

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number	ERED17065	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	90W AC Operated Street Light	
Condition of sample on Receipt	New & Good	
Type	Outdoor	
Description of test sample	90W AC Operated Street Light	
Serial Number	90W40LED17R1	
Number of samples tested	One	
Date(s) of test (s)	30 th November to 04 th December, 2017	
CPRI sample code no(s)	ERED17S0063	
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



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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	90W40LED17R1
Rated voltage	140-270V AC
Rated power	90W
No of LEDs	40

Documents attached to this report

Graph Sheets

ERED17065.GP1 & ERED17065.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 (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	0.40 A
02	Power factor	0.98
03	V THD	1.014 %
04	A THD	5.177%
05	Output Voltage	115.51 V
06	Output Current	0.72 A
Calculated Parameters		
07	Input Power	90.16 W
08	Output Power	83.17 W
09	Efficiency	92.25 %

K. Jeykishan

(K.JEYKISHAN KUMAR)
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2. Total Luminous flux measurement using spectroradiometer.

Photometric Characteristic Results

Parameter	Scan 201
Date/Time	30-11-17 14:58
Radiant Flux (W)	31.99
Luminous Flux (lm)	10346.83
Scotopic Luminous Flux (lm)	20512.16
Chromaticity x coordinates	0.33
Chromaticity y coordinates	0.35
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)	444.03
Center Wavelength (nm)	443.51
Centroid Wavelength (nm)	540.84
Dominant Wavelength (nm)	517.00
Spectral Locus Purity (%)	2.45
Correlated Color Temperature (deg. K)	5759
Power consumption by the luminaire (W)	
During Efficiency test (W)	90.16
During Photometric test (W)	91.55
Luminous Efficacy (lm/W)	113.02
Color Rendering Index Average (RA)	75.63

Kishan

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Photometric Characteristic Results

CRI_R1	73.54
CRI_R2	78.75
CRI_R3	83.86
CRI_R4	77.50
CRI_R5	75.70
CRI_R6	73.17
CRI_R7	81.35
CRI_R8	61.17
CRI_R9	-22.12
CRI_R10	50.90
CRI_R11	78.00
CRI_R12	57.08
CRI_R13	73.84
CRI_R14	91.10


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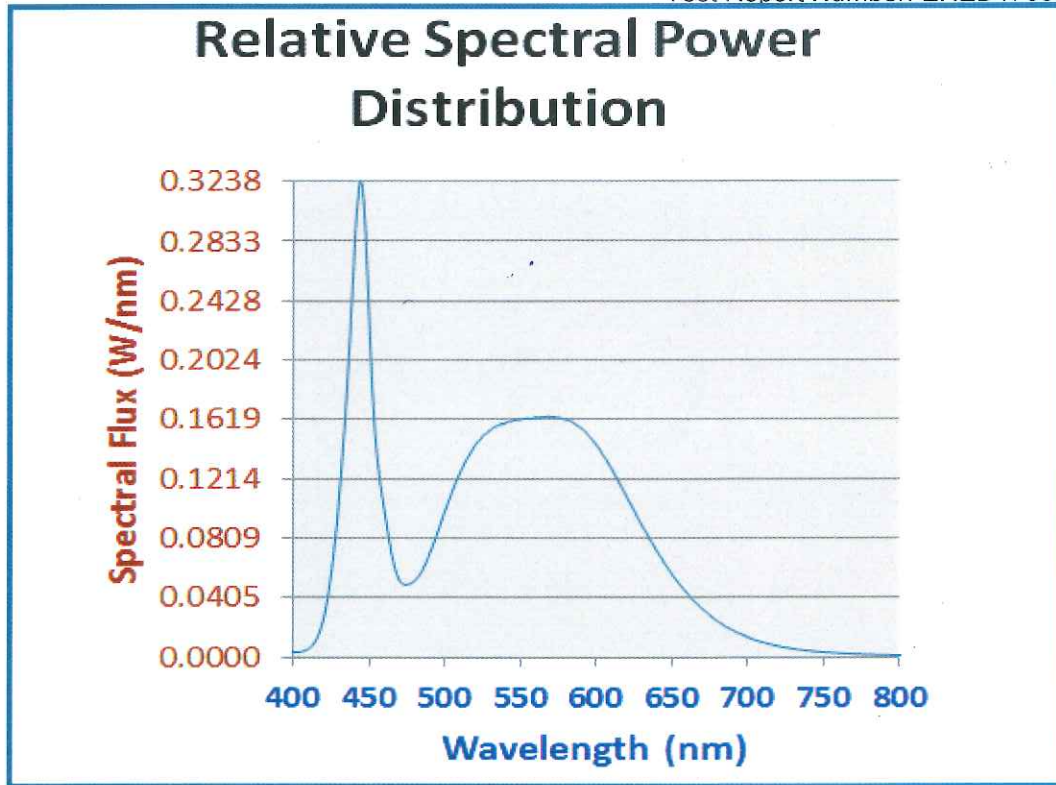
NOTE

- 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: ERED17065



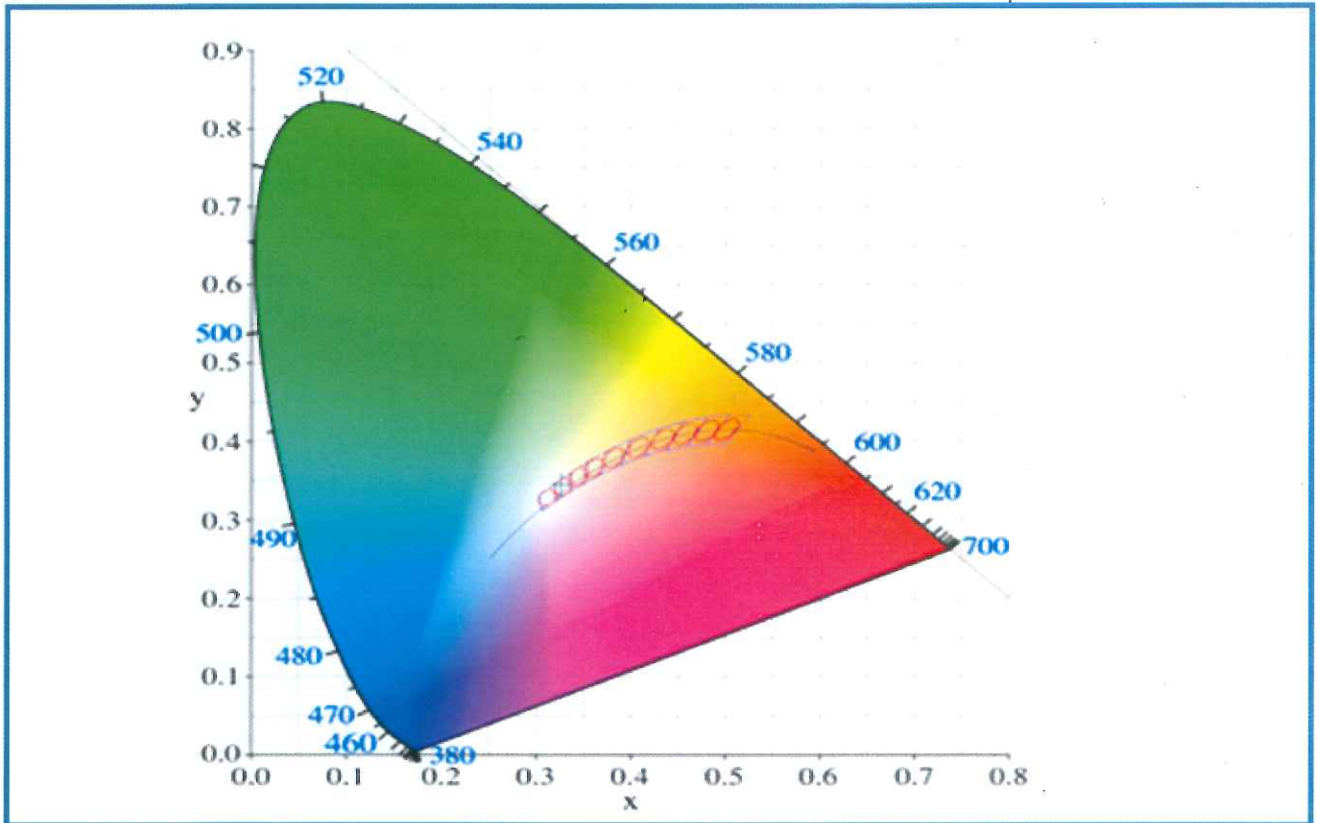
Graph number : ERED17065.GP1



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CHROMATICITY DIAGRAM

Test Report Number: ERED17065



Graph number : ERED17065.GP2

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