



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

Report No: L092112404



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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-MF-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

Manufacturer:	USTE dba Vista Professional Outdoor Lighting
Model Number:	1142-X-MF-30-A-MV-ND
Driver Model Number:	ERP PSB30W-1050-27.5

Test Summary

Total Lumens:	2696.00
Efficacy:	103.91
Color Rendering Index:	81.5
Correlated Color Temperature:	3238
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.2220
Input Power (W):	25.95
Input Power Factor:	0.9737
Current ATHD (%):	15.6%

Test Condition

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

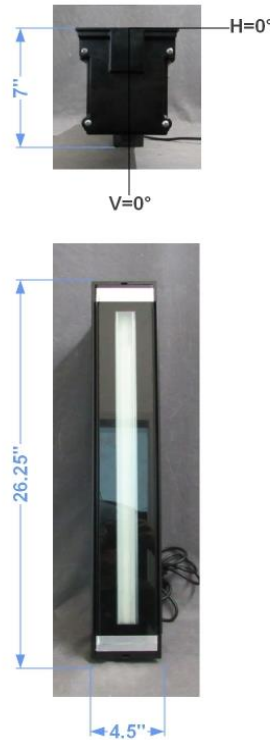
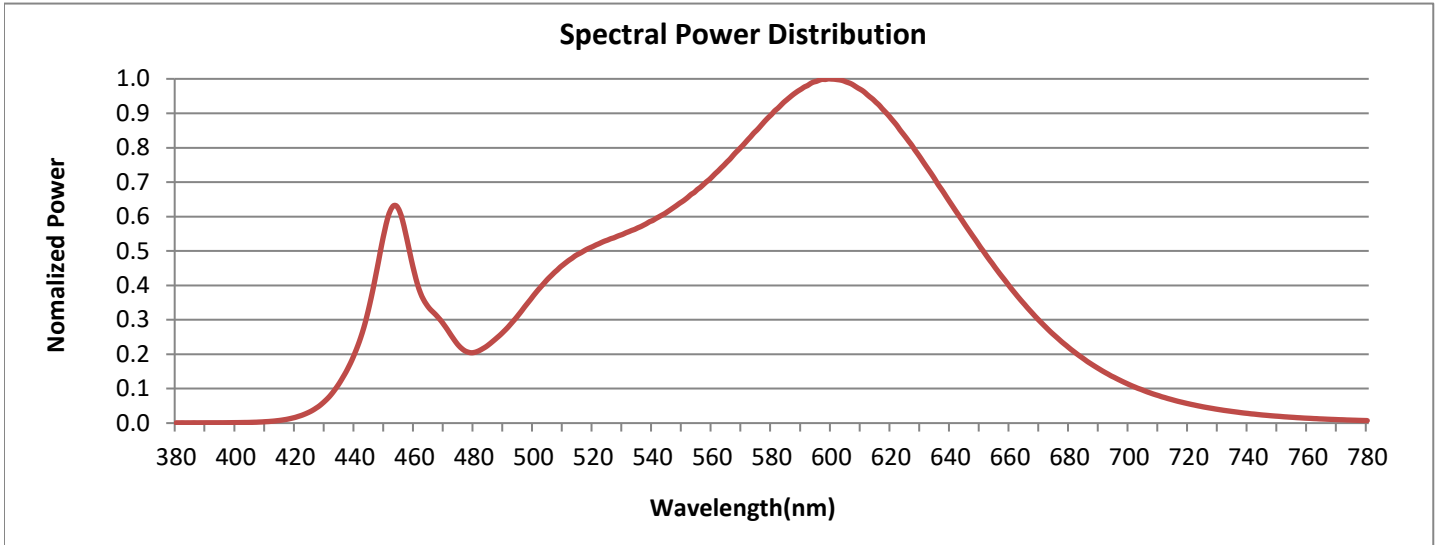


FIG. 1 LUMINAIRE

Colorimetry Test Results

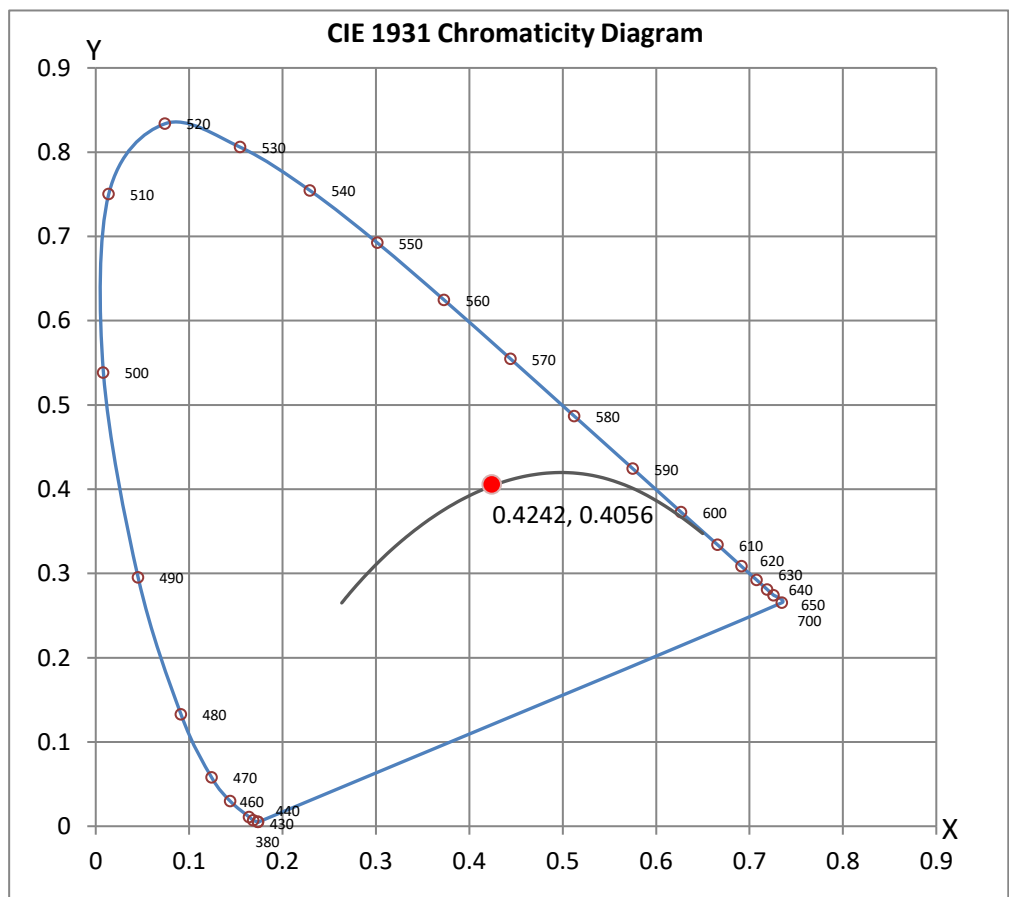


CRI & CCT

x	0.4242
y	0.4056
u'	0.2418
v'	0.5201
CRI	81.50
CCT	3238
Duv	0.00259

R Values

R1	79.23
R2	89.84
R3	96.52
R4	79.75
R5	79.90
R6	88.12
R7	82.40
R8	56.32
R9	-2.30
R10	77.38
R11	79.29
R12	66.36
R13	81.74
R14	98.51
R15	70.66



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 : L092112404.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L092112404
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 10/3/21
[MANUFAC] USTE dba Vista Professional Outdoor Lighting
[LUMCAT] 1142-X-MF-30-A-MV-ND
[LUMINAIRE] LED LINEAR INGRADE-MEDIUM FLOOD
[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

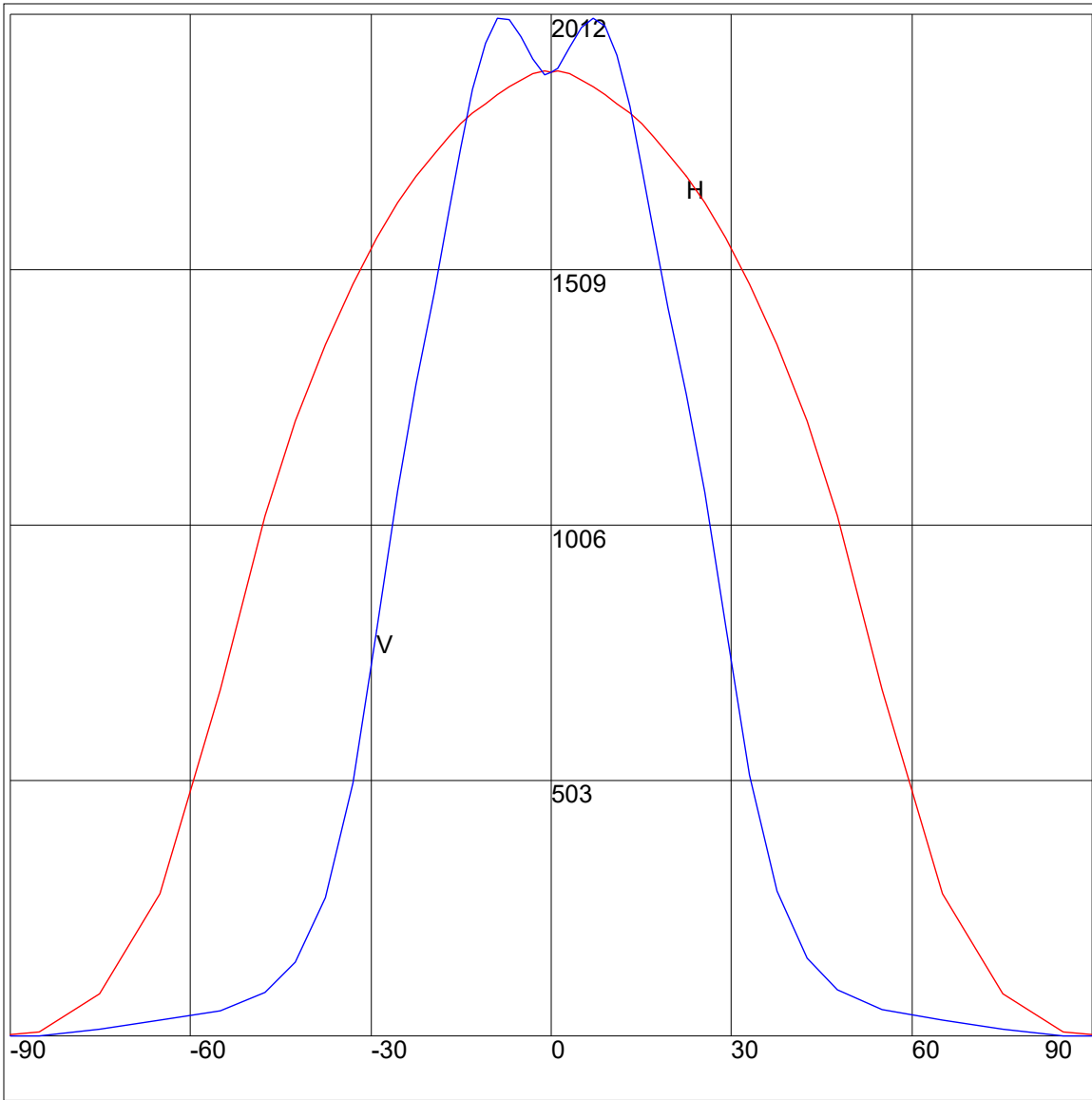
NEMA Type	7 H x 5 V
Maximum Candela	2012.386
Maximum Candela Angle	-3H -7V
Horizontal Beam Angle (50%)	94.1
Vertical Beam Angle (50%)	52.9
Horizontal Field Angle (10%)	137.3
Vertical Field Angle (10%)	81.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1781
Beam Efficiency	N.A.
Field Lumens	2511
Field Efficiency	N.A.
Spill Lumens	185
Luminaire Lumens	2696
Total Efficiency	N.A.
Total Luminaire Watts	25.95
Ballast Factor	1.00

IES FLOOD REPORT
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AXIAL CANDELA

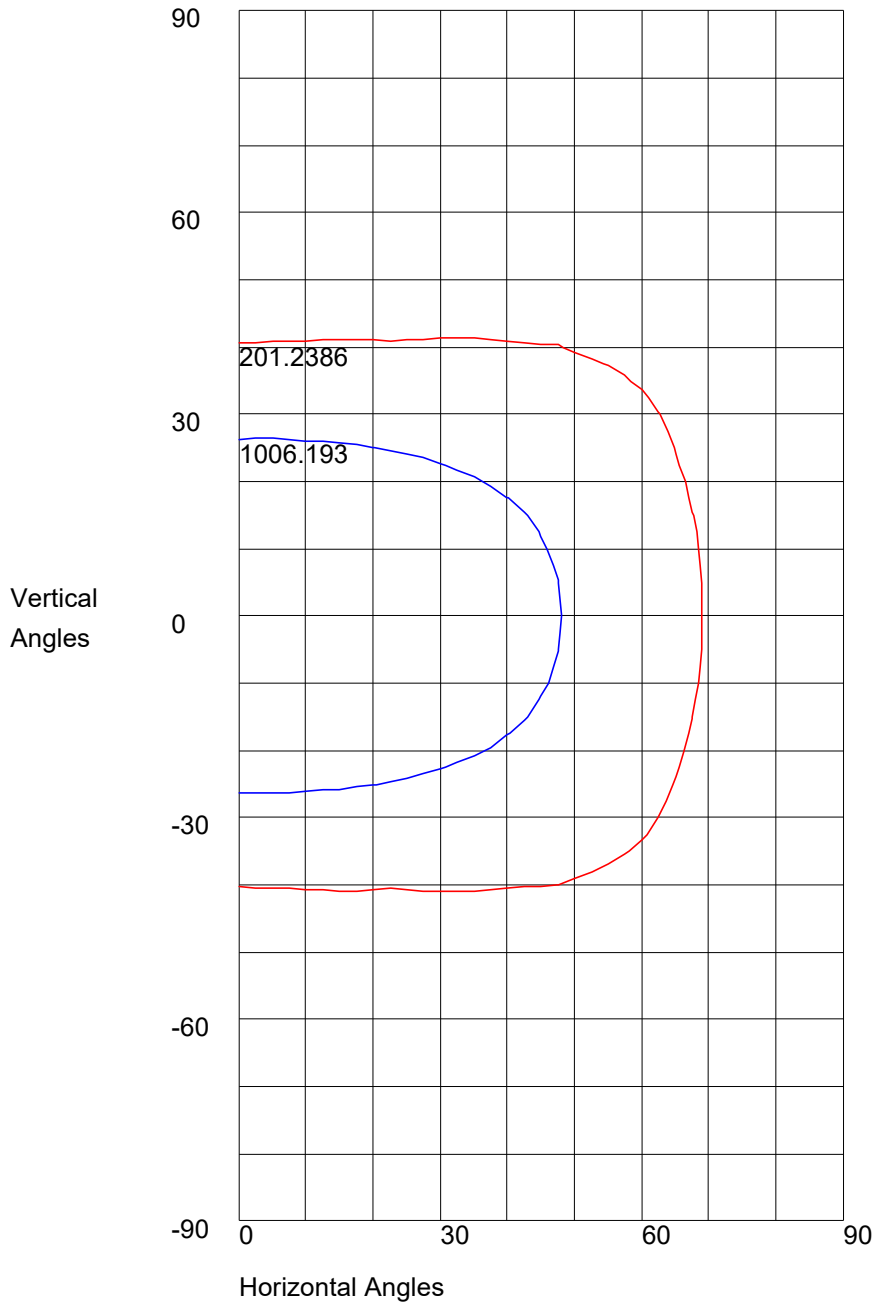
DEG.	HOR.	DEG.	VERT.
90	3.42	90	.956
85	8.049	85	1.637
75	83.149	75	15.279
65	280.826	65	33.287
55	683.067	55	54.023
47.5	1025.965	47.5	92.767
42.5	1211.091	42.5	153.748
37.5	1362.656	37.5	285.259
33	1482.366	33	513.221
29	1571.245	29	808.03
25.5	1641.639	25.5	1072.144
22.5	1692.388	22.5	1263.135
19.5	1738.09	19.5	1434.618
17	1770.626	17	1584.546
15	1796.274	15	1708.009
13	1817.215	13	1830.516
11	1837.201	11	1932.287
9	1854.117	9	1990.13
7	1870.556	7	2003.909
5	1883.925	5	1986.447
3	1894.566	3	1947.294
1	1899.818	1	1906.23
0	1897.072	0	1897.072
-1	1899.818	-1	1893.543
-3	1894.566	-3	1923.42
-5	1883.925	-5	1968.848
-7	1870.556	-7	2001.863
-9	1854.117	-9	2004.864
-11	1837.201	-11	1955.206
-13	1817.215	-13	1865.713
-15	1796.274	-15	1748.663
-17	1770.626	-17	1622.745
-19.5	1738.09	-19.5	1466.541
-22.5	1692.388	-22.5	1283.599
-25.5	1641.639	-25.5	1074.872
-29	1571.245	-29	798.344
-33	1482.366	-33	499.443
-37.5	1362.656	-37.5	273.118
-42.5	1211.091	-42.5	146.654
-47.5	1025.965	-47.5	87.993
-55	683.067	-55	51.022
-65	280.826	-65	31.923
-75	83.149	-75	13.915
-85	8.049	-85	1.364
-90	3.42	-90	.82

AXIAL CANDELA DISPLAY



Maximum Candela = 2012.386 Located At Horizontal Angle = -3, Vertical Angle = -7
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2012.386 Located At Horizontal Angle =-3, Vertical Angle =-7
50% Maximum Candela = 1006.193
10% Maximum Candela = 201.2386