



8165 E. Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Photometric Test Report

IES FLOOD REPORT

PHOTOMETRIC FILENAME : L112310589.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L112310589
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 4/1/2024
[MANUFAC] USTE dba Vista Professional Outdoor Lighting
[LUMCAT] 1045-MF-RGBW-(W)
[LUMINAIRE] 1045 (Accent), Medium 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

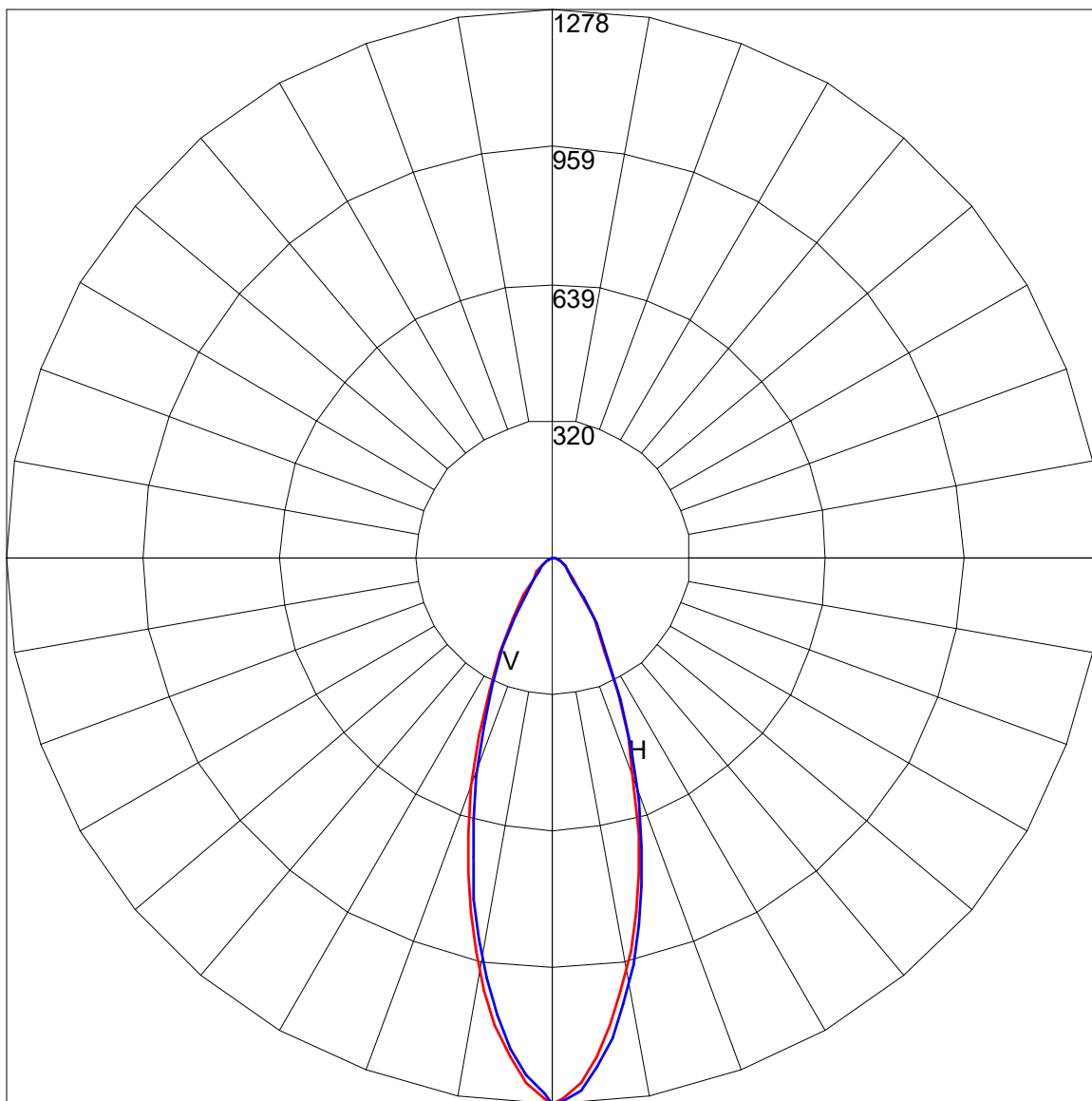
NEMA Type	5 H x 5 V
Maximum Candela	1278
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	35.7
Vertical Beam Angle (50%)	35.7
Horizontal Field Angle (10%)	72.7
Vertical Field Angle (10%)	72.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	268
Beam Efficiency	N.A.
Field Lumens	551
Field Efficiency	N.A.
Spill Lumens	126
Luminaire Lumens	677
Total Efficiency	N.A.
Total Luminaire Watts	21.69
Ballast Factor	1.00

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AXIAL CANDELA

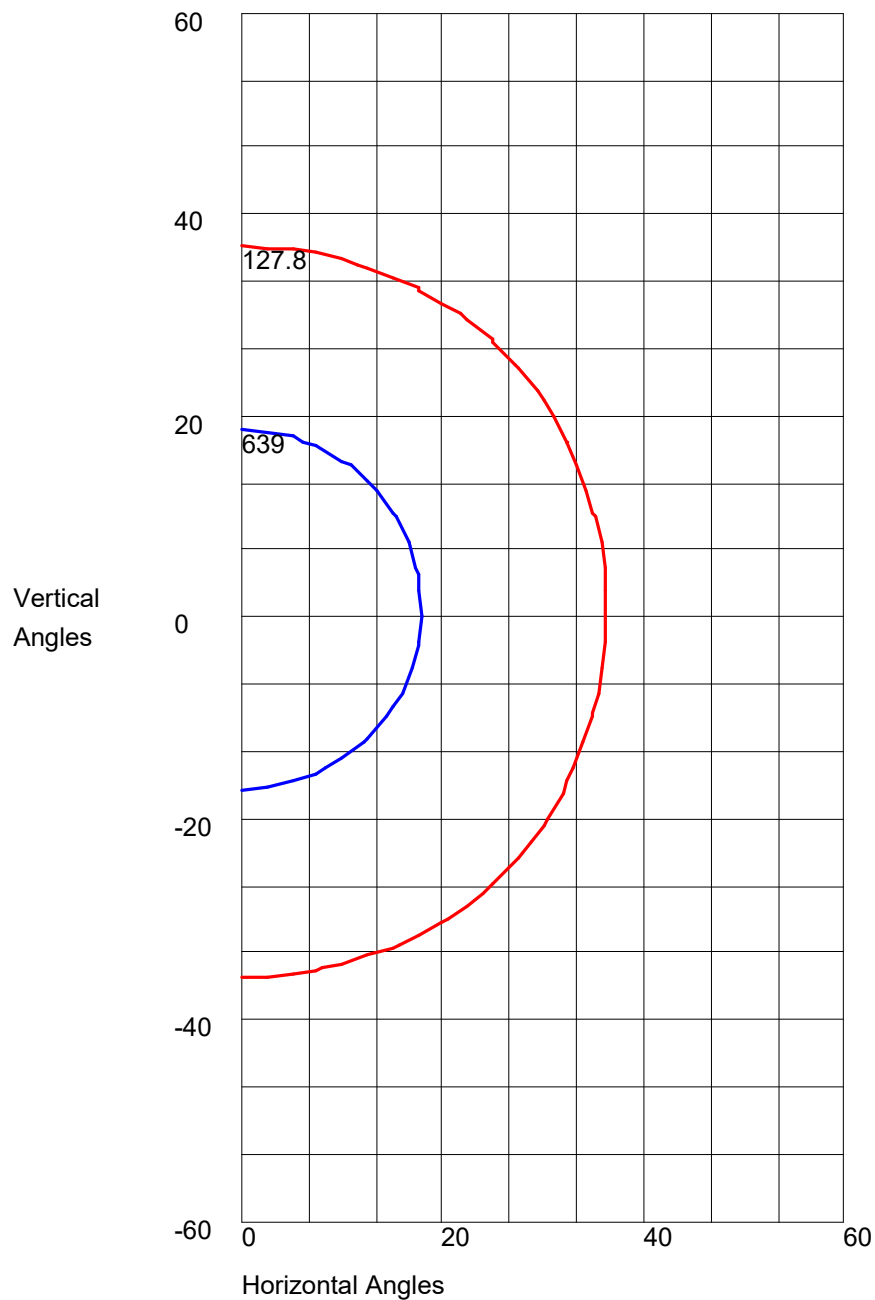
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	1
75	4	75	4
65	18	65	19
55	33	55	34
47.5	50	47.5	51
42.5	71	42.5	74
37.5	112	37.5	117
33	174	33	183
29	254	29	267
25.5	352	25.5	371
22.5	454	22.5	478
19.5	571	19.5	599
17	675	17	707
15	763	15	796
13	852	13	885
11	941	11	972
9	1026	9	1056
7	1105	7	1130
5	1173	5	1196
3	1228	3	1246
1	1266	1	1275
0	1278	0	1278
-1	1266	-1	1255
-3	1228	-3	1212
-5	1173	-5	1151
-7	1105	-7	1078
-9	1026	-9	996
-11	941	-11	908
-13	852	-13	818
-15	763	-15	729
-17	675	-17	643
-19.5	571	-19.5	540
-22.5	454	-22.5	430
-25.5	352	-25.5	334
-29	254	-29	242
-33	174	-33	166
-37.5	112	-37.5	107
-42.5	71	-42.5	68
-47.5	50	-47.5	47
-55	33	-55	32
-65	18	-65	18
-75	4	-75	4
-85	0	-85	0
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 1278 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 1278 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 639
10% Maximum Candela = 127.8



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Report No: L112310589



Report No: L112310589

Issue Date: 4/2/2024

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-MF-(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: 3/29/24

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

Manufacturer:	USTE dba Vista Professional Outdoor Lighting
Model Number:	1045-MF-(W)
Driver Model Number:	eldoLED PW50S-M4Z0X1, QTY:1

Test Summary

Total Lumens:	677.00
Efficacy:	31.21
Color Redering Index:	80.7
Correlated Color Temperature:	3309
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.1852
Input Power (W):	21.69
Input Power Factor:	0.9761
Current ATHD (%):	11.0%

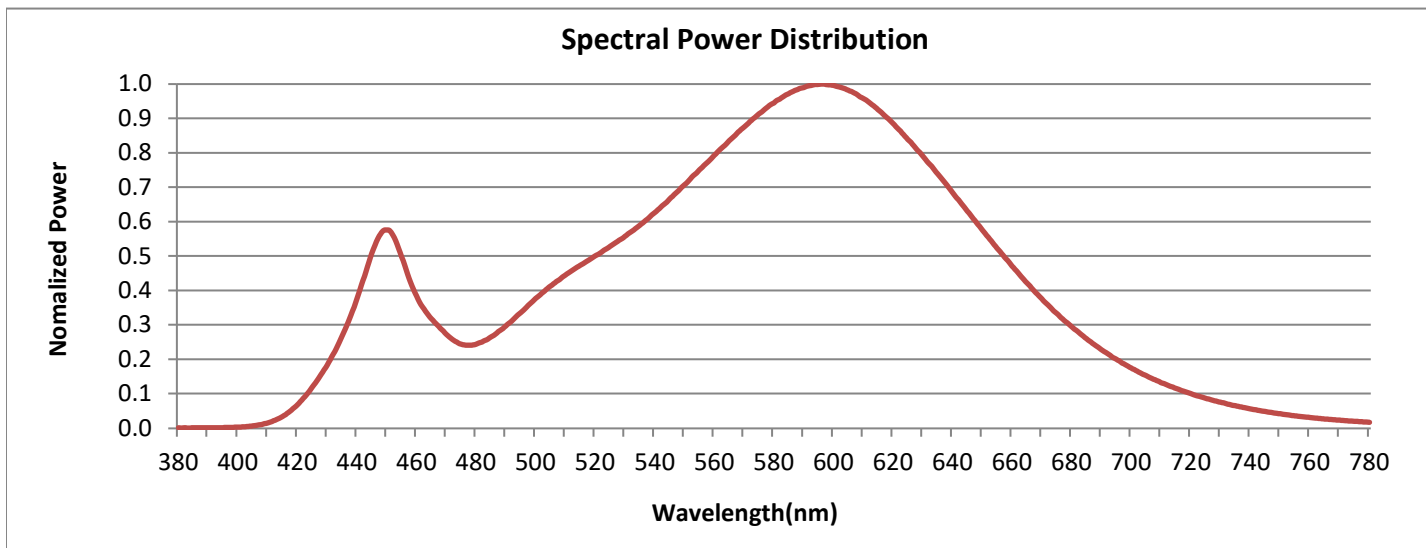
Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:55
Total Operating Time (Hours):	1:30



FIG. 1 LUMINAIRE

Colorimetry Test Results

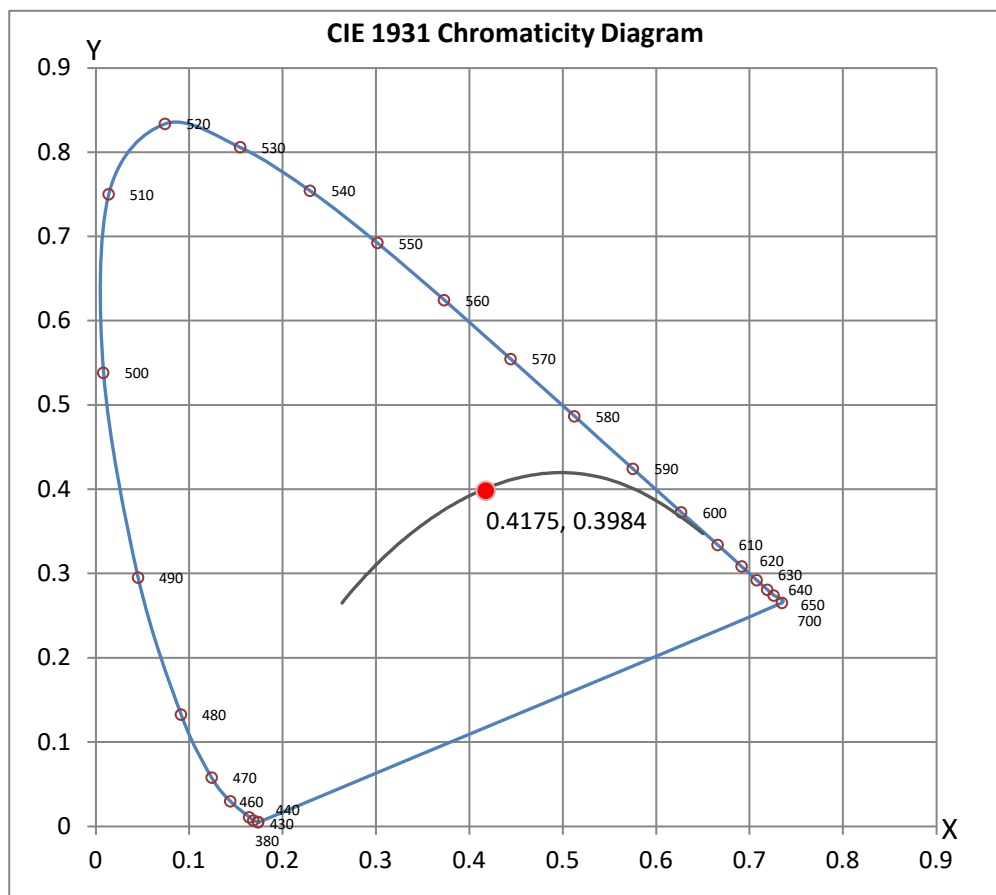


CRI & CCT

x	0.4175
y	0.3984
u'	0.2404
v'	0.5162
CRI	80.70
CCT	3309
Duv	0.00082

R Values

R1	77.67
R2	88.08
R3	96.12
R4	78.19
R5	78.16
R6	84.51
R7	83.63
R8	58.88
R9	2.40
R10	72.79
R11	75.50
R12	67.88
R13	79.73
R14	97.83
R15	71.37



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.

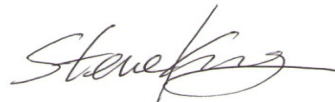
Electrical measurements are measured using the listed equipment.

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.*