



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

Report No: L112210709



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Issue Date: 11/17/2022

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

Model Number: 1054-X-MF-30-B-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.

Sample Arrival Date:

Date of Tests: 11/17/22

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-MF-30-B-MV-ND
Driver Model Number:	ERP PSB40W-1400-27

Test Summary

Total Lumens:	8155.00
Efficacy:	113.01
Color Redering Index:	82.1
Correlated Color Temperature:	3078
Input Voltage (VAC/60Hz):	120.05
Input Current (Amp):	0.6103
Input Power (W):	72.16
Input Power Factor:	0.9848
Current ATHD (%):	11.5%

Test Condition

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

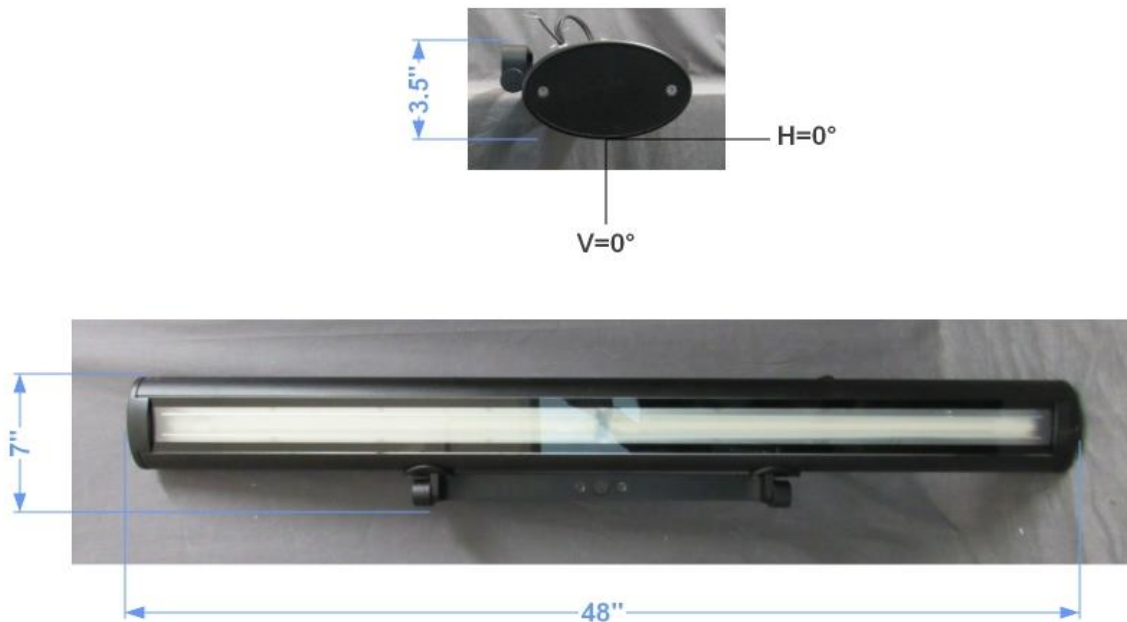
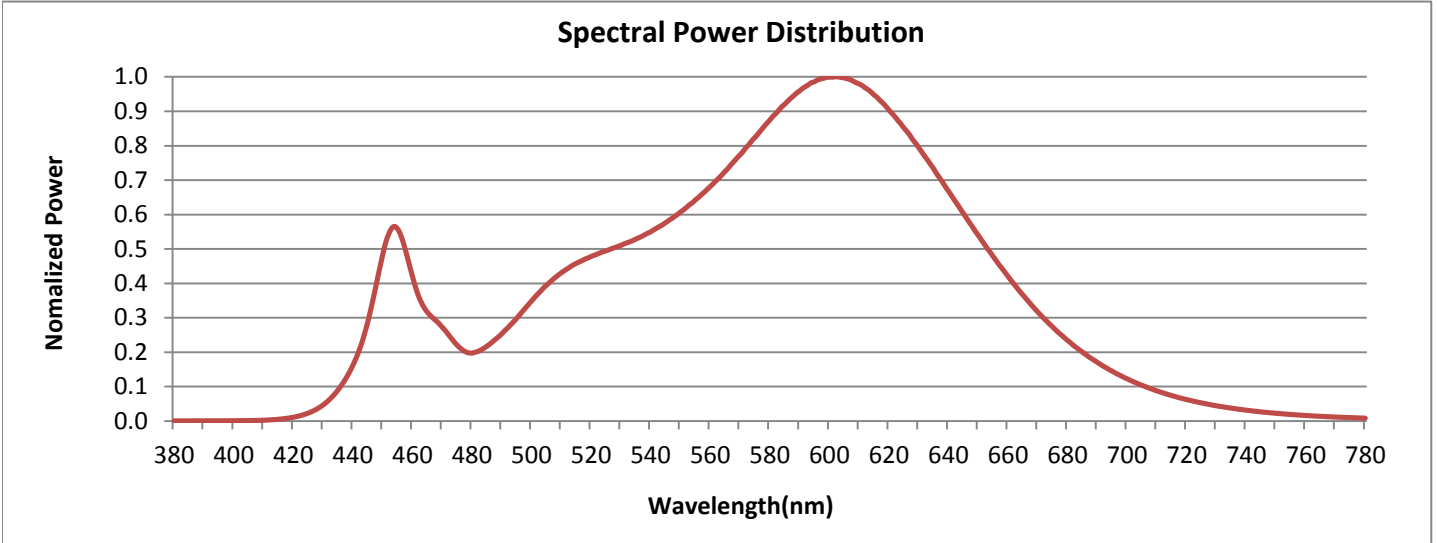


FIG. 1 LUMINAIRE

Colorimetry Test Results

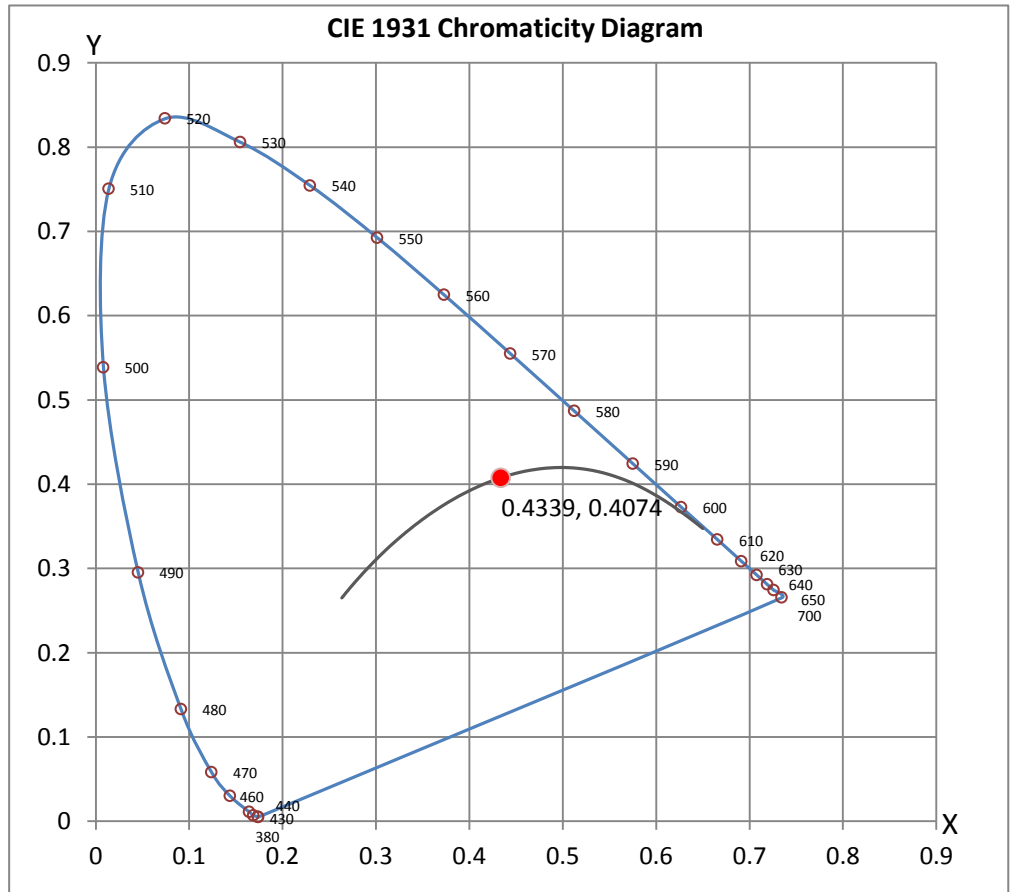


CRI & CCT

x	0.4339
y	0.4074
u'	0.2472
v'	0.5222
CRI	82.10
CCT	3078
Duv	0.00176

R Values

R1	80.27
R2	91.09
R3	95.68
R4	80.20
R5	81.08
R6	90.16
R7	81.74
R8	56.55
R9	1.51
R10	80.40
R11	80.08
R12	69.58
R13	82.89
R14	98.17
R15	71.70



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 : L112210709.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L112210709
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 11/17/2022
[MANUFAC] USTE dba Vista Professional Outdoor Lighting
[LUMCAT] 1054-X-MF-30-B-MV-ND
[LUMINAIRE] LED LINEAR FLOODLIGHT-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

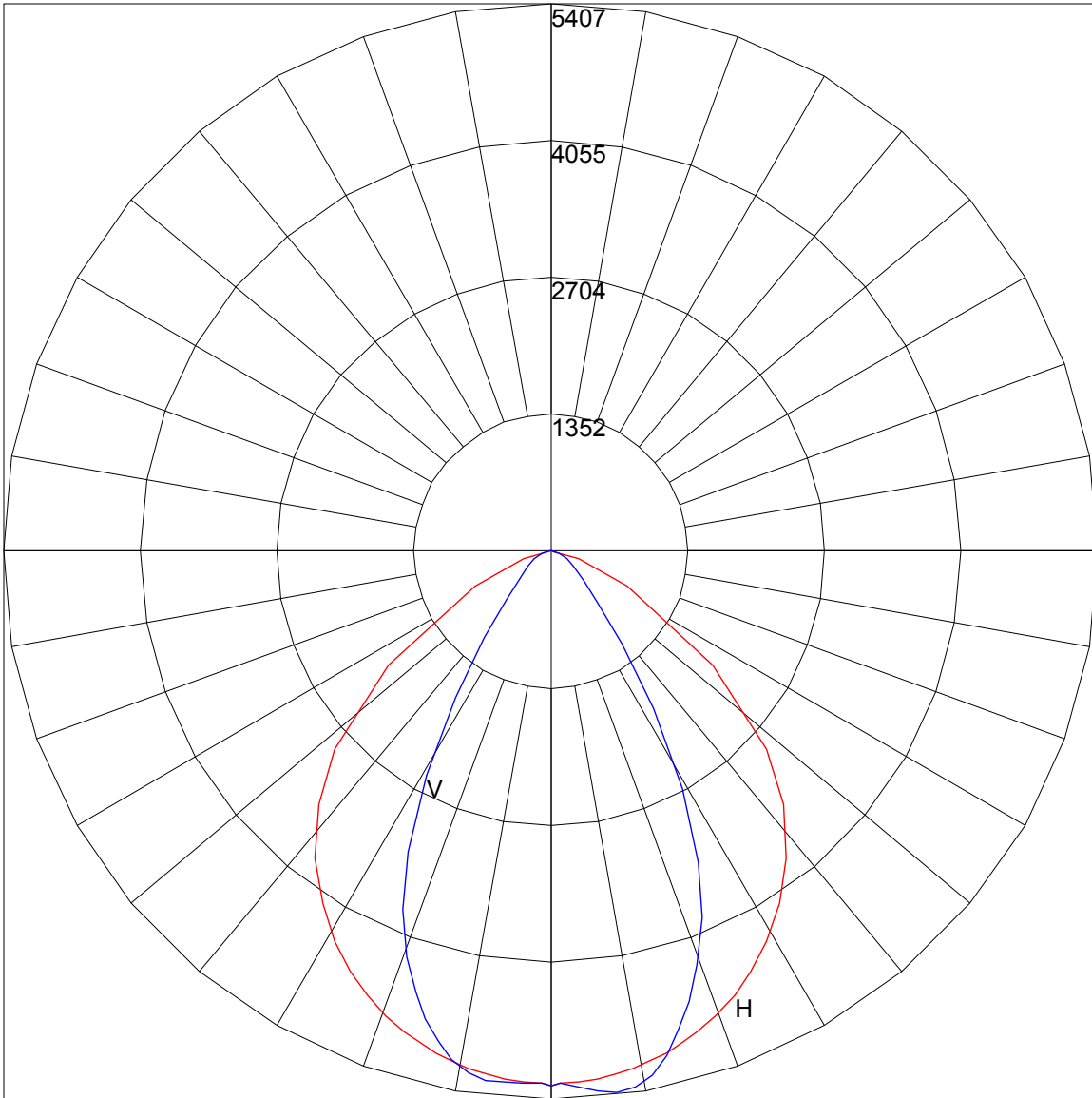
NEMA Type	7 H x 5 V
Maximum Candela	5407
Maximum Candela Angle	-3H 7V
Horizontal Beam Angle (50%)	96.4
Vertical Beam Angle (50%)	57.2
Horizontal Field Angle (10%)	140.0
Vertical Field Angle (10%)	90.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	5419
Beam Efficiency	N.A.
Field Lumens	7563
Field Efficiency	N.A.
Spill Lumens	592
Luminaire Lumens	8155
Total Efficiency	N.A.
Total Luminaire Watts	72.16
Ballast Factor	1.00

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AXIAL CANDELA

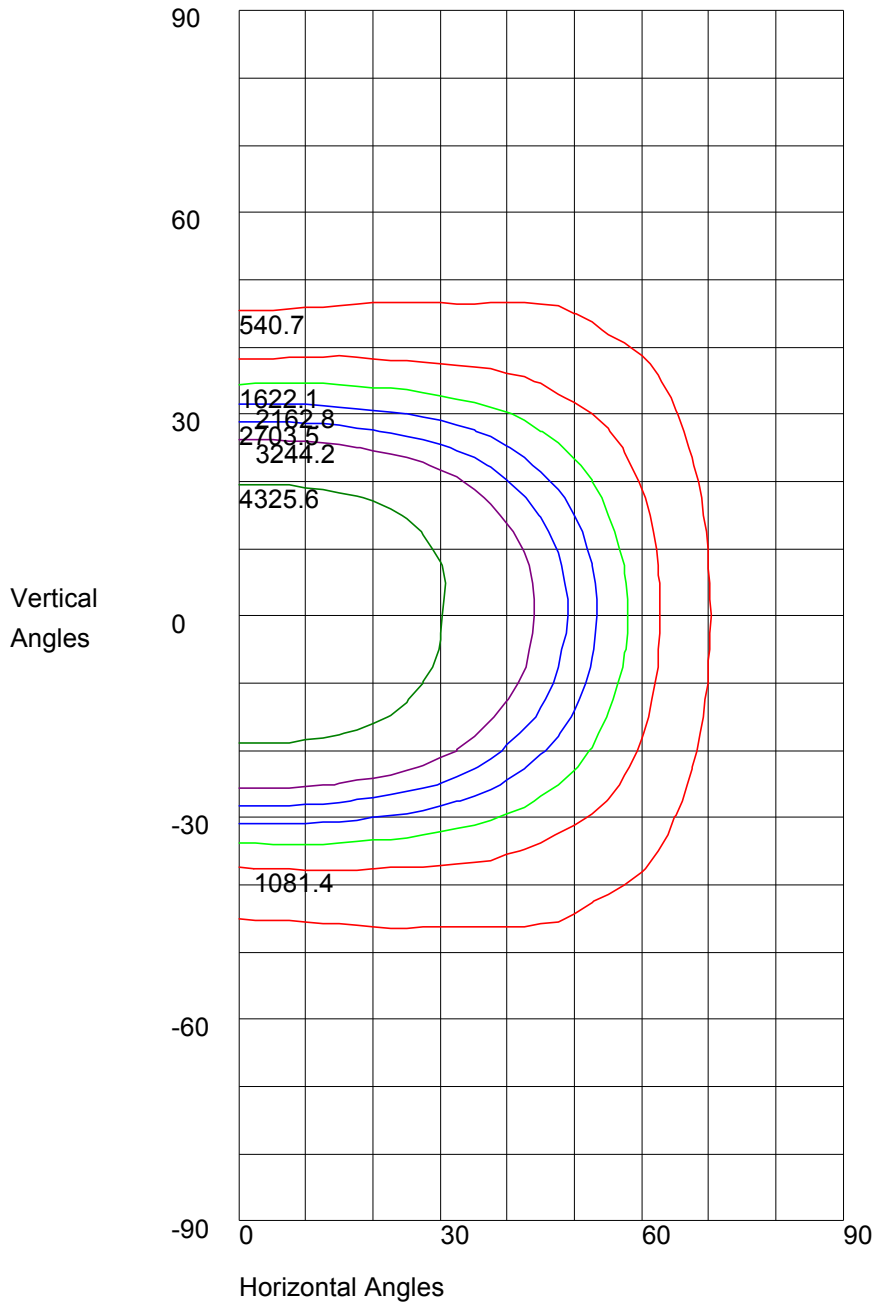
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	36	85	10
75	280	75	86
65	830	65	176
55	1958	55	272
47.5	2893	47.5	438
42.5	3398	42.5	685
37.5	3821	37.5	1149
33	4149	33	1855
29	4402	29	2675
25.5	4595	25.5	3401
22.5	4743	22.5	3914
19.5	4868	19.5	4326
17	4958	17	4656
15	5021	15	4892
13	5077	13	5108
11	5125	11	5265
9	5166	9	5355
7	5202	7	5383
5	5228	5	5350
3	5247	3	5303
1	5257	1	5258
0	5273	0	5273
-1	5257	-1	5250
-3	5247	-3	5256
-5	5228	-5	5258
-7	5202	-7	5260
-9	5166	-9	5213
-11	5125	-11	5113
-13	5077	-13	4963
-15	5021	-15	4775
-17	4958	-17	4557
-19.5	4868	-19.5	4254
-22.5	4743	-22.5	3827
-25.5	4595	-25.5	3282
-29	4402	-29	2528
-33	4149	-33	1726
-37.5	3821	-37.5	1072
-42.5	3398	-42.5	653
-47.5	2893	-47.5	431
-55	1958	-55	273
-65	830	-65	175
-75	280	-75	83
-85	36	-85	9
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 5407 Located At Horizontal Angle = -3, Vertical Angle = 7
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 5407 Located At Horizontal Angle = -3, Vertical Angle = 7
50% Maximum Candela = 2703.5
10% Maximum Candela = 540.7