



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

Photometric Test Report

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L1123105112.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L1123105112
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 3/8/2024
[MANUFAC] USTE dba Vista Professional Outdoor Lighting
[LUMCAT] 1050-MF-B
[LUMINAIRE] 1050 (0.5ft), Medium Flood, High Power, White output
[BALLASTCAT] Forzlux PS14-350C-DUALDIM-UNV-PP, QTY:1
[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

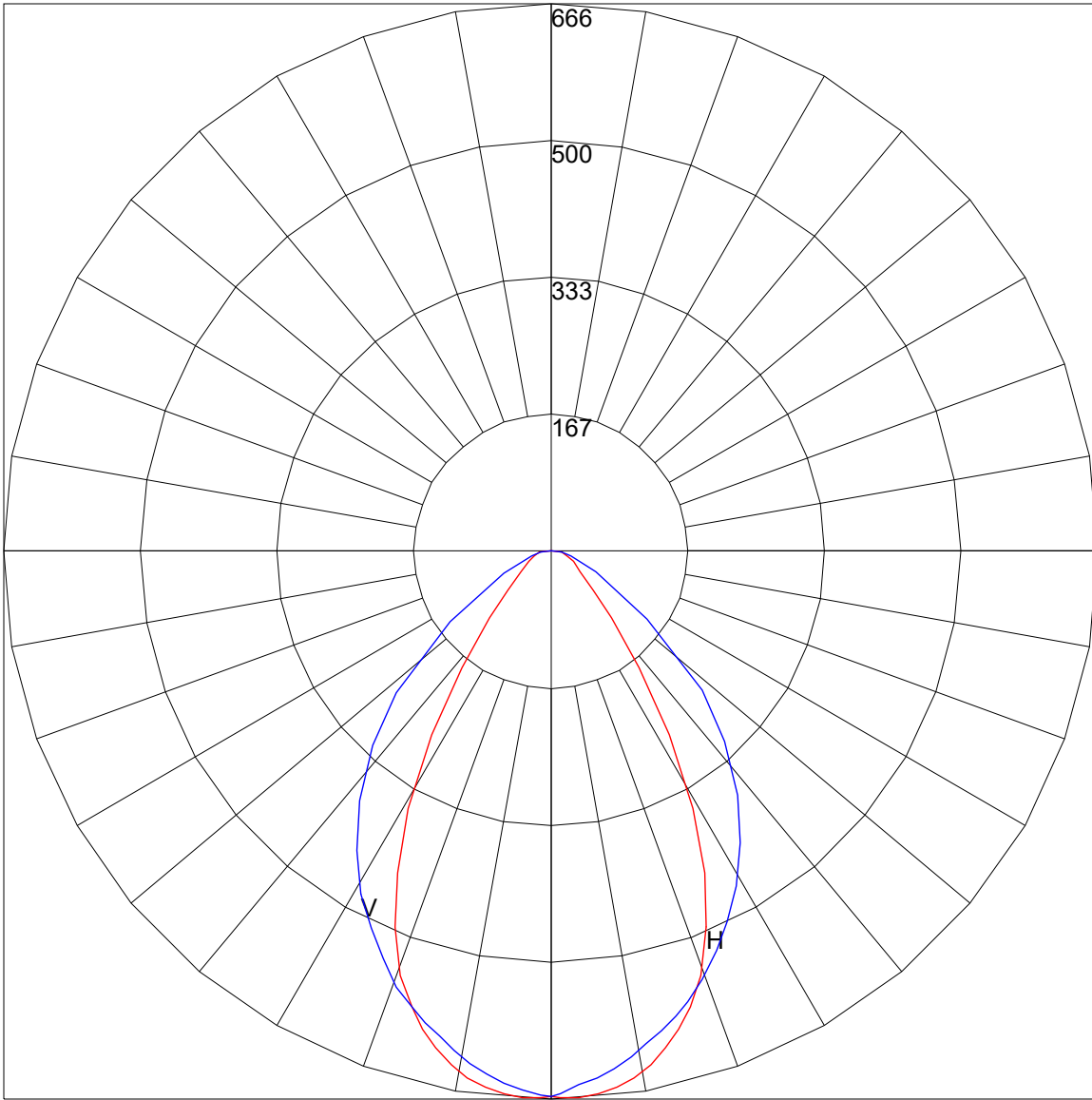
NEMA Type	5 H x 6 V
Maximum Candela	666
Maximum Candela Angle	-3H 0V
Horizontal Beam Angle (50%)	60.1
Vertical Beam Angle (50%)	82.2
Horizontal Field Angle (10%)	97.4
Vertical Field Angle (10%)	128.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	569
Beam Efficiency	N.A.
Field Lumens	841
Field Efficiency	N.A.
Spill Lumens	96
Luminaire Lumens	937
Total Efficiency	N.A.
Total Luminaire Watts	9.89
Ballast Factor	1.00

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AXIAL CANDELA

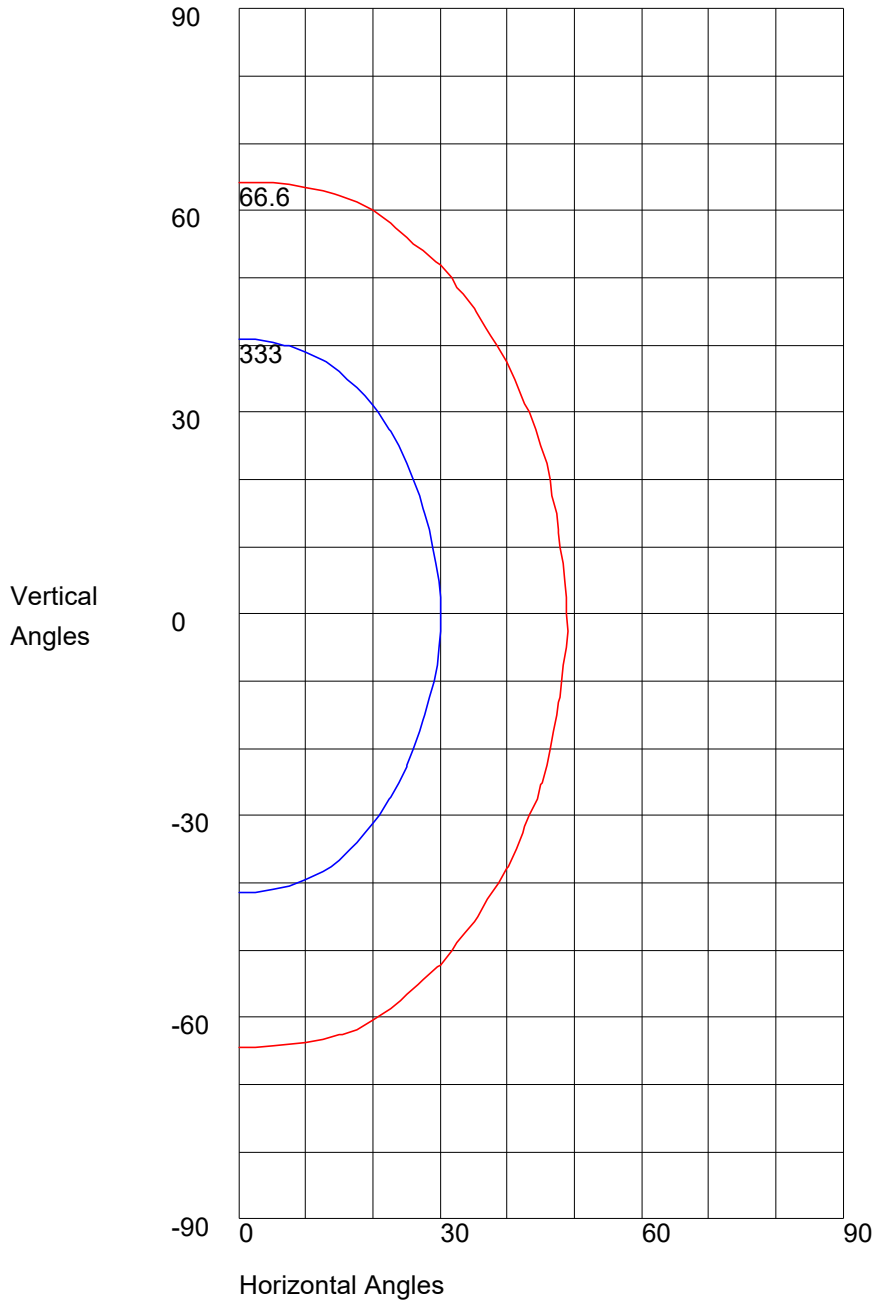
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	14	85	13
75	21	75	25
65	30	65	60
55	44	55	143
47.5	71	47.5	249
42.5	110	42.5	314
37.5	178	37.5	374
33	266	33	423
29	357	29	465
25.5	434	25.5	499
22.5	495	22.5	526
19.5	547	19.5	552
17	580	17	572
15	602	15	586
13	620	13	599
11	636	11	610
9	648	9	622
7	656	7	634
5	662	5	643
3	666	3	650
1	665	1	659
0	663	0	663
-1	665	-1	661
-3	666	-3	655
-5	662	-5	649
-7	656	-7	641
-9	648	-9	630
-11	636	-11	618
-13	620	-13	605
-15	602	-15	593
-17	580	-17	580
-19.5	547	-19.5	562
-22.5	495	-22.5	535
-25.5	434	-25.5	508
-29	357	-29	476
-33	266	-33	433
-37.5	178	-37.5	382
-42.5	110	-42.5	321
-47.5	71	-47.5	255
-55	44	-55	149
-65	30	-65	63
-75	21	-75	25
-85	14	-85	12
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 666 Located At Horizontal Angle =-3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 666 Located At Horizontal Angle = -3, Vertical Angle = 0
50% Maximum Candela = 333
10% Maximum Candela = 66.6



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Report No: L1123105112



Report No: L1123105112
Report Prepared For: USTE dba Vista Professional Outdoor Lighting
1625 Surveyor Ave., Simi Valley CA 93063
Model Number: 1050-MF- B
Test: Photometric/Colorimetric/Electrical Test

Issue Date: 3/8/2024
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: 3/7/24

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:	1050-MF- B
Driver Model Number:	Forlux PS14-350C-DUALDIM-UNV-PP, QTY:1

Test Summary

Total Lumens:	937.00
Efficacy:	94.73
Color Redering Index:	82.6
Correlated Color Temperature:	3112
Input Voltage (VAC/60Hz):	120.01
Input Current (Amp):	0.0837
Input Power (W):	9.89
Input Power Factor:	0.9853
Current ATHD (%):	12.4%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:10

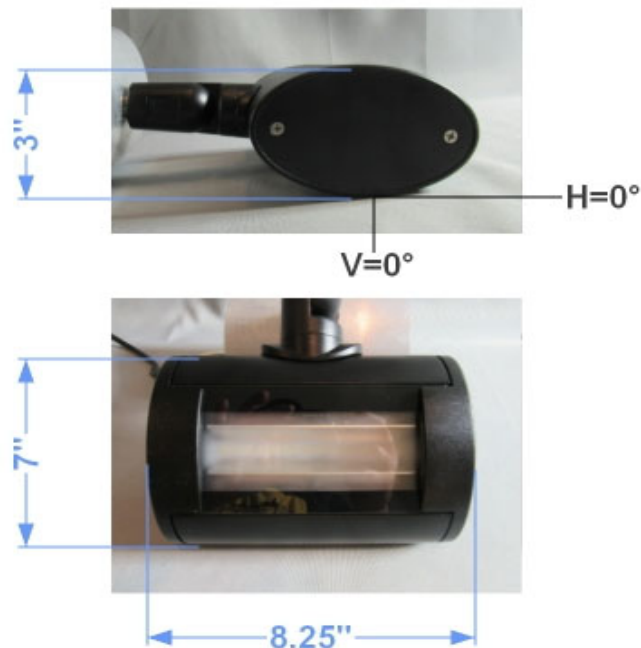
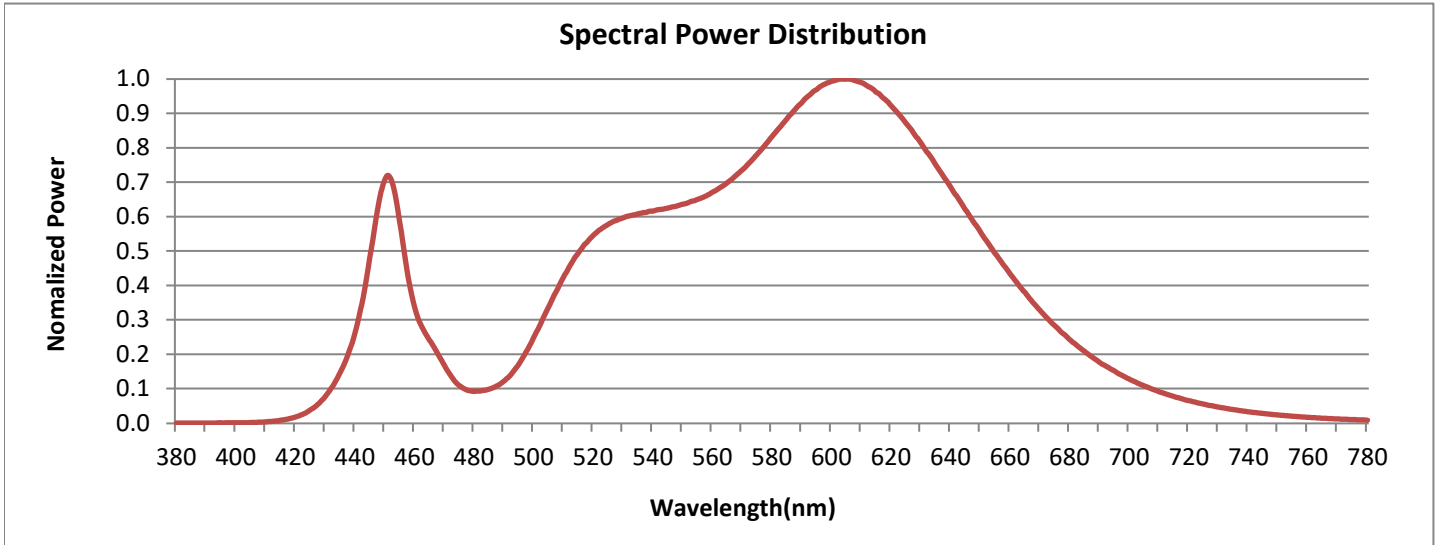


FIG. 1 LUMINAIRE

Colorimetry Test Results

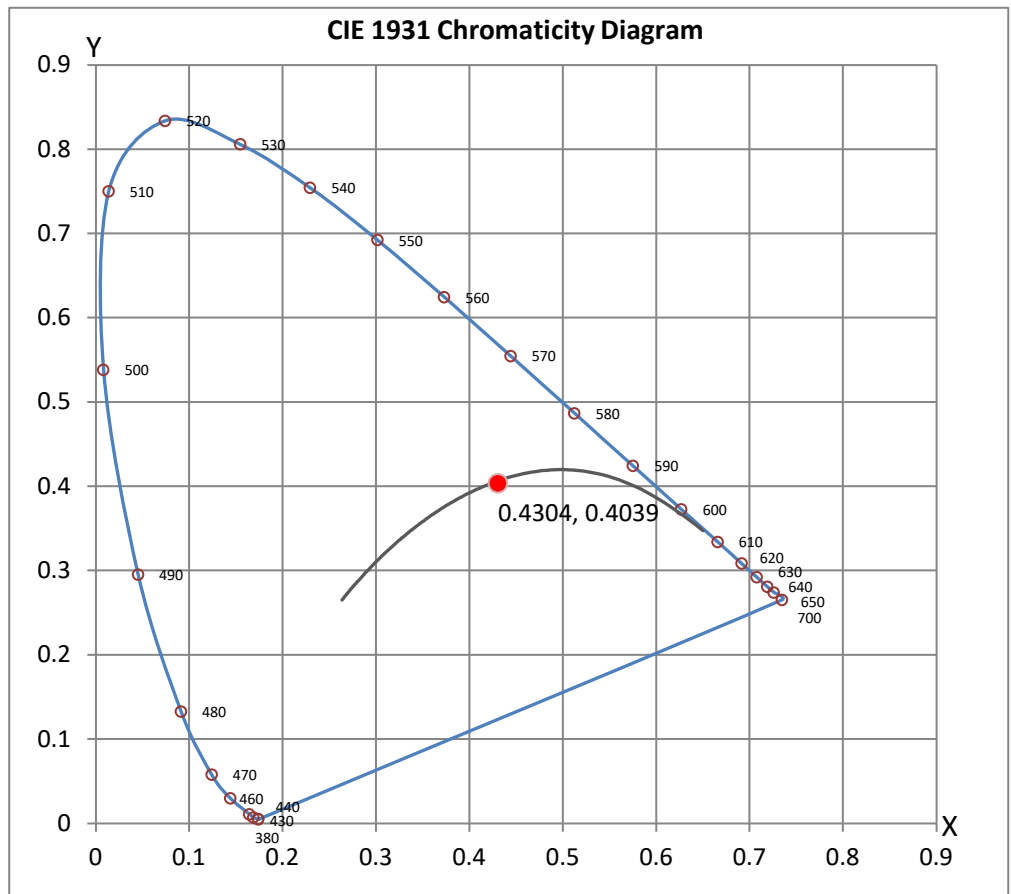


CRI & CCT

x	0.4304
y	0.4039
u'	0.2464
v'	0.5203
CRI	82.60
CCT	3112
Duv	0.00088

R Values

R1	82.14
R2	87.90
R3	93.06
R4	84.07
R5	81.45
R6	84.94
R7	85.24
R8	62.16
R9	8.71
R10	71.35
R11	84.44
R12	60.72
R13	83.37
R14	95.41
R15	74.42



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.

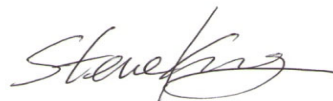
Electrical measurements are measured using the listed equipment.

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.*