

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number	ERED17067	Date: 13 th December, 2017
Name & Address of the Customer	M/s. Spectrum Techvision Pvt Ltd No.171, Petechnappa Industrial Estate, Kamakshipalya. Magadi Main Road, Bangalore-560079	
Name & Address of the Manufacturer	M/s. Spectrum Techvision Pvt Ltd No.171, Petechnappa Industrial Estate, Kamakshipalya. Magadi Main Road, Bangalore-560079	
Particulars of sample tested	40W AC Operated Street Light	
Condition of sample on Receipt	New & Good	
Type	Outdoor	
Description of test sample	40W AC Operated Street Light	
Serial Number	STV-13-LSL-40W-CW	
Number of samples tested	One	
Date(s) of test (s)	30 th November to 04 th December, 2017	
CPRI sample code no(s)	ERED17S0062	
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		
Customer's representative		
Other than customer's representative	None	
Test subcontracted with address of the laboratory	None	
Documents constituting this report (In words)		
Number of sheets	Six	
Number of oscillograms	Nil	
Number of graphs	Two	
Number of photos	Nil	
Number of test circuit diagrams	Nil	
Number of drawings	Nil	


(K.JEYKISHAN KUMAR)
TEST ENGINEER




(JOTHIBASU S)
JOINT DIRECTOR
Approved by

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Report Number: ERED17067

Date: 13th December, 2017

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

Tested sample	AC Operated Street Light
Type	Outdoor
Designation	AC Operated Street Light
Serial number/Model No	STV-13-LSL-40W-CW
Rated voltage	140-270V AC
Rated power	40W
No of LEDs	16

Documents attached to this report

Graph Sheets

ERED17067.GP1 & ERED17067.GP2

(K.JEYKISHAN KUMAR)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Report Number: ERED17067

Date: 13th December, 2017

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 (Dimmerstat)
Phase Single
Frequency 50Hz

Test Details

Input Voltage Applied 230 V AC
Stabilization of SSL Product 60 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	0.187 A
02	Power factor	0.936
03	V THD	0.658 %
04	A THD	9.0%
05	Output Voltage	47.67 V
06	Output Current	0.763 A
Calculated Parameters		
07	Input Power	40.26 W
08	Output Power	36.37 W
09	Efficiency	90.34 %

(K.JEYKISHAN KUMAR)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Report Number: ERED17067

Date: 13th December, 2017

2. Total Luminous flux measurement using spectroradiometer.

Photometric Characteristic Results

Parameter	Scan 204
Date/Time	30-11-17 16:20
Radiant Flux (W)	11.57
Luminous Flux (lm)	3719.25
Scotopic Luminous Flux (lm)	7780.88
Chromaticity x coordinates	0.32
Chromaticity y coordinates	0.35
Chromaticity u coordinates	0.20
Chromaticity v coordinates	0.32
Delta uv	0.01
Chromaticity u' coordinates	0.20
Chromaticity v' coordinates	0.48
Peak Wavelength (nm)	448.34
Center Wavelength (nm)	449.52
Centroid Wavelength (nm)	541.81
Dominant Wavelength (nm)	509.00
Spectral Locus Purity (%)	3.03
Correlated Color Temperature (deg. K)	5890
Power consumption by the luminaire (W)	
During Efficiency test (W)	40.26
During Photometric test (W)	39.82
Luminous Efficacy (lm/W)	93.40
Color Rendering Index Average (RA)	79.02

(K.JEYKISHAN KUMAR)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Report Number: ERED17067

Date: 13th December, 2017

Photometric Characteristic Results

CRI_R1	75.66
CRI_R2	83.69
CRI_R3	90.00
CRI_R4	79.07
CRI_R5	77.50
CRI_R6	78.44
CRI_R7	85.40
CRI_R8	62.36
CRI_R9	-16.38
CRI_R10	61.87
CRI_R11	77.78
CRI_R12	58.45
CRI_R13	77.48
CRI_R14	94.64


(K.JEYKISHAN KUMAR)
TEST ENGINEER

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Report Number: ERED17067

Date: 13th December, 2017

NOTE

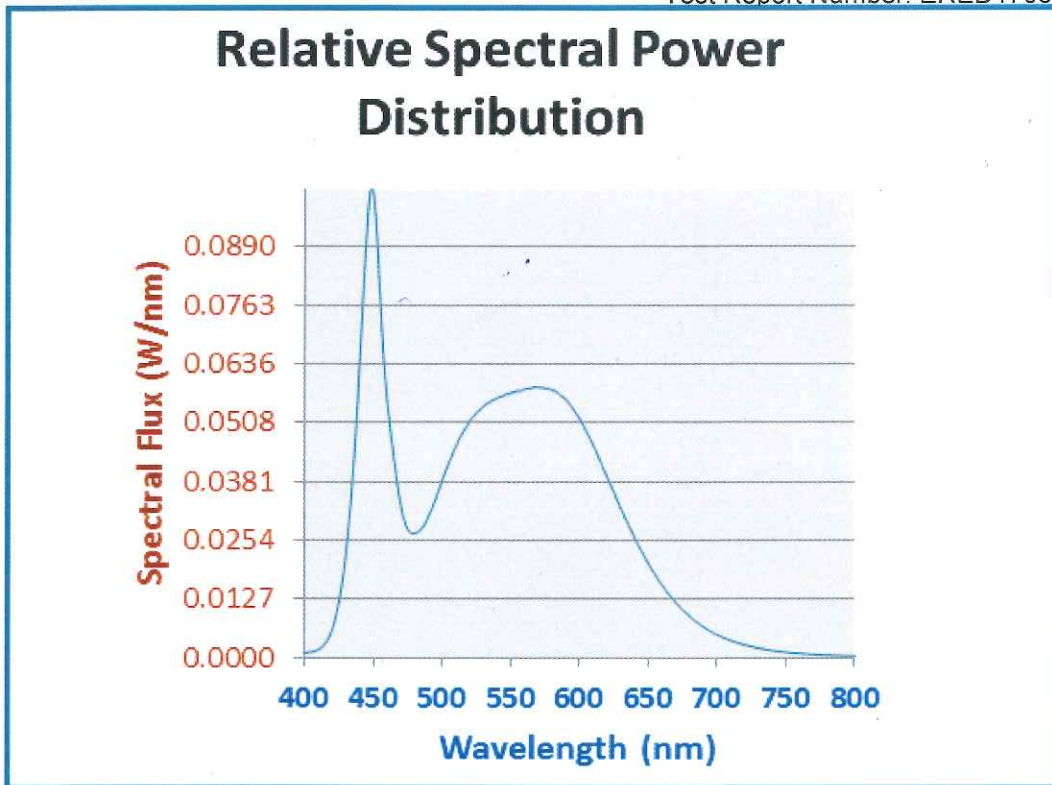
- a) The test results relate only to the item(s) tested.
- b) Publication or reproduction of the test report /certificate in any form other than by complete set of the whole test report /certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any corrections/erasure invalidates the test report/certificate
- d) Any anomaly/discrepancy in the test report /certificate should be brought to the notice of CPRI within 45 days from the date of issue.

**(K.JEYKISHAN KUMAR)
TEST ENGINEER**



Spectral Flux Graph

Test Report Number: ERED17067

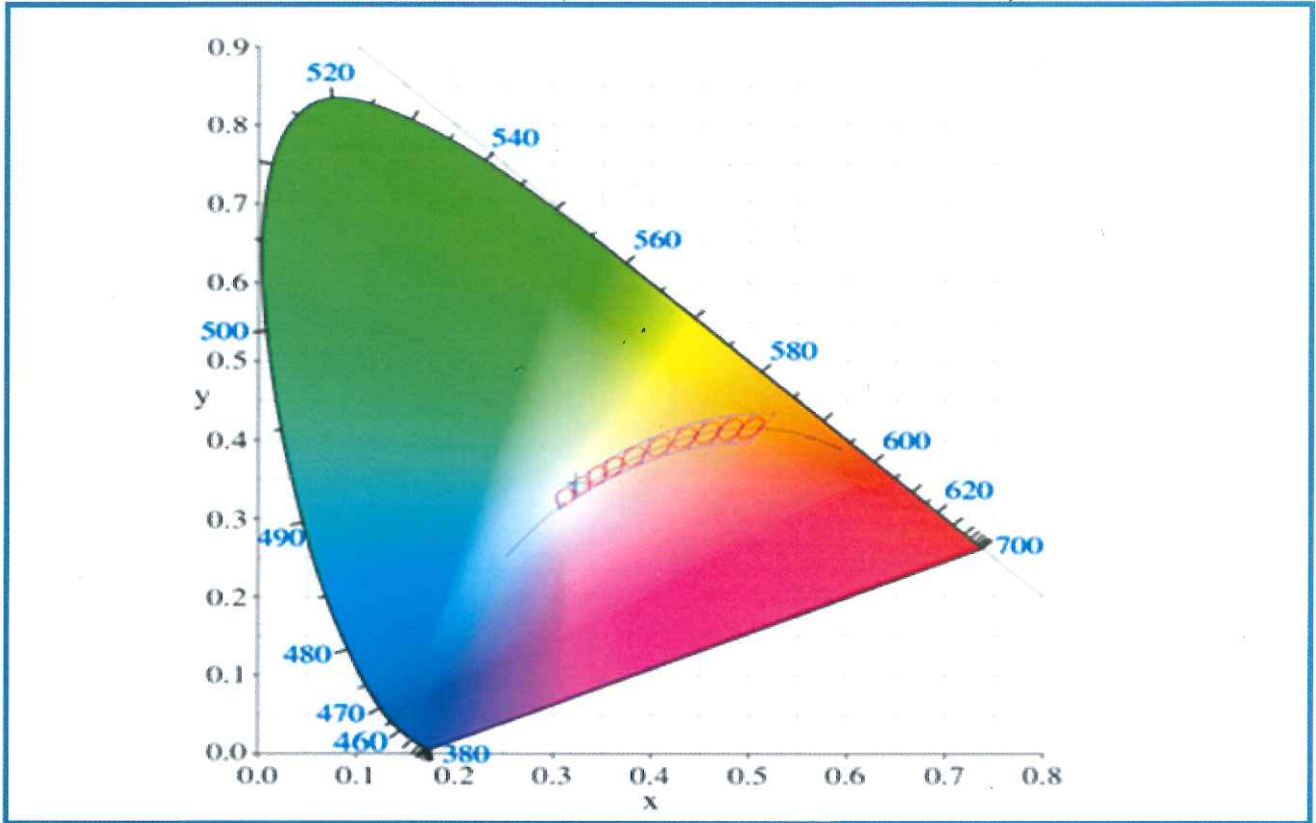


Graph number : ERED17067.GP1

(K.JEYKISHAN KUMAR)
TEST ENGINEER

CHROMATICITY DIAGRAM

Test Report Number: ERED17067



Graph number : ERED17067.GP2

J. Kirhan

(K.JEYKISHAN KUMAR)
TEST ENGINEER