



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

Report No: L112210705



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Issue Date: 11/11/2022

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

Model Number: 1054-X-WF-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: 11/11/22

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:	1054-X-WF-30-A-MV-ND
Driver Model Number:	ERP PSB30W-1050-27.5

Test Summary

Total Lumens:	5099.00
Efficacy:	97.24
Color Redering Index:	81.9
Correlated Color Temperature:	3125
Input Voltage (VAC/60Hz):	120.03
Input Current (Amp):	0.4460
Input Power (W):	52.44
Input Power Factor:	0.9795
Current ATHD (%):	14.1%

Test Condition

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

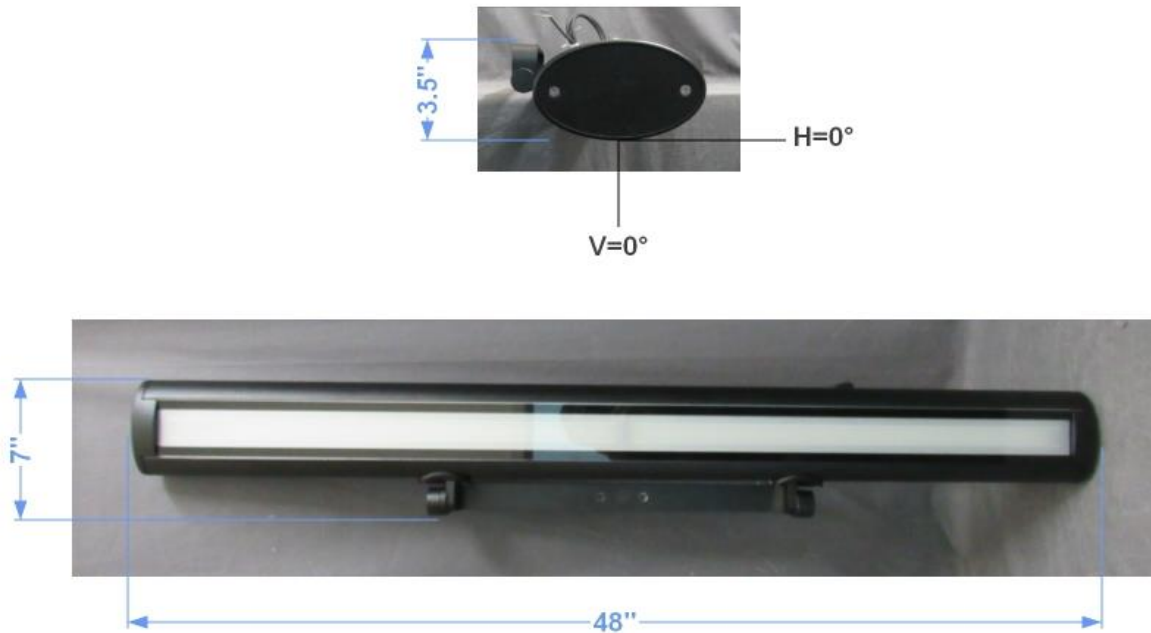
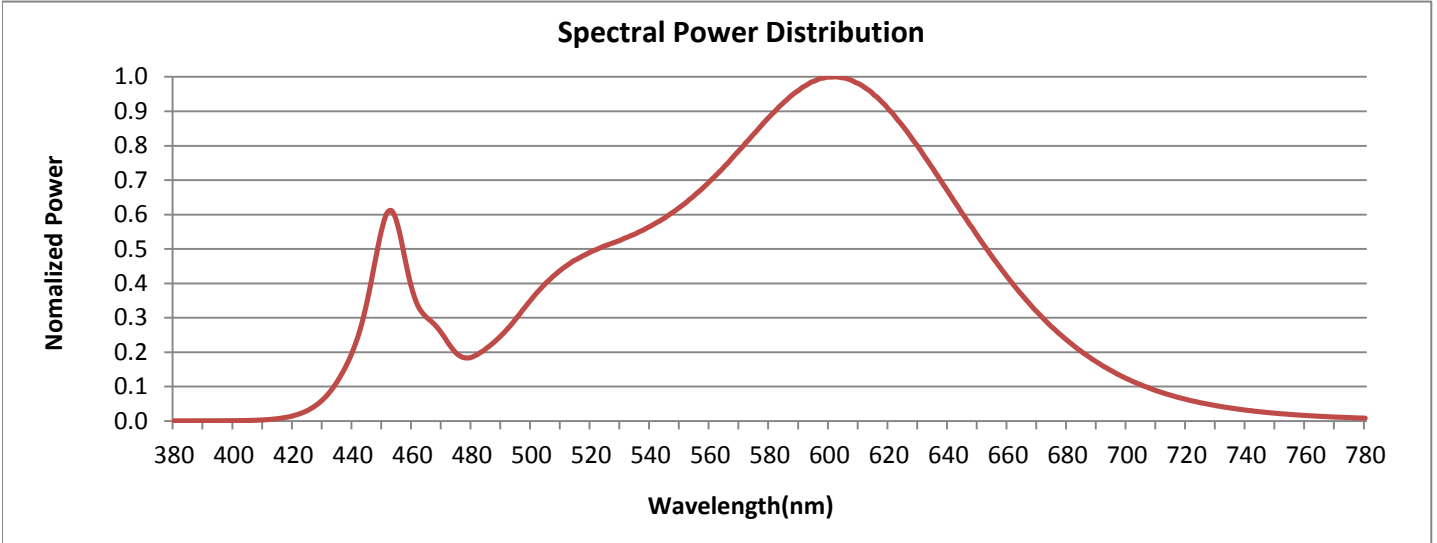


FIG. 1 LUMINAIRE

Colorimetry Test Results

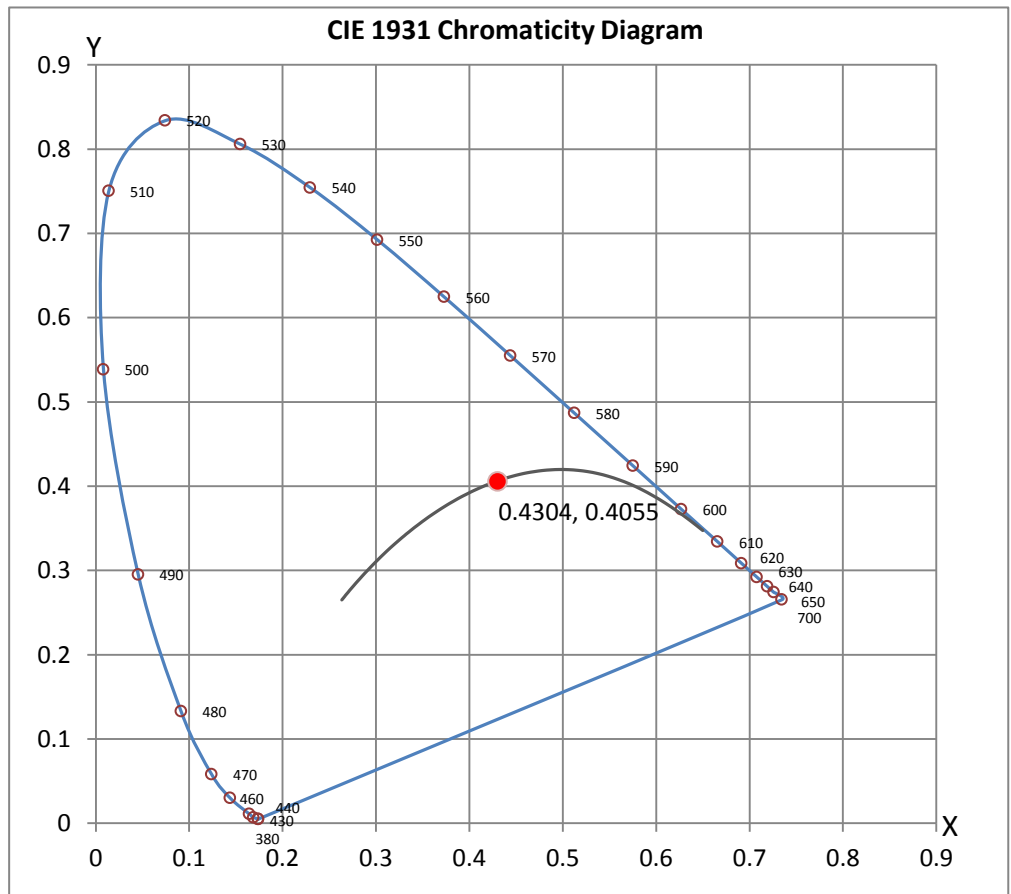


CRI & CCT

x	0.4304
y	0.4055
u'	0.2458
v'	0.5210
CRI	81.90
CCT	3125
Duv	0.00153

R Values

R1	79.84
R2	90.19
R3	96.48
R4	80.41
R5	80.61
R6	88.75
R7	82.32
R8	56.93
R9	0.89
R10	78.30
R11	80.15
R12	68.55
R13	82.24
R14	98.56
R15	71.54



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 : Kunjan 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 : L112210705.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L112210705
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 11/11/2022
[MANUFAC] USTE dba Vista Professional Outdoor Lighting
[LUMCAT] 1054-X-WF-30-A-MV-ND
[LUMINAIRE] LED LINEAR FLOODLIGHT-WIDE FLOOD
[BALLASTCAT] ERP PSB30W-1050-27.5
[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

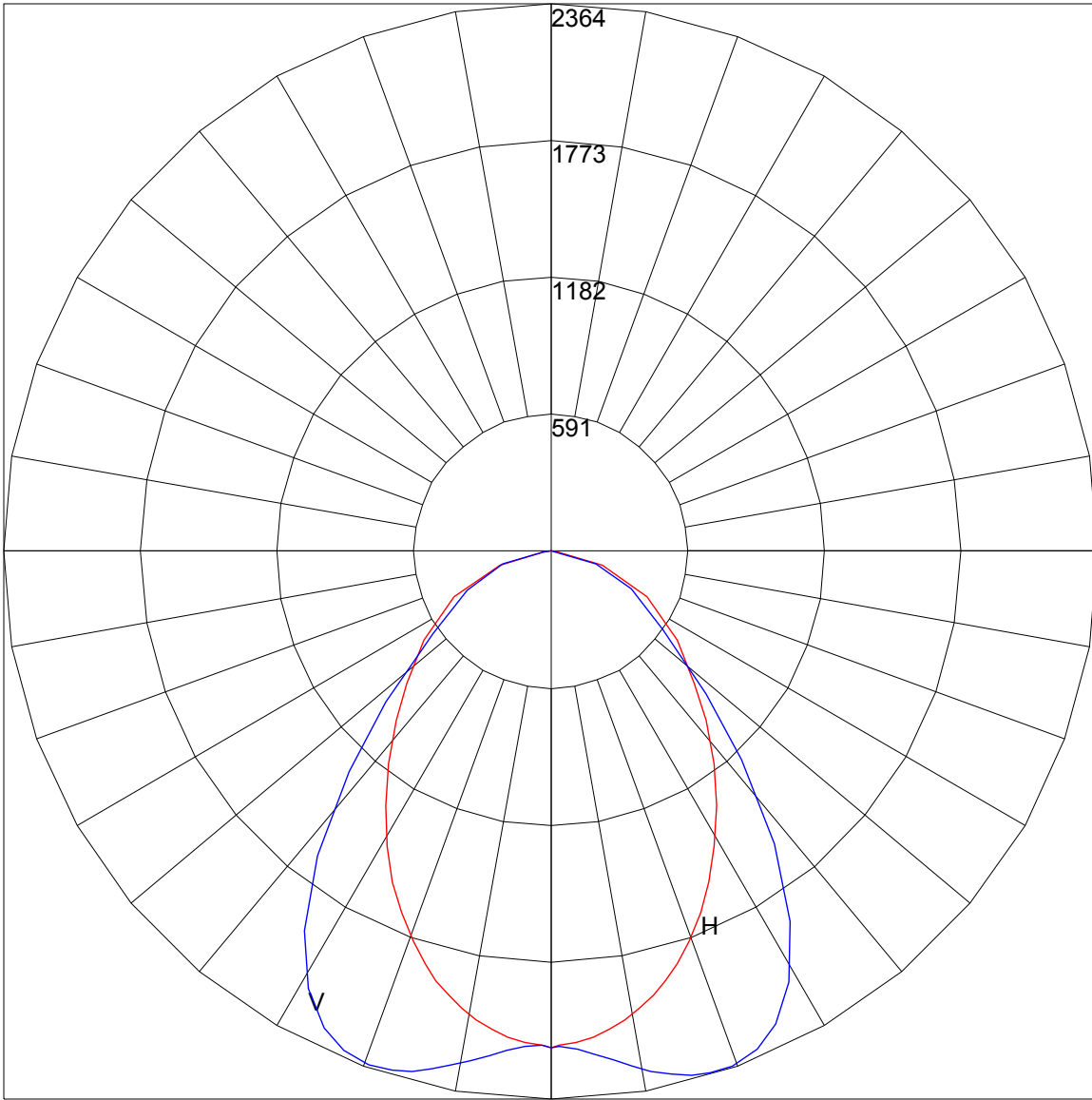
NEMA Type	7 H x 7 V
Maximum Candela	2364
Maximum Candela Angle	-1H 17V
Horizontal Beam Angle (50%)	78.8
Vertical Beam Angle (50%)	87.5
Horizontal Field Angle (10%)	148.0
Vertical Field Angle (10%)	147.0
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	3182
Beam Efficiency	N.A.
Field Lumens	4951
Field Efficiency	N.A.
Spill Lumens	148
Luminaire Lumens	5099
Total Efficiency	N.A.
Total Luminaire Watts	52.43
Ballast Factor	1.00

IES FLOOD REPORT
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AXIAL CANDELA

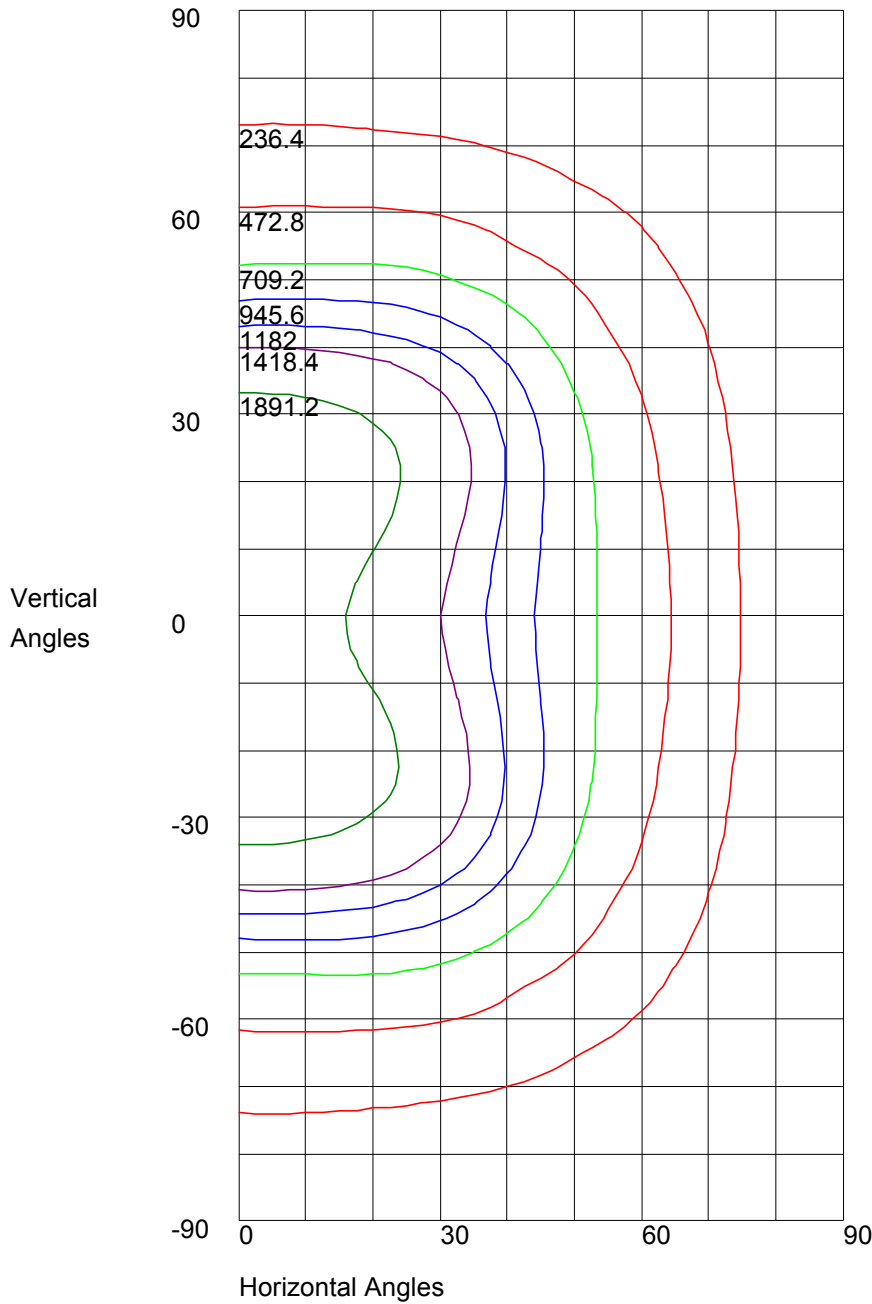
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	31	85	21
75	229	75	201
65	459	65	383
55	667	55	594
47.5	844	47.5	911
42.5	990	42.5	1223
37.5	1155	37.5	1589
33	1313	33	1904
29	1459	29	2127
25.5	1585	25.5	2260
22.5	1688	22.5	2328
19.5	1786	19.5	2356
17	1861	17	2356
15	1916	15	2342
13	1965	13	2317
11	2010	11	2284
9	2048	9	2250
7	2079	7	2213
5	2104	5	2179
3	2122	3	2153
1	2133	1	2137
0	2142	0	2142
-1	2133	-1	2130
-3	2122	-3	2142
-5	2104	-5	2162
-7	2079	-7	2191
-9	2048	-9	2225
-11	2010	-11	2260
-13	1965	-13	2294
-15	1916	-15	2323
-17	1861	-17	2341
-19.5	1786	-19.5	2351
-22.5	1688	-22.5	2332
-25.5	1585	-25.5	2279
-29	1459	-29	2159
-33	1313	-33	1955
-37.5	1155	-37.5	1659
-42.5	990	-42.5	1294
-47.5	844	-47.5	965
-55	667	-55	622
-65	459	-65	396
-75	229	-75	217
-85	31	-85	30
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 2364 Located At Horizontal Angle = -1, Vertical Angle = 17
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2364 Located At Horizontal Angle = -1, Vertical Angle = 17
50% Maximum Candela = 1182
10% Maximum Candela = 236.4