



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

Report No: L072310303



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

Model Number: 1052-X-VF-30-A-MV-ND

Test: Photometric/Colorimetric/Electrical Test

Issue Date: 8/1/2023
Reference: N/A
Amendment: N/A

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: 7/31/23

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:	1052-X-VF-30-A-MV-ND
Driver Model Number:	ERP PSB30W-1050-27.5

Test Summary

Total Lumens:	3044.00
Efficacy:	109.98
Color Redering Index:	82.3
Correlated Color Temperature:	3059
Input Voltage (VAC/60Hz):	27.68
Input Current (Amp):	0.2356
Input Power (W):	27.68
Input Power Factor:	0.9790
Current ATHD (%):	13.4%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:20

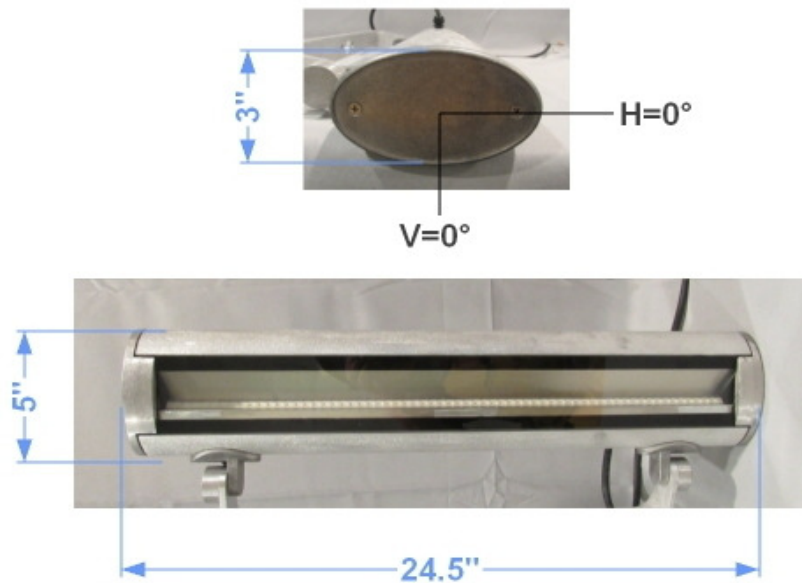
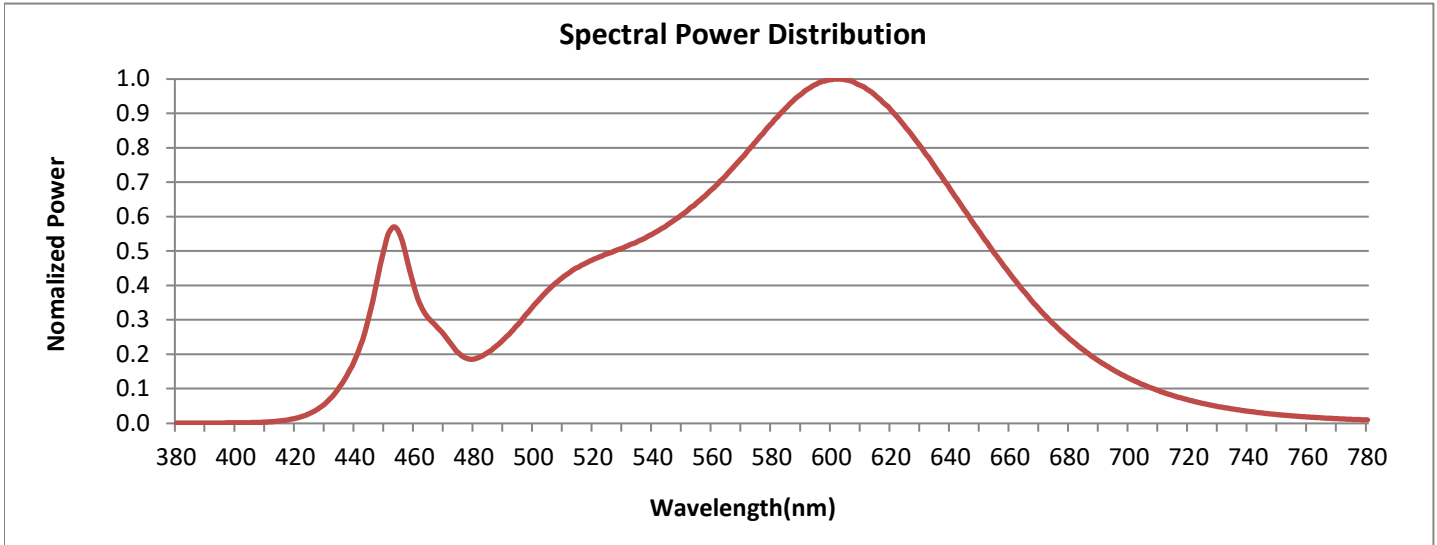


FIG. 1 LUMINAIRE

Colorimetry Test Results

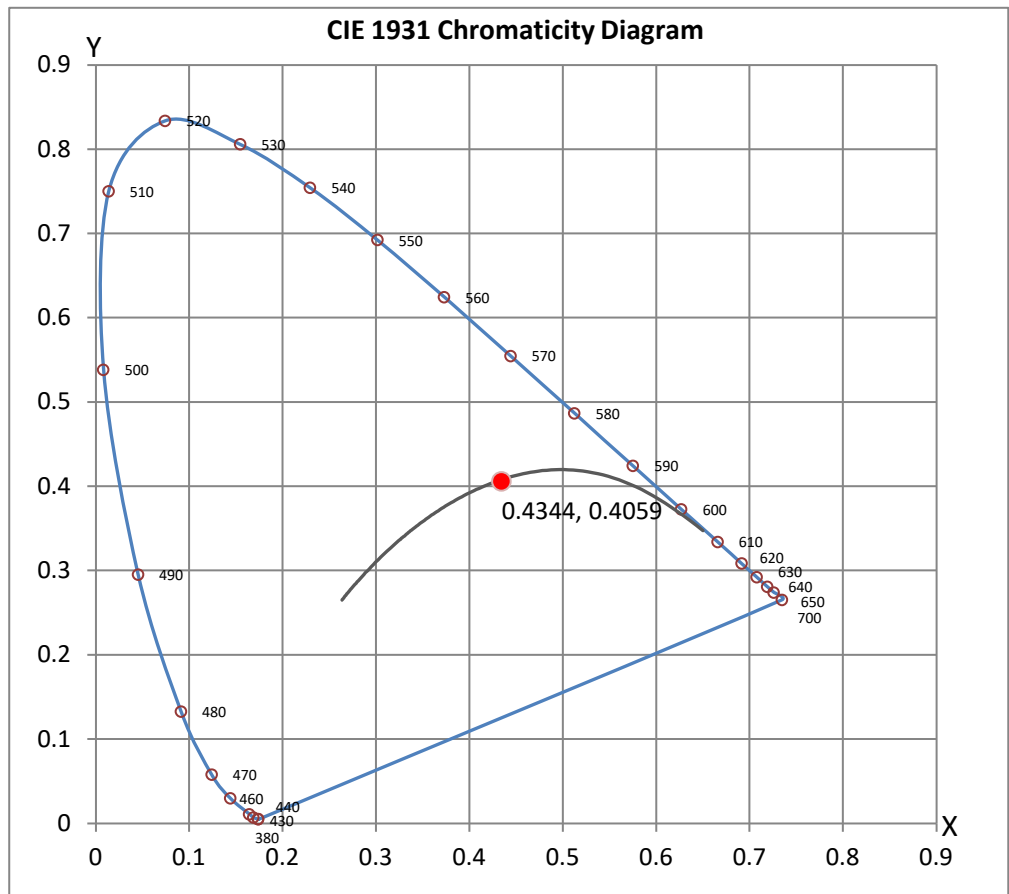


CRI & CCT

x	0.4344
y	0.4059
u'	0.2482
v'	0.5217
CRI	82.30
CCT	3059
Duv	0.00108

R Values

R1	80.41
R2	90.86
R3	96.12
R4	80.61
R5	81.21
R6	89.74
R7	82.08
R8	57.23
R9	3.09
R10	79.80
R11	80.43
R12	70.08
R13	82.90
R14	98.44
R15	72.17



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.*



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Photometric Test Report

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L072310303.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072310303
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 8/1/2023
 [MANUFAC] USTE dba Vista Professional Outdoor Lighting
 [LUMCAT] 1052-X-VF-30-A-MV-ND
 [LUMINAIRE] LED LINEAR FLOODLIGHT-VERTICAL 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-79-19

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

CHARACTERISTICS

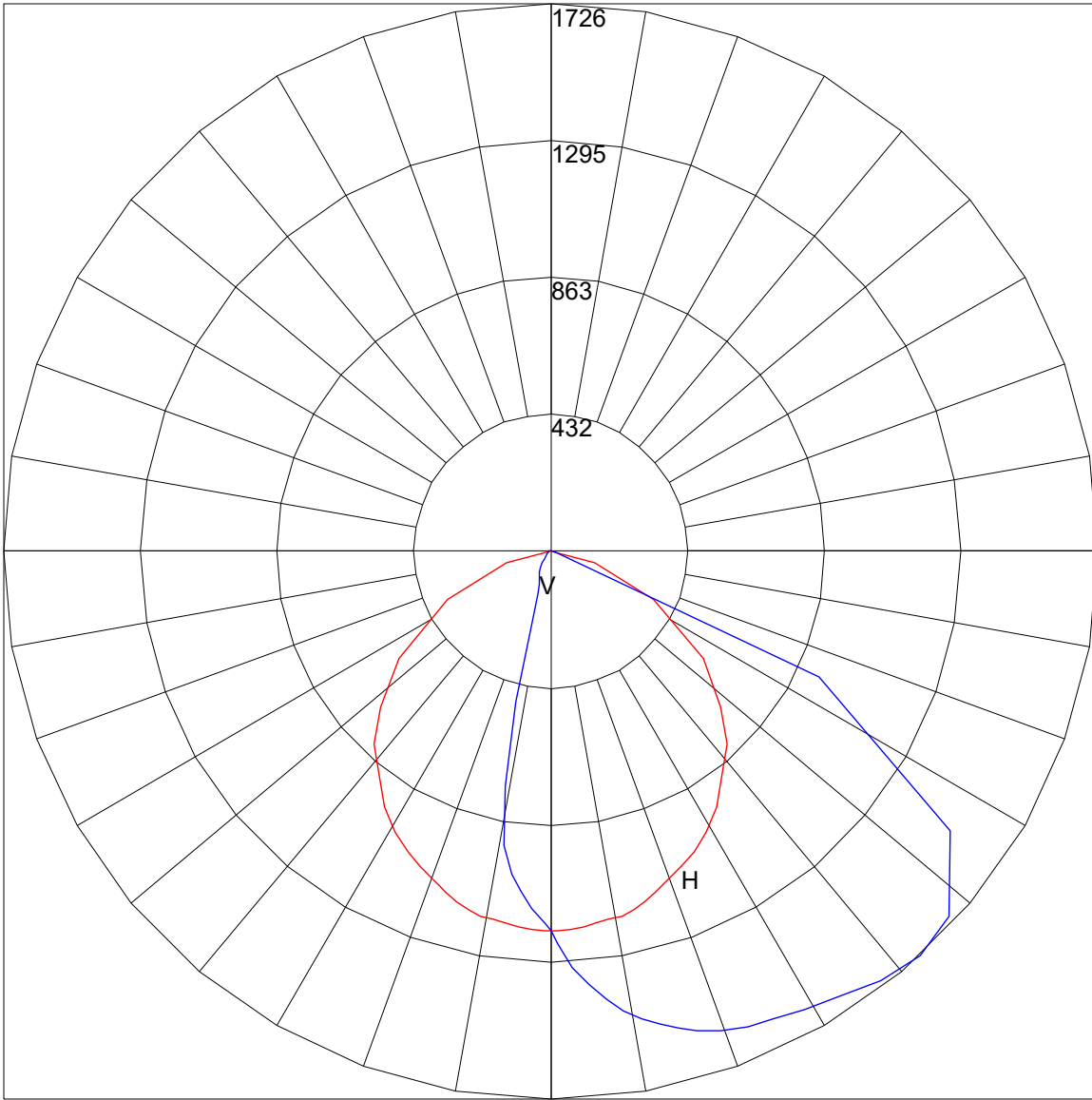
NEMA Type	7 H x 5 V
Maximum Candela	1726
Maximum Candela Angle	0H 42.5V
Horizontal Beam Angle (50%)	102.3
Vertical Beam Angle (50%)	75.6
Horizontal Field Angle (10%)	147.4
Vertical Field Angle (10%)	89.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	2404
Beam Efficiency	N.A.
Field Lumens	2944
Field Efficiency	N.A.
Spill Lumens	100
Luminaire Lumens	3044
Total Efficiency	N.A.
Total Luminaire Watts	27.68
Ballast Factor	1.00

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AXIAL CANDELA

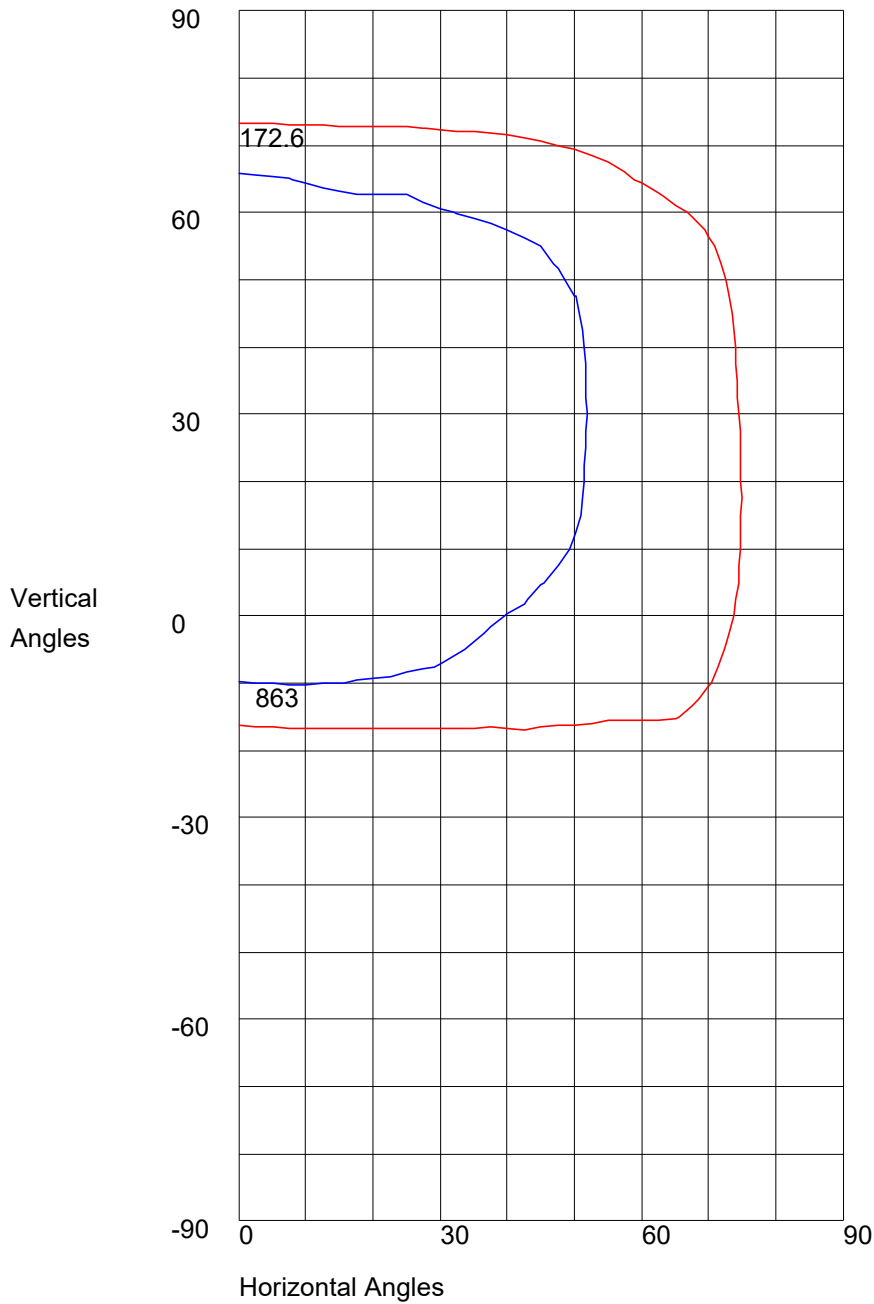
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	11	85	3
75	145	75	14
65	360	65	934
55	587	55	1538
47.5	727	47.5	1702
42.5	826	42.5	1726
37.5	890	37.5	1707
33	962	33	1671
29	1012	29	1652
25.5	1050	25.5	1632
22.5	1076	22.5	1622
19.5	1101	19.5	1603
17	1124	17	1581
15	1143	15	1554
13	1161	13	1528
11	1170	11	1499
9	1175	9	1465
7	1180	7	1422
5	1189	5	1372
3	1194	3	1314
1	1195	1	1237
0	1195	0	1195
-1	1195	-1	1172
-3	1194	-3	1125
-5	1189	-5	1075
-7	1180	-7	1025
-9	1175	-9	939
-11	1170	-11	756
-13	1161	-13	488
-15	1143	-15	222
-17	1124	-17	136
-19.5	1101	-19.5	107
-22.5	1076	-22.5	97
-25.5	1050	-25.5	88
-29	1012	-29	75
-33	962	-33	60
-37.5	890	-37.5	44
-42.5	826	-42.5	30
-47.5	727	-47.5	21
-55	587	-55	12
-65	360	-65	7
-75	145	-75	7
-85	11	-85	7
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 1726 Located At Horizontal Angle = 0, Vertical Angle = 42.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 1726 Located At Horizontal Angle = 0, Vertical Angle = 42.5
50% Maximum Candela = 863
10% Maximum Candela = 172.6