



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

Report No: L092112403



**Report No:** L092112403

**Issue Date:** 10/8/2021

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

**Model Number:** 1142-X-NS-30-A-MV-ND

**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:** 10/3/21

**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	4/7/23
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
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>	1142-X-NS-30-A-MV-ND
<b>Driver Model Number:</b>	ERP PSB30W-1050-27.5

**Test Summary**

<b>Total Lumens:</b>	1821.00
<b>Efficacy:</b>	70.14
<b>Color Redering Index:</b>	81.9
<b>Correlated Color Temperature:</b>	3254
<b>Input Voltage (VAC/60Hz):</b>	120.00
<b>Input Current (Amp):</b>	0.2221
<b>Input Power (W):</b>	25.96
<b>Input Power Factor:</b>	0.9742
<b>Current ATHD (%):</b>	14.4%

**Test Condition**

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:30
<b>Total Operating Time (Hours):</b>	0:55

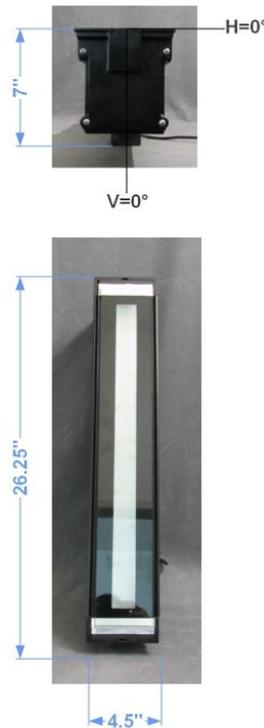
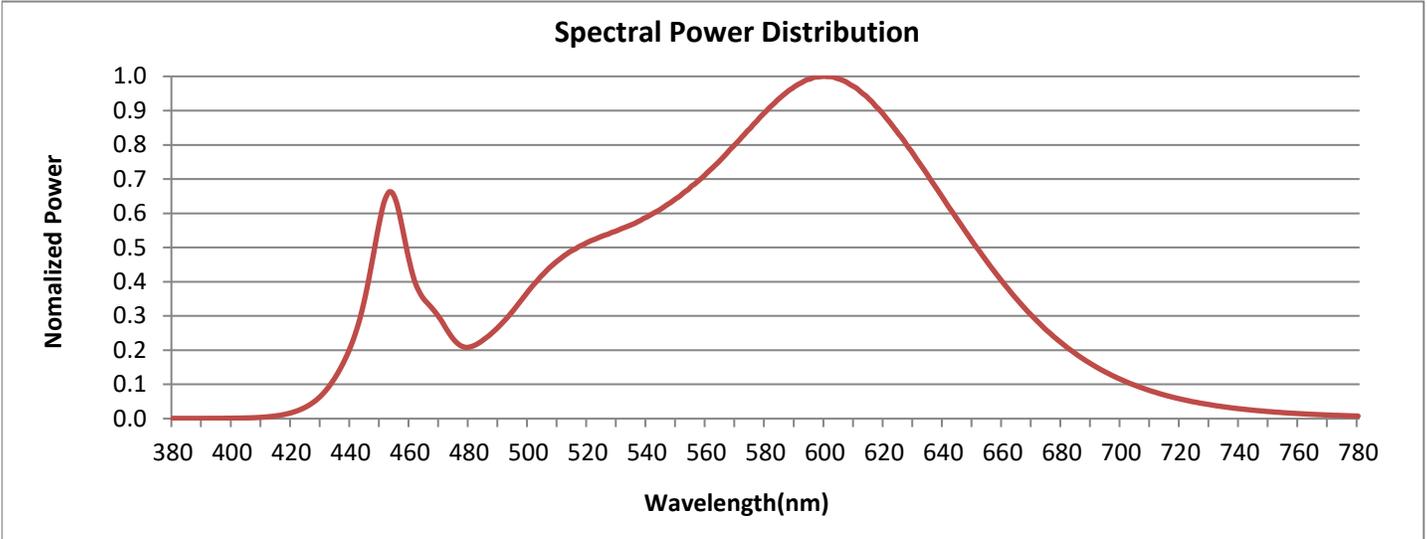


FIG. 1 LUMINAIRE

**Colorimetry Test Results**

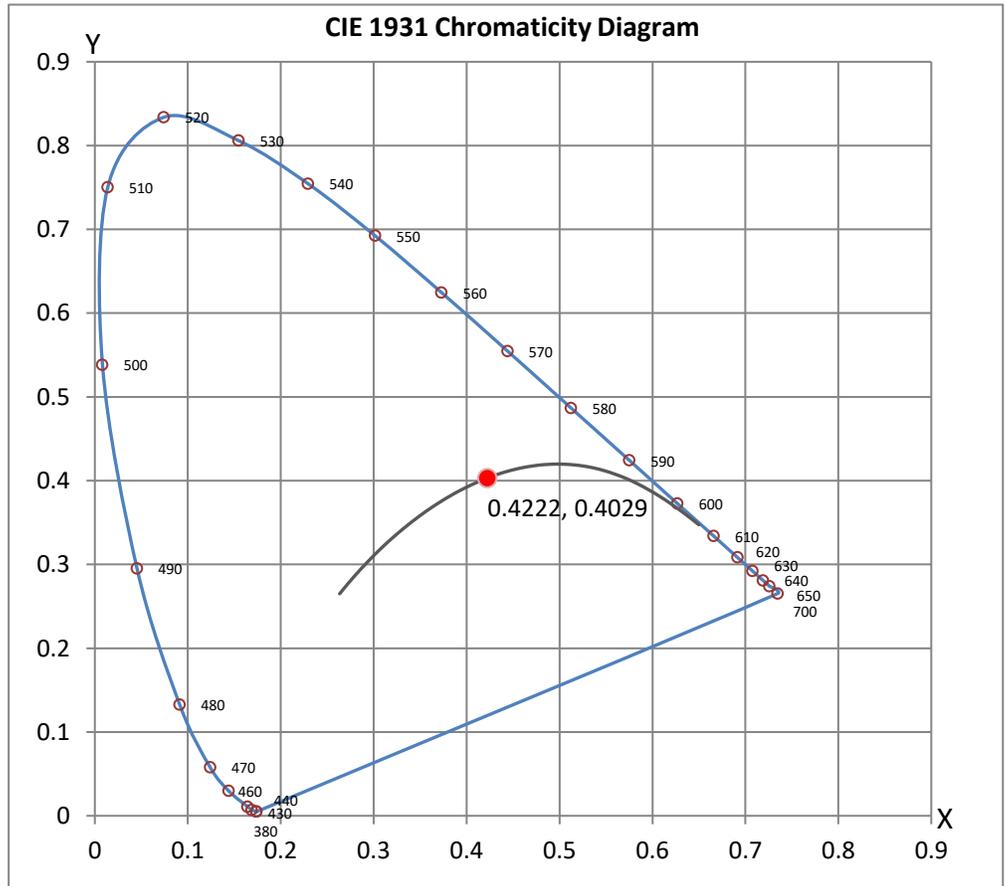


**CRI & CCT**

x	0.4222
y	0.4029
u'	0.2416
v'	0.5187
CRI	81.90
CCT	3254
Duv	0.00183

**R Values**

R1	79.77
R2	90.25
R3	96.34
R4	80.13
R5	80.49
R6	88.57
R7	82.40
R8	56.94
R9	-0.56
R10	78.23
R11	79.76
R12	67.15
R13	82.30
R14	98.46
R15	71.41



## 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 :                     Kunajn Modi                    

Test Report Reviewed by:



Steve Kang  
Quality Assurance

*\*Attached are photometric data reports.*



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# Photometric Test Report

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L092112403.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L092112403  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 10/3/21  
[MANUFAC] USTE dba Vista Professional Outdoor Lighting  
[LUMCAT] 1142-X-NS-30-A-MV-ND  
[LUMINAIRE] LED LINEAR INGRADE-NARROW  
[BALLASTCAT] ERP PSB40W-1400-27  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC  
[TEST PROCEDURE] IESNA:LM-79-08

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

**CHARACTERISTICS**

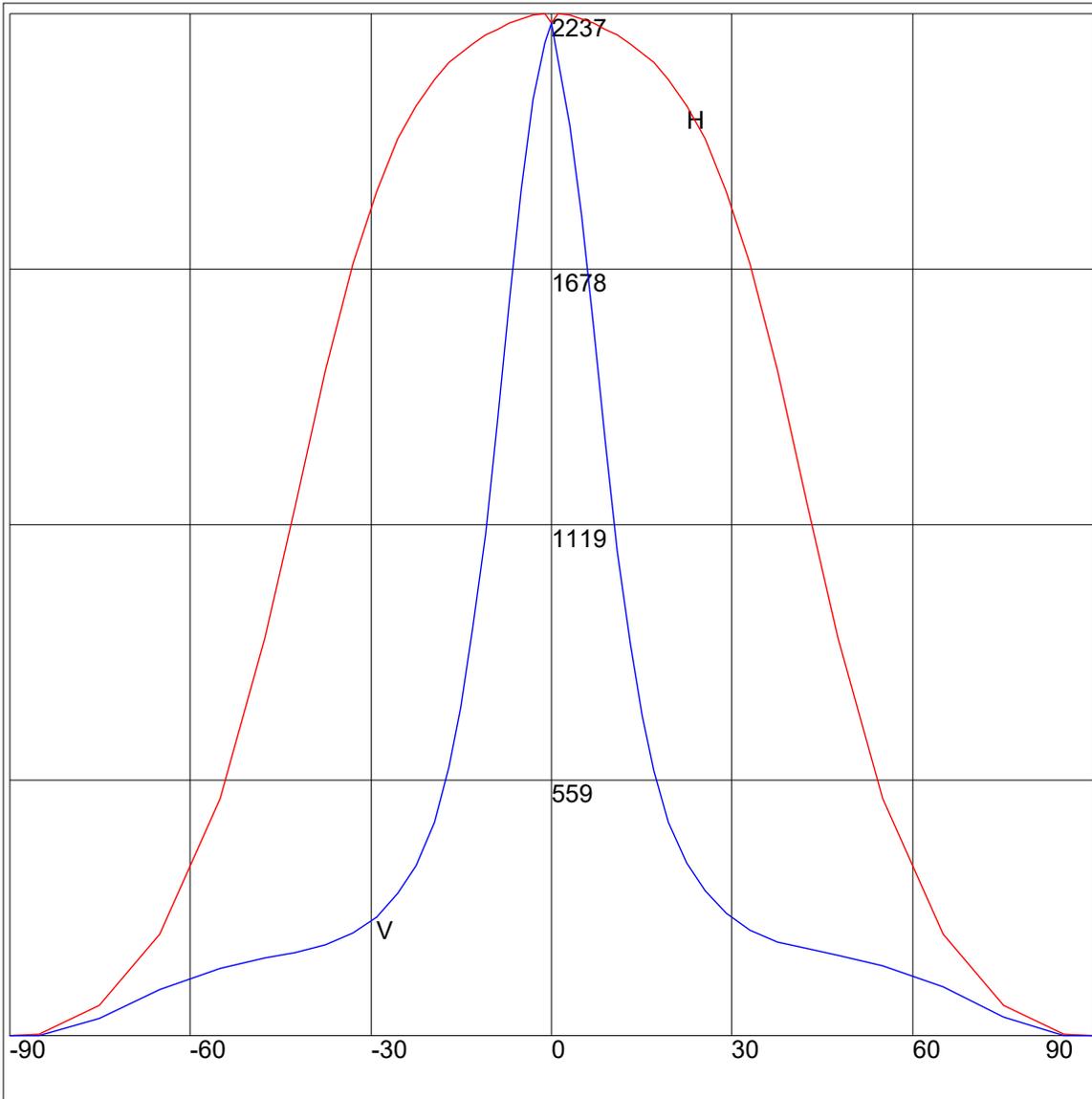
NEMA Type	6 H x 4 V
Maximum Candela	2237.191
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	86.4
Vertical Beam Angle (50%)	21.5
Horizontal Field Angle (10%)	130.0
Vertical Field Angle (10%)	67.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	728
Beam Efficiency	N.A.
Field Lumens	1452
Field Efficiency	N.A.
Spill Lumens	369
Luminaire Lumens	1821
Total Efficiency	N.A.
Total Luminaire Watts	25.96
Ballast Factor	1.00

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L092112403.IES**

**AXIAL CANDELA**

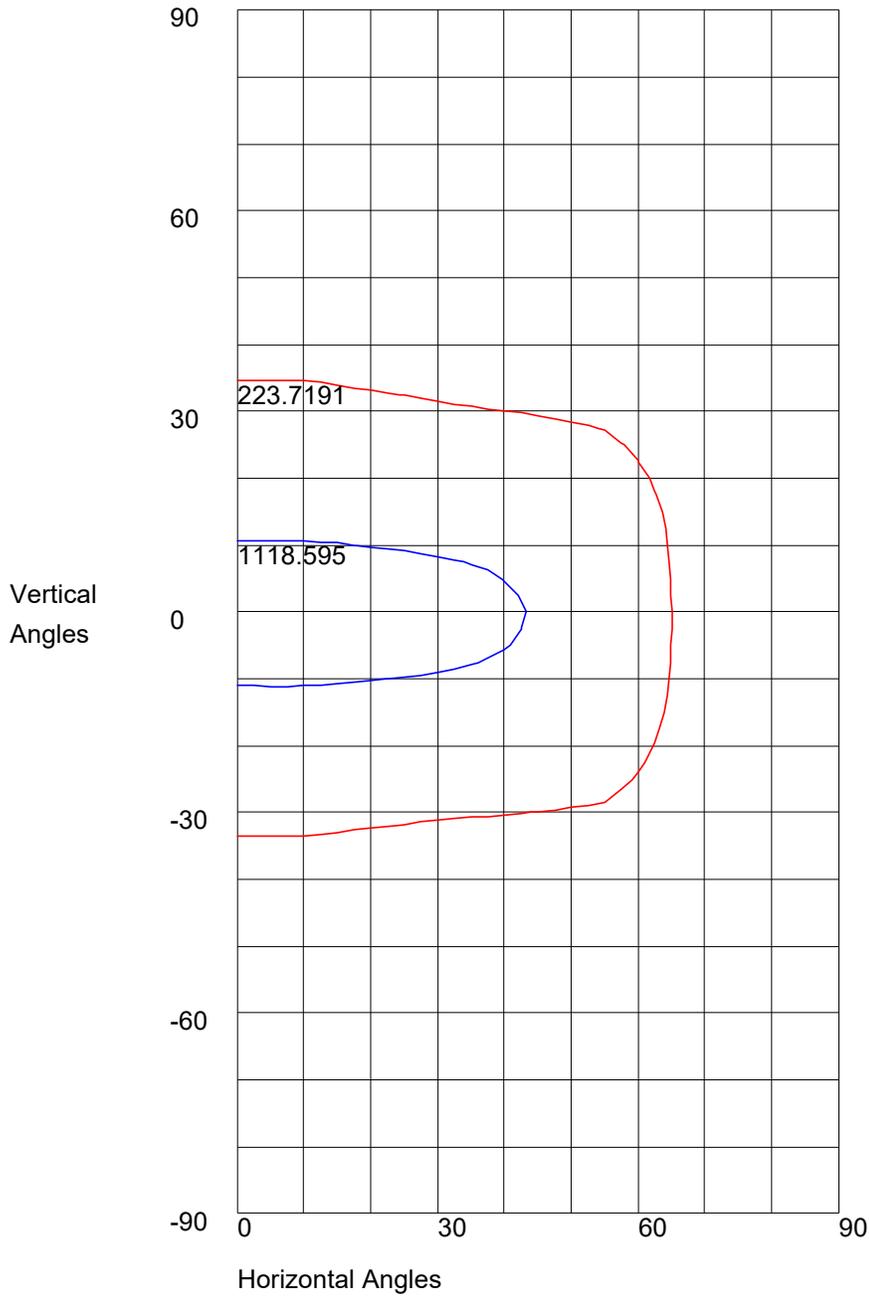
DEG.	HOR.	DEG.	VERT.
90	2.53	90	1.229
85	5.662	85	1.637
75	68.279	75	42.155
65	223.324	65	106.682
55	520.247	55	152.93
47.5	871.262	47.5	176.531
42.5	1158.294	42.5	190.719
37.5	1457.06	37.5	207.362
33	1689.797	33	233.01
29	1849.137	29	269.298
25.5	1962.301	25.5	317.591
22.5	2034.263	22.5	378.709
19.5	2093.607	19.5	468.475
17	2129.963	17	579.113
15	2149.813	15	701.348
13	2172.322	13	861.098
11	2190.125	11	1063.003
9	2201.858	9	1301.197
7	2215.909	7	1555.352
5	2225.596	5	1793.136
3	2233.03	3	1991.358
1	2237.191	1	2135.556
0	2218.156	0	2218.156
-1	2237.191	-1	2174.301
-3	2233.03	-3	2050.702
-5	2225.596	-5	1851.798
-7	2215.909	-7	1608.42
-9	2201.858	-9	1347.444
-11	2190.125	-11	1099.292
-13	2172.322	-13	890.429
-15	2149.813	-15	719.083
-17	2129.963	-17	587.981
-19.5	2093.607	-19.5	469.43
-22.5	2034.263	-22.5	374.343
-25.5	1962.301	-25.5	311.452
-29	1849.137	-29	262.068
-33	1689.797	-33	224.961
-37.5	1457.06	-37.5	200.268
-42.5	1158.294	-42.5	182.67
-47.5	871.262	-47.5	169.982
-55	520.247	-55	147.882
-65	223.324	-65	102.317
-75	68.279	-75	39.699
-85	5.662	-85	1.91
-90	2.53	-90	1.093

AXIAL CANDELA DISPLAY



Maximum Candela = 2237.191 Located At Horizontal Angle = -1, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2237.191 Located At Horizontal Angle = -1, Vertical Angle = 0  
50% Maximum Candela = 1118.5955  
10% Maximum Candela = 223.7191