

CENTRAL POWER RESEARCH INSTITUTE



CPRI

TEST REPORT

Test Report Number : CPRIBLRERED19T0145 **Date:** 16.08.2019

Name & Address of the Customer : M/s. Spectrum Techvision Pvt Ltd.,
No. 96 , Pete Chennappa Industrial Estate,
Kamakshipalya , Magadi Main Road,
Bangalore – 560 079.

Name and Address of the Manufacturer : M/s. Spectrum Techvision Pvt Ltd.,
No. 96 , Pete Chennappa Industrial Estate,
Kamakshipalya , Magadi Main Road,
Bangalore – 560 079.

Particulars of sample tested : 24W- Garden Light – With External 10 KV SPD
Condition of Sample on receipt : Physical condition is good

Type : Outdoor
Description of test sample : 24W- Garden Light – With External 10 KV SPD
Serial Number : STV22GL24WCW
Number of samples tested : One
Date(s) of Test(s) : 07.08.2019
CPRI Sample code No(s). : ERED19S0287
Particulars of tests conducted : IES LM-79-08
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 : Nil
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

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

Tested sample	24W- Garden Light – With External 10 KV SPD
Type	Outdoor
Designation	24W- Garden Light – With External 10 KV SPD
Luminary Serial number	STV22GL24WCW
Rated voltage	230 V
Driver Rated Power	24 W

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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 230 V 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

SI.No.	Measured Parameters	Values Recorded
01	Input Current	0.11 A
02	Power Factor	0.89
03	I_{thd}	6.52 %
04	V_{thd}	0.96 %
05	Output Voltage	34.66 V
06	Output Current	0.60 A
Calculated Parameters		
07	Input Power	22.52 W
08	Output Power	20.80 W
09	Efficiency	92.36 %

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TEST RESULTS

2. Total luminous flux measurement using spectroradiometer.

Photometric characteristic results

Parameter	Scan 419
Date/Time	07.08.2019 12:00
Radiant Flux (W)	8.37
Luminous Flux (lm)	2511.54
Scotopic Luminous Flux (lm)	5766.48
Chromaticity x coordinates	0.31
Chromaticity y coordinates	0.33
Chromaticity u coordinates	0.20
Chromaticity v coordinates	0.31
Delta uv	0.00
Chromaticity u' coordinates	0.20
Chromaticity v' coordinates	0.47
Peak Wavelength (nm)	450.90
Center Wavelength (nm)	452.31
Centroid Wavelength (nm)	540.68
Dominant Wavelength (nm)	488.00
Spectral Locus Purity (%)	8.29
Correlated Colour Temperature (K)	6659.00
Input Power During Efficiency Test (W)	22.52
Luminous Efficacy (lm/W)	111.52
Color Rendering Index Average (RA)	85.54

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Photometric characteristic results

CRI_R1	84.21
CRI_R2	89.26
CRI_R3	91.53
CRI_R4	85.63
CRI_R5	84.64
CRI_R6	84.04
CRI_R7	90.05
CRI_R8	74.95
CRI_R9	22.16
CRI_R10	73.57
CRI_R11	85.10
CRI_R12	61.62
CRI_R13	85.80
CRI_R14	95.60
CRI_R15	80.12

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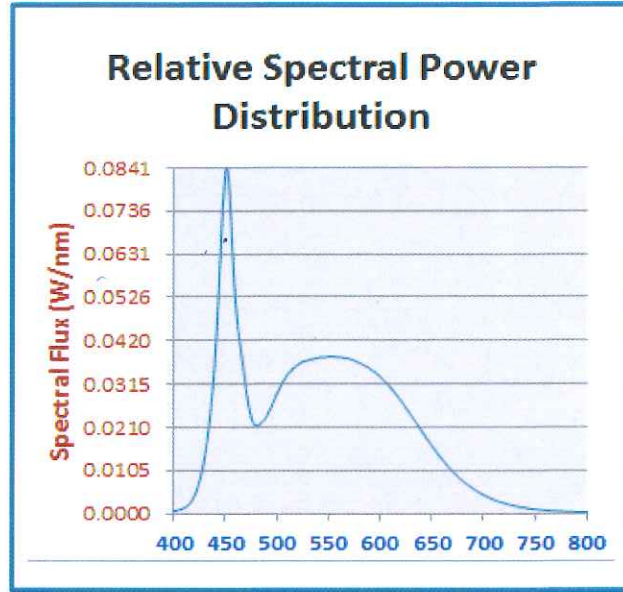
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TEST RESULTS

Spectral Flux Graph



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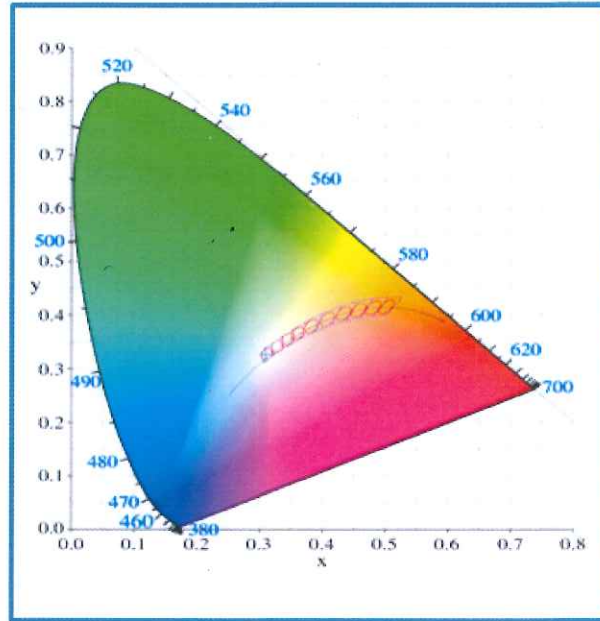
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TEST RESULTS

CHROMATICITY DIAGRAM



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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) NABL has accredited this laboratory as per ISO/IEC 17025-2017 standard, vide certificate no. TC-5452 for the tests carried out.
- e) 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