

# 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

REPORT NO:130517-CON-TST DATE: 17-05-2017	<b>TEST REPORT</b>	PAGE NO:1OF 4
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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.

- 1.1 Test Registration No. : 130517-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 : LED Luminaire  
Model: Pelican Fort 2 x 60 – Primary Optics  
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 : 15-05-2017
- 1.9 Date of testing : 17-05-2017
- 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 $\pi$ 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

*G. Anthe*  
TESTED BY

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AUTHORISED SIGNATORY



MSP-TST-FOR-004

REPORT NO:130517-CON-TST DATE: 17-05-2017	TEST RESULTS	PAGE NO.: 2 OF 4
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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	<b>CL8-Electrical Characteristics</b> 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	240.63 V 520.8 mA 120.47 W 50.0 Hz 0.9614 11.44%
2	<b>CL9-Photometric test -Total Luminous Flux</b>	17870 lumens
3	<b>CL11-Luminous Efficacy</b>	148.34 lm/W
4	<b>CL12-Colour characteristics</b> 1. Correlated Colour Temperature (CCT) 2. Chromaticity coordinate -X 3. Chromaticity coordinate-Y 4. Colour Rendering Index Average(CRI)	5378 K 0.3351 0.3396 77.41

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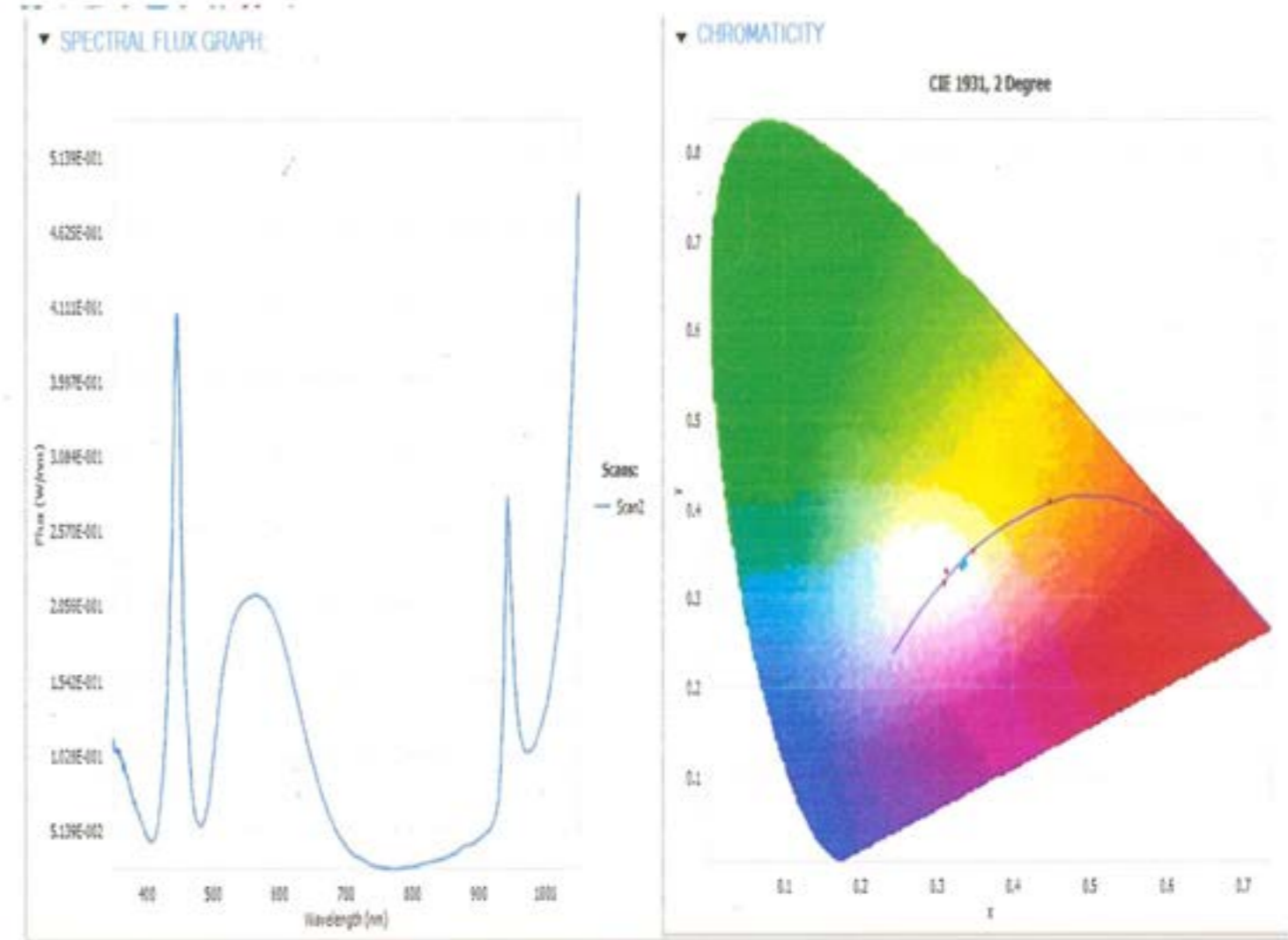
*Authorised Signatory*  
AUTHORISED SIGNATORY

Indian Institute of Technology Madras  
चेन्नै - 600 036 / Chennai - 600 036



MSP-TST-FOR-004

REPORT NO:130517-CON-TST DATE: 17-05-2017	TEST RESULT	PAGE NO.: 3 OF 4
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REPORT NO:130517-CON-TST DATE: 17-05-2017	TERMS & CONDITIONS	PAGE NO.: 4 OF 4
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- This report shall not be reproduced except in full, without the written approval from the IIT, Madras.
- 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.



India's Lighting Company

### Pelican Fort - 2 x 60W - Primary Optics

Pelican Fort Street Light is a special purpose outdoor luminaire, integral model, totally weather proof aesthetically contoured. Improved long lasting protection against ingress of dust / moisture / insects inside optical compartment with top opening facility for maintenance, including relamping. Streamlined profile for lesser aerodynamic resistance.

#### Technical Specifications

- Luminaire comprises of specially contoured spun aluminium body featuring high strength and anti corrosion.
- Suitable for mounting to internally threaded pipe of designation M30.
- Cable entries for through-wiring of mains supply cable (max. 3 x 2.5 Sqmm)
- Integral power supply
- Earth connection
- Safety class I
- Protection class : IP65 for luminaire, IP68 for LED module, IP67 for driver
- CE - Conformity mark
- Suitable for operation on 240V, 50Hz single phase ac supply.

#### Product Benefits

- Top cover retained by hinge for easy maintenance and held in closed position by spring loaded latch.
- Functionally versatile, strong and stable with sound engineering.
- Corrosion resistant and easy maintenance.
- Quick installation and low assembly costs.

#### Area of Application

Illuminating parks, Gardens, commercial complex, streets & office complex.

#### Available Finish

Pure polyester powder coated Traffic Grey / Black.



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