

# CENTRAL POWER RESEARCH INSTITUTE



**CPRI**

## TEST REPORT

**Test Report Number** : CPRI BLRERED19T0144 **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** : 65W- Garden Light – With External 10 KV SPD  
**Condition of Sample on receipt** : Physical condition is good

**Type** : Outdoor  
**Description of test sample** : 65W- Garden Light – With External 10 KV SPD  
**Serial Number** : STV22GL65WCW  
**Number of samples tested** : One  
**Date(s) of Test(s)** : 06.08.2019  
**CPRI Sample code No(s).** : ERED19S0286  
**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	65W- Garden Light – With External 10 KV SPD
Type	Outdoor
Designation	65W- Garden Light – With External 10 KV SPD
Luminary Serial number	STV22GL65WCW
Rated voltage	230 V
Driver Rated Power	65 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

Sl.No.	Measured Parameters	Values Recorded
01	Input Current	0.29 A
02	Power Factor	0.98
03	$I_{thd}$	6.84 %
04	$V_{thd}$	0.91 %
05	Output Voltage	84.86 V
06	Output Current	0.71 A
<b>Calculated Parameters</b>		
07	Input Power	65.37 W
08	Output Power	60.25 W
09	Efficiency	92.17 %

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## TEST RESULTS

### 2. Total luminous flux measurement using spectroradiometer.

#### Photometric characteristic results

Parameter	Scan 417
Date/Time	06-08-19 18:01
Radiant Flux (W)	24.16
Luminous Flux (lm)	7202.14
Scotopic Luminous Flux (lm)	16927.33
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)	454.13
Center Wavelength (nm)	456.62
Centroid Wavelength (nm)	542.58
Dominant Wavelength (nm)	487.00
Spectral Locus Purity (%)	7.85
Correlated Colour Temperature (K)	6586.00
Input Power During Efficiency Test (W)	65.37
Luminous Efficacy (lm/W)	110.18
Color Rendering Index Average (RA)	87.47

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## TEST RESULTS

### Photometric characteristic results

CRI_R1	87.07
CRI_R2	94.03
CRI_R3	94.99
CRI_R4	84.46
CRI_R5	85.95
CRI_R6	88.13
CRI_R7	89.29
CRI_R8	75.81
CRI_R9	31.75
CRI_R10	83.77
CRI_R11	84.60
CRI_R12	60.43
CRI_R13	90.03
CRI_R14	97.94
CRI_R15	83.33

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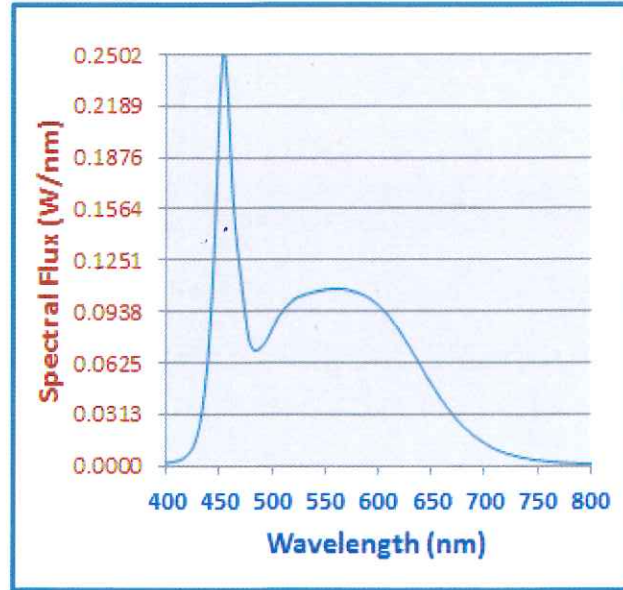
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### TEST RESULTS

#### Spectral Flux Graph



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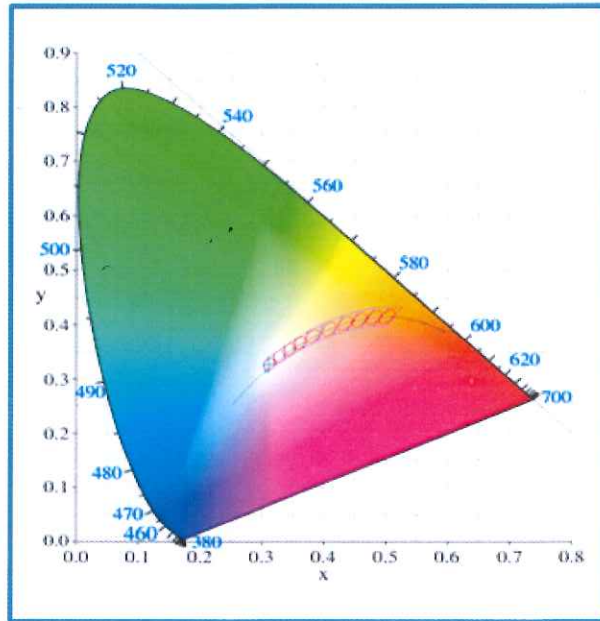
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## TEST RESULTS

### 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