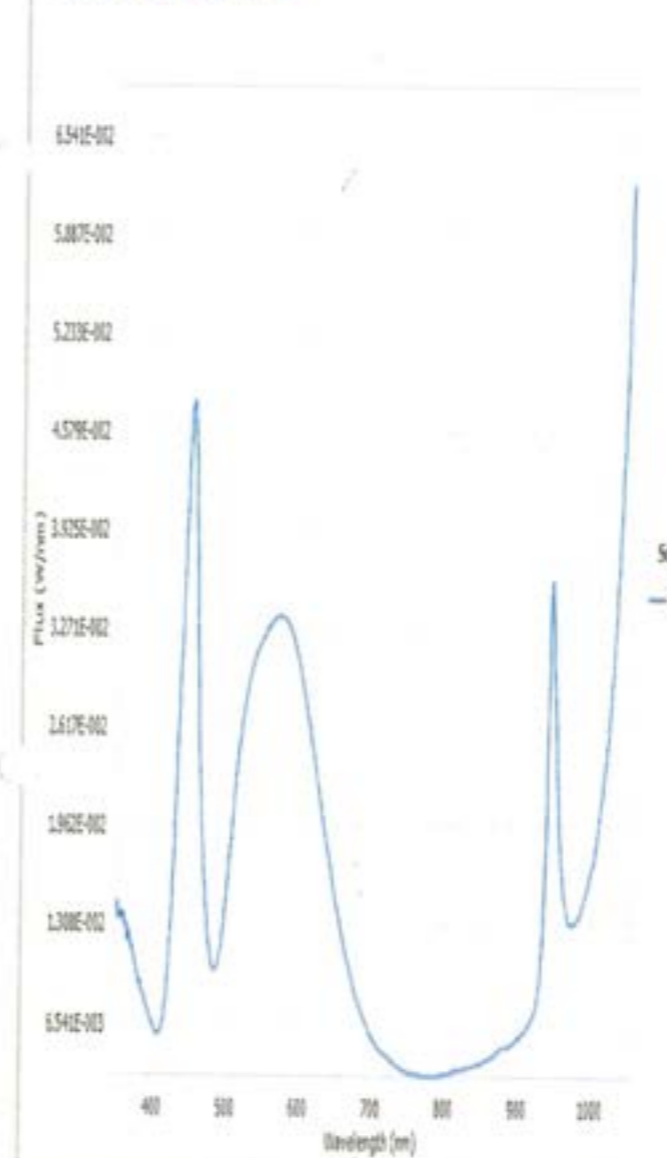
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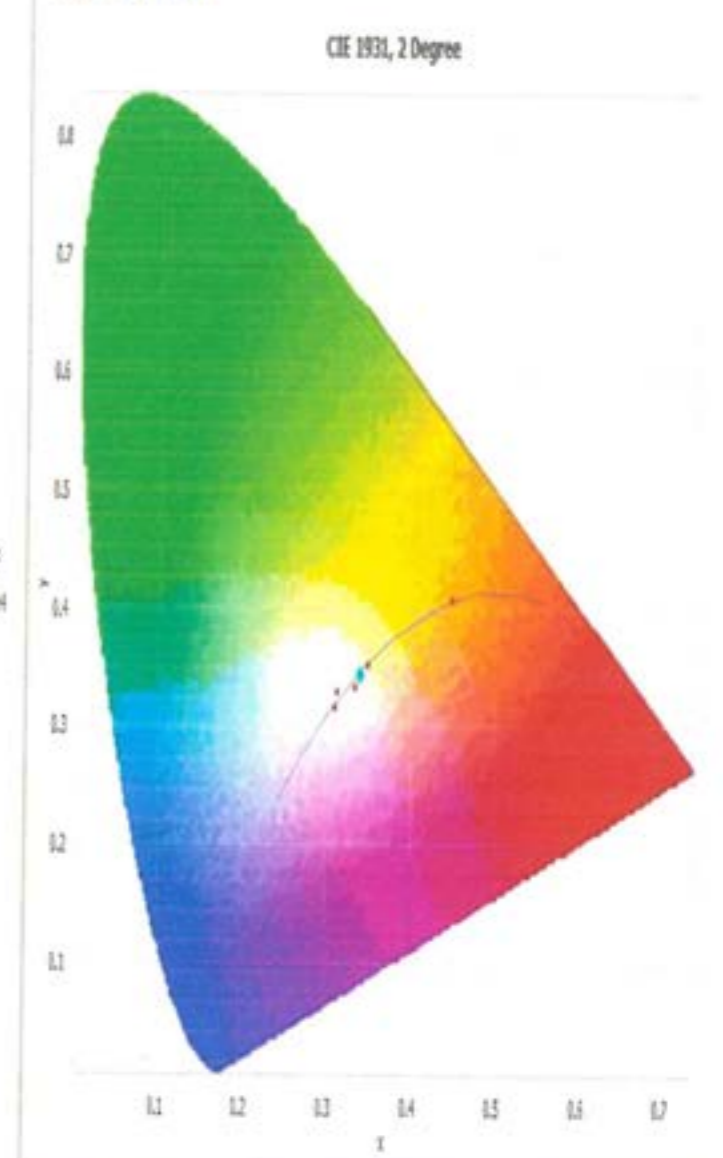


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▼ SPECTRAL FLUX GRAPH



▼ CHROMATICITY



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- In case of any disputes, the decision of the IIT, Madras shall be final and binding.
- If any anomaly is found in the test report, it shall be brought to the notice of the Head, CEC, within 45 days from the date of the report so as to review and amend the report, wherever necessary and send the amendments to the client, after the receipt of the corresponding original report.

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C.R. Jeyarandoss

AUTHORISED SIGNATORY

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