

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number : CPRI BLR ERD18T0115 **Date:** 08th October, 2018
Name & Address of the Customer : M/s. Spectrum Techvision Pvt. Ltd.,
Petechannappa Industrial Estate,
Magadi Main Road, Kamakshipalya,
Bangalore – 560079.
Name and Address of the Manufacturer : M/s. Spectrum Techvision Pvt. Ltd.,
Petechannappa Industrial Estate,
Magadi Main Road, Kamakshipalya,
Bangalore – 560079.
Particulars of sample tested : 225W LED AC Street Light
Condition of Sample on receipt : Physical condition is good
Type : Outdoor
Description of test sample : 225W LED AC Street Light
Serial Number : SL225W0918R0001
Number of samples tested : One
Date(s) of Test(s) : 04th October, 2018
CPRI Sample code No(s). : ERED18S0190
Particulars of tests conducted : 1. Measurement of electrical parameters
2. Total luminous flux measurement
Test in accordance with Standard/Specification : IES LM-79-08
Sampling Plan : Not applicable
Customer's Requirement : Measurement of total luminous flux & luminous efficacy
Deviations if any : Nil
Name of the witnessing persons
Customers representative : None
Other than customer's representatives : None
Test subcontracted with address of the laboratory : None
Documents constituting this report (in words):
Number of Sheets : Eight
Number of Oscillogram/s : Nil
Number of Graphs : Two
Number of Photos : Nil
Number of Test circuit Diagrams : Nil
Number of Drawings : Nil

(N.RAJKUMAR)
TEST ENGINEER



(R SUDHIR KUMAR)
HEAD OF DIVISION

Approved by

ULR-TC5452180ERDT0115F

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Description of sample tested (ratings as assigned by the manufacturer)

Tested sample	225W LED AC Street Light
Type	Outdoor
Designation	225W LED AC Street Light
Serial number	SL225W0918R0001
Rated voltage	230 V
Operating voltage range	100 – 270V AC

Documents attached to this report

Graph Sheets

CPRIBLRERED18T0115.GP1 & CPRIBLRERED18T0115.GP2

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1. Measurement of electrical parameters

Test procedure:

Input voltage is applied across the input terminals of the test equipment and following parameters are measured as shown in the test result table.

Test conditions

Source 0-280 V AC Supply

Test Details

Input Voltage Applied 230V AC
Stabilization of SSL Product 30 Minutes
Total Operating time of the Product 90 Minutes
Seasoning Of the SSL Product No Seasoning
Operating Orientation Fixed Horizontally
Ambient temperature 25°C

TEST RESULTS

Sl.No.	Measured Parameters	Values Recorded
01	Input Current	0.98 A
02	Power Factor	0.99
03	I _{thd}	6.46 %
04	V _{thd}	1.75 %
05	Output Voltage	297.8 V
06	Output Current	0.71 A
Calculated Parameters		
07	Input Power	223.15 W
08	Output Power	211.44 W
09	Efficiency	94.75 %

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2. Total luminous flux measurement using spectroradiometer.

Photometric characteristic results

Parameter	Scan 317
Date/Time	04-10-18 15:36
Radiant Flux (W)	74.46
Luminous Flux (lm)	23869.38
Scotopic Luminous Flux (lm)	45338.00
Chromaticity x coordinates	0.33
Chromaticity y coordinates	0.34
Chromaticity u coordinates	0.20
Chromaticity v coordinates	0.32
Delta uv	0.00
Chromaticity u' coordinates	0.20
Chromaticity v' coordinates	0.48
Peak Wavelength (nm)	442.69
Center Wavelength (nm)	441.56
Centroid Wavelength (nm)	540.05
Dominant Wavelength (nm)	504.00
Spectral Locus Purity (%)	2.44
Correlated Color Temperature (deg. K)	5821.00
Power consumption by the luminaire (W)	
During photometric test (W)	220.93
During Efficiency test (W)	211.44
Luminous Efficacy (lm/W)	108.04
Color Rendering Index Average (RA)	71.21

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Photometric characteristic results

CRI_R1	70.24
CRI_R2	73.75
CRI_R3	76.79
CRI_R4	73.37
CRI_R5	72.12
CRI_R6	66.52
CRI_R7	77.22
CRI_R8	59.65
CRI_R9	-28.02
CRI_R10	38.44
CRI_R11	74.12
CRI_R12	49.20
CRI_R13	69.48
CRI_R14	86.89

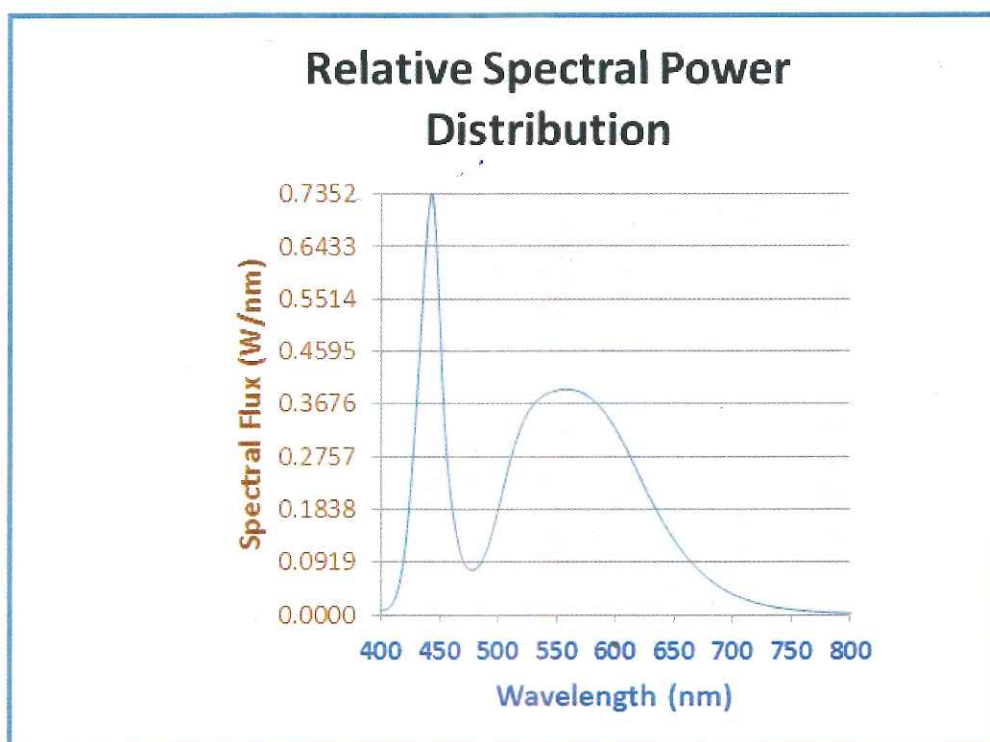
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Spectral Flux Graph



Graph number : CPRIBLRERED18T0115.GP1



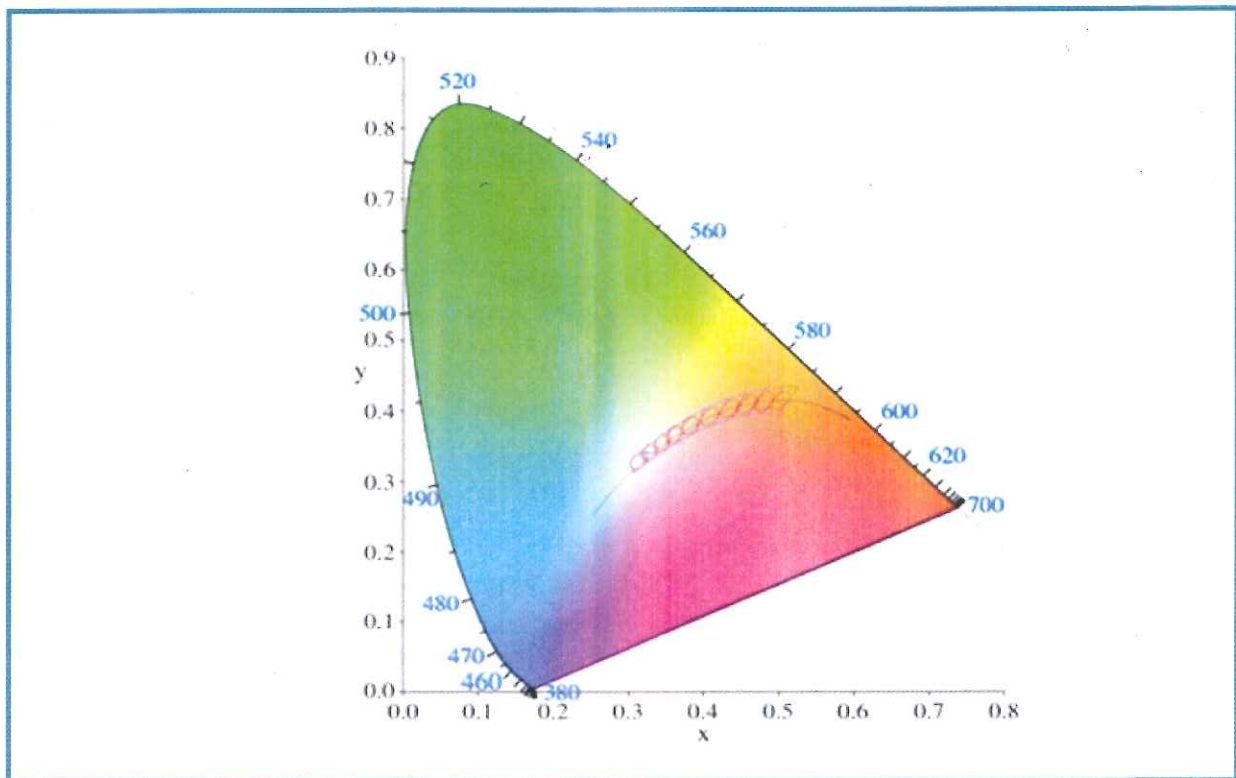
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CHROMATICITY DIAGRAM



Graph number : CPRIBLRERED18T0115.GP2


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NOTE

- The test results relate only to the item(s) tested.
- Publication or reproduction of the test report /certificate in any form other than by complete set of the whole test report /certificate and in the language written is not permitted without the written consent of CPRI.
- Any corrections/erasure invalidates the test report/certificate
- NABL has accredited this laboratory as per ISO/IEC 17025-2005 standard, vide certificate no. TC-5452 for the tests carried out.
- Any anomaly/discrepancy in the test report /certificate should be brought to the notice of CPRI within 45 days from the date of issue.

(N.RAJKUMAR)
TEST ENGINEER



केन्द्रीय विद्युत अनुसंधान संस्थान

(भारत सरकार की सोसाइटी, विद्युत मंत्रालय)

प्रो सर सी. वी. रामन रोड, सदाशिवनगर डाक घर, पो. बा. सं. 8066, बंगलूर - 560 080

CENTRAL POWER RESEARCH INSTITUTE

(A Govt of India Society under Min. of Power)

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ENERGY EFFICIENCY AND RENEWABLE ENERGY DIVISION

Phone: 080-22072165 email: sudhir@cpri.in

CPRI/ERED/LED/REP/T00115

08/10/2018

To,

M/s. Spectrum Techvision Pvt. Ltd.,
Petechannappa Industrial Estate,
Magadi Main Road, Kamakshipalya,
Bangalore – 560079.

Dear Sir,

Please find enclosed the test report for the 225W LED AC Street Light - 01 Nos.

Please acknowledge the receipt of the test report. Thank you for utilizing our services.

Corrections, if any, in the report may please be brought to our notice within 45 days from the date of issue of the report.

Kindly arrange to take back the equipment tested within 15 days, failing which the same will be disposed off.

Thanking you,

Yours Sincerely,

(R. Sudhir Kumar)
Head of Division