



8165 E. Kaiser Blvd. Anaheim, CA 92808

www.lightlaboratory.com

## Photometric Test Report

### IES FLOOD REPORT

PHOTOMETRIC FILENAME : L112310593.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L112310593

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUE DATE] 4/10/2024

[MANUFAC] USTE dba Vista Professional Outdoor Lighting

[LUMCAT] 1045-WF-RGBW-(W)

[LUMINAIRE] 1045 (Accent), Wide Flood, White output

[BALLASTCAT] eldoLED PW50S-M4Z0X1, QTY:1

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[INPUT] 120VAC

[TEST PROCEDURE] IESNA:LM-79-19

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

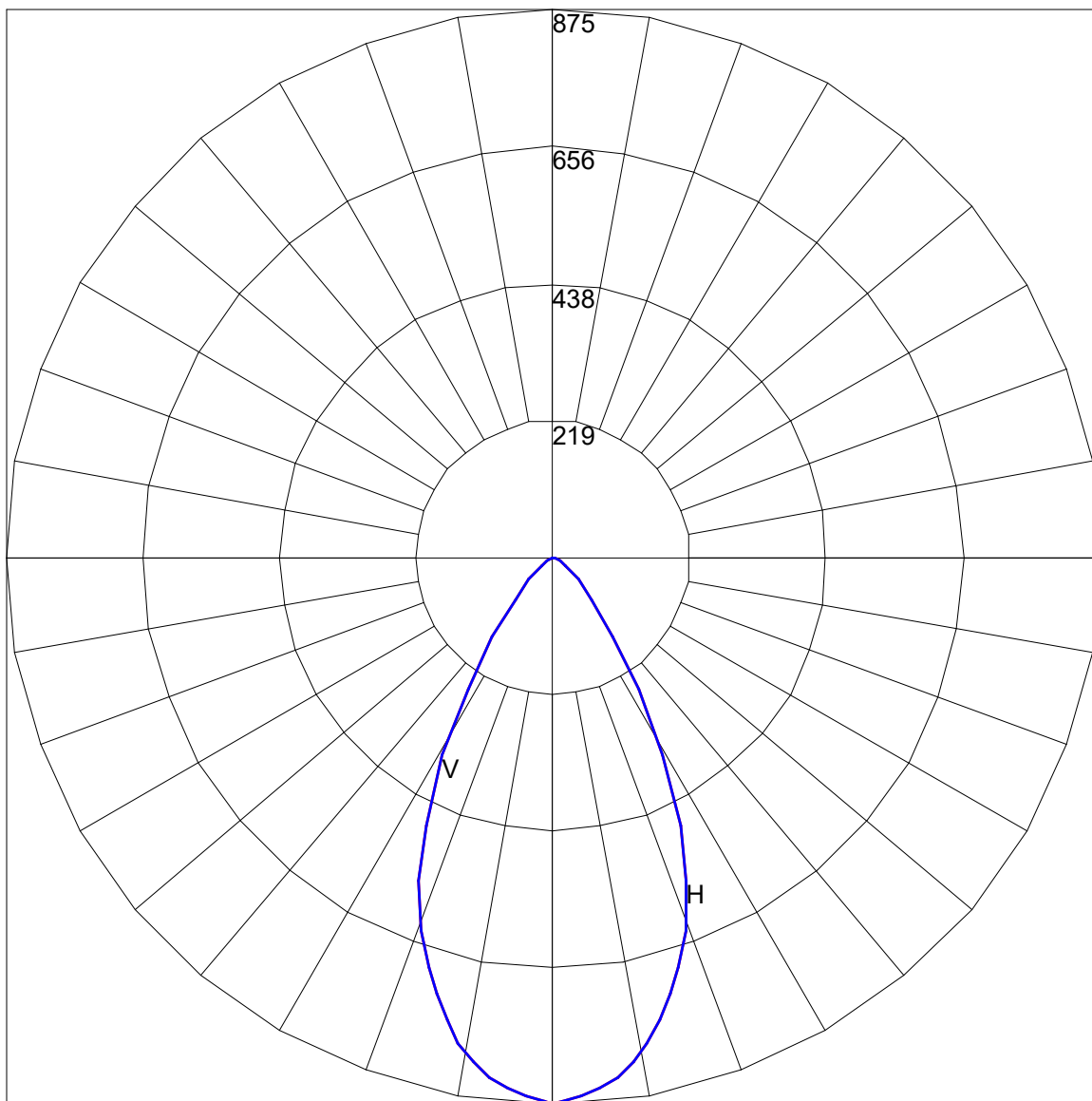
|                              |                 |
|------------------------------|-----------------|
| NEMA Type                    | 5 H x 5 V       |
| Maximum Candela              | 875             |
| Maximum Candela Angle        | 0H 0V           |
| Horizontal Beam Angle (50%)  | 53.3            |
| Vertical Beam Angle (50%)    | 53.3            |
| Horizontal Field Angle (10%) | 86.2            |
| Vertical Field Angle (10%)   | 86.2            |
| Lumens Per Lamp              | N.A. (absolute) |
| Total Lamp Lumens            | N.A. (absolute) |
| Beam Lumens                  | 426             |
| Beam Efficiency              | N.A.            |
| Field Lumens                 | 654             |
| Field Efficiency             | N.A.            |
| Spill Lumens                 | 73              |
| Luminaire Lumens             | 727             |
| Total Efficiency             | N.A.            |
| Total Luminaire Watts        | 21.74           |
| Ballast Factor               | 1.00            |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L112310593.IES**

**AXIAL CANDELA**

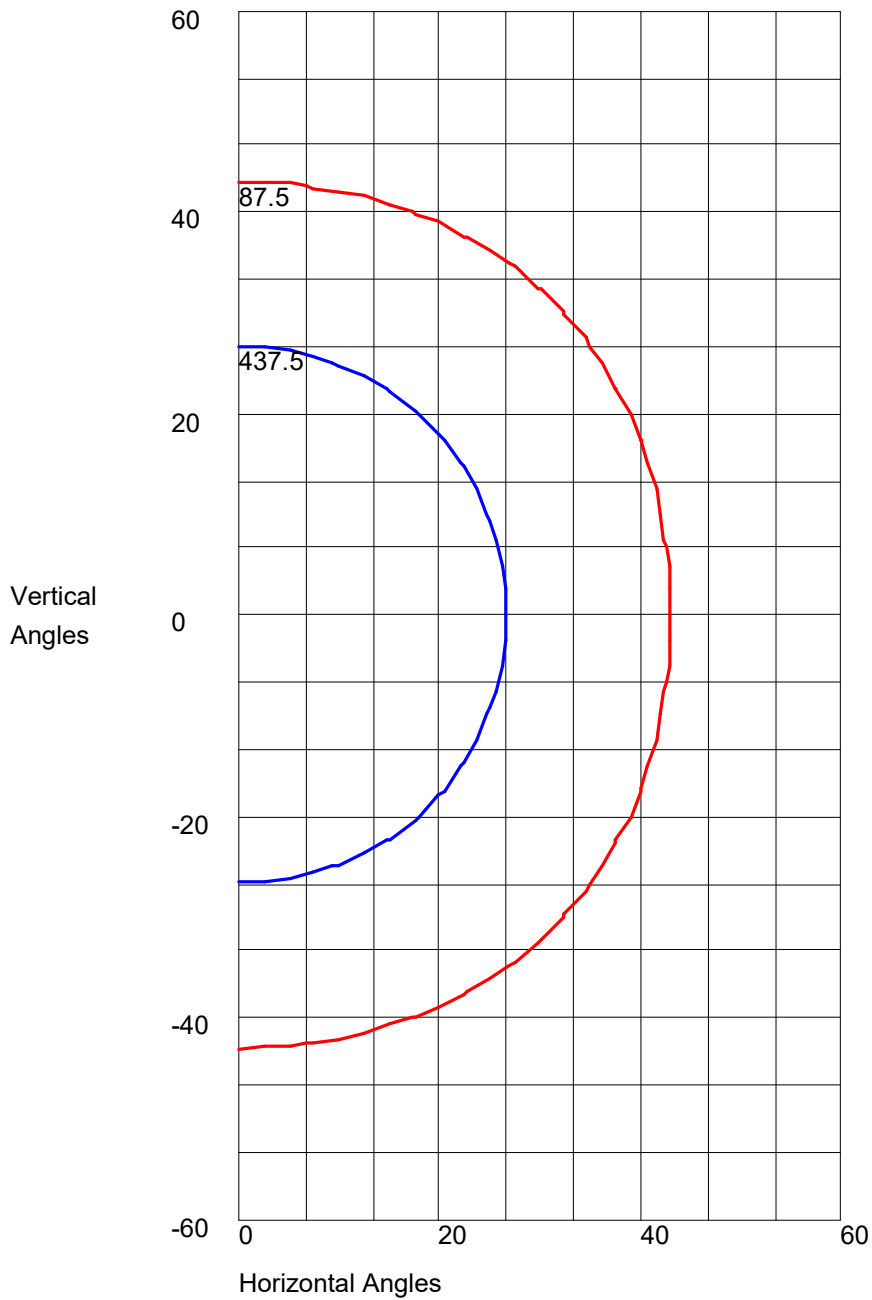
| DEG.  | HOR. | DEG.  | VERT. |
|-------|------|-------|-------|
| 90    | 0    | 90    | 0     |
| 85    | 0    | 85    | 0     |
| 75    | 2    | 75    | 2     |
| 65    | 11   | 65    | 11    |
| 55    | 24   | 55    | 24    |
| 47.5  | 53   | 47.5  | 53    |
| 42.5  | 92   | 42.5  | 92    |
| 37.5  | 159  | 37.5  | 159   |
| 33    | 252  | 33    | 252   |
| 29    | 363  | 29    | 363   |
| 25.5  | 474  | 25.5  | 474   |
| 22.5  | 560  | 22.5  | 560   |
| 19.5  | 634  | 19.5  | 634   |
| 17    | 686  | 17    | 686   |
| 15    | 725  | 15    | 725   |
| 13    | 760  | 13    | 760   |
| 11    | 791  | 11    | 791   |
| 9     | 817  | 9     | 817   |
| 7     | 838  | 7     | 838   |
| 5     | 854  | 5     | 854   |
| 3     | 865  | 3     | 865   |
| 1     | 872  | 1     | 872   |
| 0     | 875  | 0     | 875   |
| -1    | 872  | -1    | 872   |
| -3    | 865  | -3    | 865   |
| -5    | 854  | -5    | 854   |
| -7    | 838  | -7    | 838   |
| -9    | 817  | -9    | 817   |
| -11   | 791  | -11   | 791   |
| -13   | 760  | -13   | 760   |
| -15   | 725  | -15   | 725   |
| -17   | 686  | -17   | 686   |
| -19.5 | 634  | -19.5 | 634   |
| -22.5 | 560  | -22.5 | 560   |
| -25.5 | 474  | -25.5 | 474   |
| -29   | 363  | -29   | 363   |
| -33   | 252  | -33   | 252   |
| -37.5 | 159  | -37.5 | 159   |
| -42.5 | 92   | -42.5 | 92    |
| -47.5 | 53   | -47.5 | 53    |
| -55   | 24   | -55   | 24    |
| -65   | 11   | -65   | 11    |
| -75   | 2    | -75   | 2     |
| -85   | 0    | -85   | 0     |
| -90   | 0    | -90   | 0     |

AXIAL CANDELA DISPLAY



Maximum Candela = 875 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 875 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 437.5  
10% Maximum Candela = 87.5



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**Report No:** L112310593

**Issue Date:** 4/11/2024

**Report Prepared For:** USTE dba Vista Professional Outdoor Lighting  
1625 Surveyor Ave., Simi Valley CA 93063

**Reference:**N/A

**Amendment:**N/A

**Model Number:** 1045-WF-(W)

**Test:** Photometric/Colorimetric/Electrical Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:

*IESNA LM79: 2019* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

*ANSI NEMA ANSLG C78.377: 2017* Specification of the Chromaticity of Solid State Lighting Products

*ANSI C82.77-10:2014:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Special Test Condition:** Fixture is tested with no special conditions.

**Date of Tests:** 4/9/24

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

#### Equipment List

| Equipment Used                    | Model No   | Stock No   | Calibration Due Date |
|-----------------------------------|------------|------------|----------------------|
| Chroma Programmable AC Source     | 61604      | PS-AC02    | --                   |
| Yokogawa Digital Power Meter      | WT210      | MT-EL06-S4 | 4/7/25               |
| HP Power Supply                   | 6032A      | PS-DC05-S2 | --                   |
| Fluke Digital Thermometer         | 52K/J      | MT-TP05    | 5/24/25              |
| LLI Type C Goniophotometer System | RMG-C-MKII | CD-LL04-GC | --                   |
| LLI 2M Sphere                     | 2MR97      | CD-SN03-S2 | --                   |
| LLI Spectroradiometer             | SPR-3000   | MT-SC01-S2 | Before Use           |

### General Information

|                             |                                              |
|-----------------------------|----------------------------------------------|
| <b>Manufacturer:</b>        | USTE dba Vista Professional Outdoor Lighting |
| <b>Model Number:</b>        | 1045-WF-(W)                                  |
| <b>Driver Model Number:</b> | eldoLED PW50S-M4Z0X1, QTY:1                  |

### Test Summary

|                                      |        |
|--------------------------------------|--------|
| <b>Total Lumens:</b>                 | 727.00 |
| <b>Efficacy:</b>                     | 33.44  |
| <b>Color Redering Index:</b>         | 80.7   |
| <b>Correlated Color Temperature:</b> | 3311   |
| <b>Input Voltage (VAC/60Hz):</b>     | 120.02 |
| <b>Input Current (Amp):</b>          | 0.1856 |
| <b>Input Power (W):</b>              | 21.74  |
| <b>Input Power Factor:</b>           | 0.9759 |
| <b>Current ATHD (%):</b>             | 11.0%  |

### Test Condition

|                                      |      |
|--------------------------------------|------|
| <b>Ambient Temperature (°C):</b>     | 25.0 |
| <b>Stabilization Time (Hours):</b>   | 0:50 |
| <b>Total Operating Time (Hours):</b> | 1:25 |

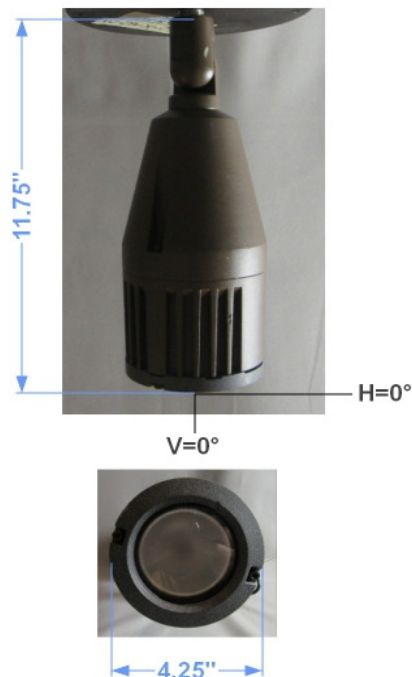
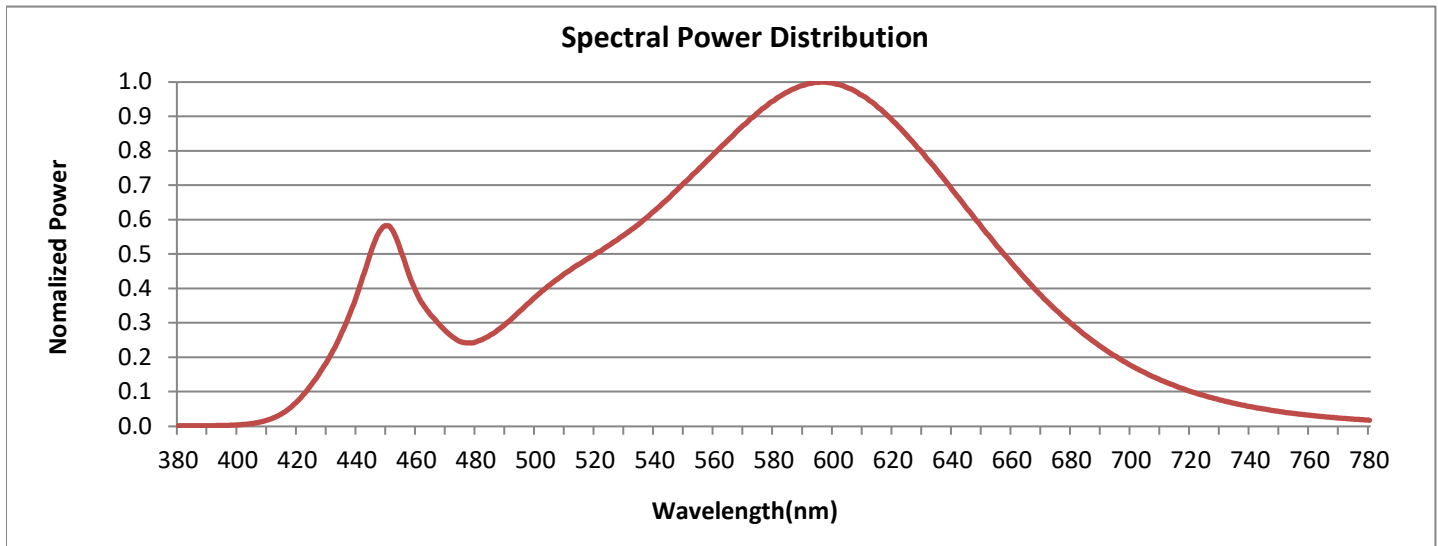


FIG. 1 LUMINAIRE

## Colorimetry Test Results

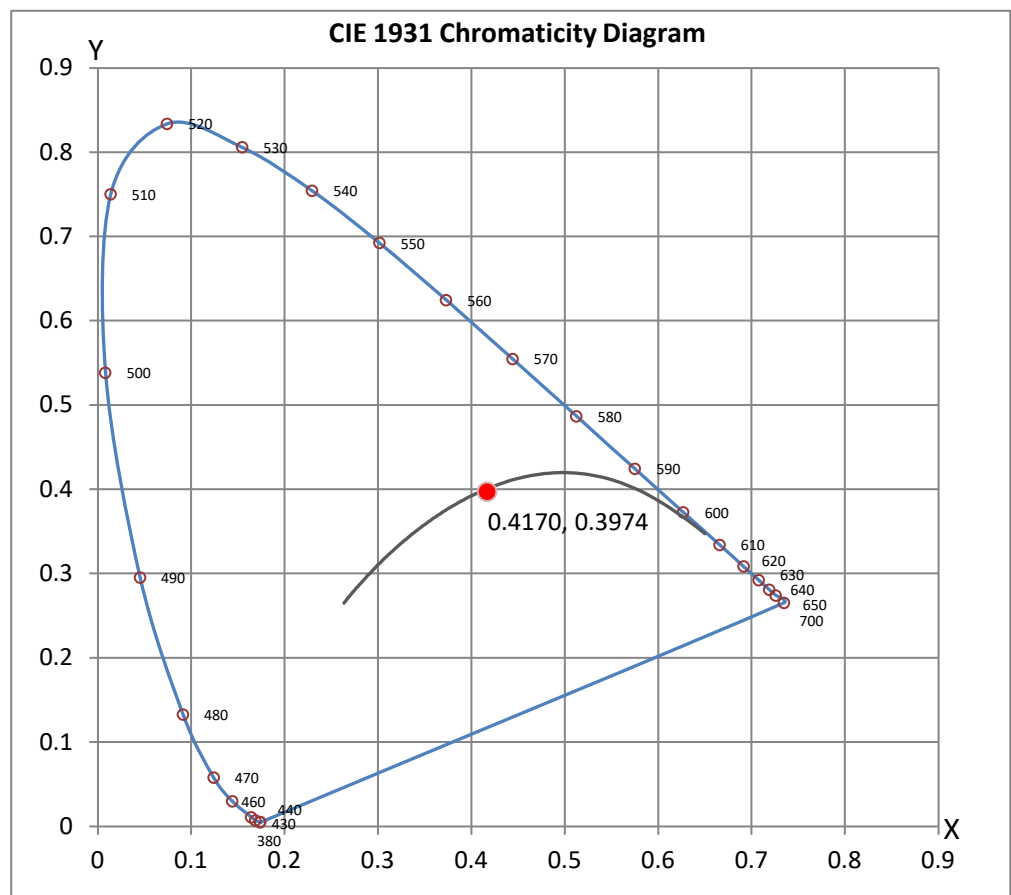


### CRI & CCT

|     |         |
|-----|---------|
| x   | 0.4170  |
| y   | 0.3974  |
| u'  | 0.2405  |
| v'  | 0.5157  |
| CRI | 80.70   |
| CCT | 3311    |
| Duv | 0.00049 |

### R Values

|     |       |
|-----|-------|
| R1  | 77.81 |
| R2  | 88.18 |
| R3  | 96.07 |
| R4  | 78.27 |
| R5  | 78.31 |
| R6  | 84.63 |
| R7  | 83.59 |
| R8  | 59.04 |
| R9  | 2.91  |
| R10 | 72.99 |
| R11 | 75.60 |
| R12 | 68.27 |
| R13 | 79.87 |
| R14 | 97.81 |
| R15 | 71.60 |





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## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by :                     JG                    

Test Report Reviewed by:

Steve Kang  
Quality Assurance

*\*Attached are photometric data reports.*