



Report No: L072112809R01 Issue Date: 9/13/2021

Report Prepared For: USTE dba Vista Professioinal Outdoor Lighting

1625 Surveyor Ave., Simi Valley CA 93063

Model Number: 1141-X-WF-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: 7/29/21

Date of Tests: 8/18/21 - 8/19/21

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





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Genera	Inform	nation
Genera		Iauvii

Manufacturer: USTE dba Vista Professioinal Outdoor Lighting

Model Number:1141-X-WF-30-B-MV-NDDriver Model Number:ERP ESS020W-1400-14

Test Summary

Total Lumens:	1603.70
Efficacy:	84.14
Color Redering Index:	81.5
Correlated Color Temperature:	3128
Input Voltage (VAC/60Hz):	119.99
Input Current (Amp):	0.1624
Input Power (W):	19.06
Input Power Factor:	0.9780
Current ATHD (%):	10.3%

Test Condition

Ambient Temperature (°C): 25.0
Stabilization Time (Hours): 0:30
Total Operating Time (Hours): 1:00

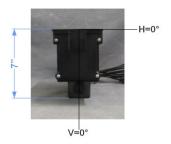
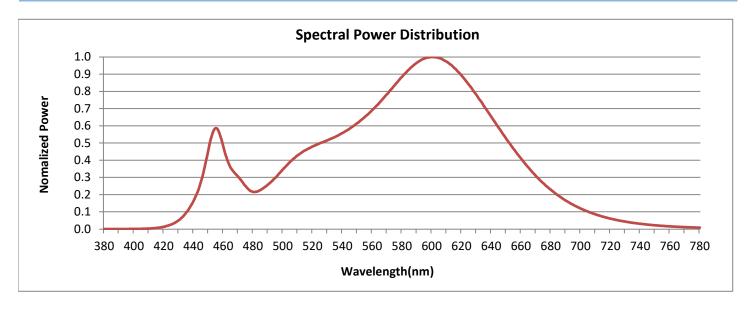




FIG. 1 LUMINAIRE



Colorimetry Test Results

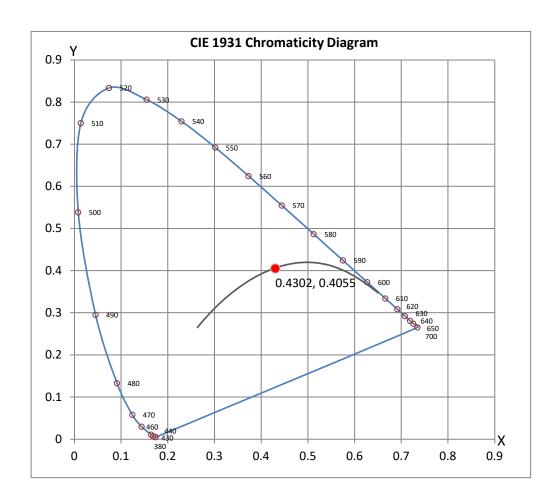


CRI & CCT

х	0.4302	
у	0.4055	
u'	0.2456	
v'	0.5209	
CRI	81.50	
ССТ	3128	
Duv	0.00156	

R Values

R Values	
R1	79.67
R2	91.03
R3	95.29
R4	79.05
R5	80.37
R6	89.80
R7	81.22
R8	55.63
R9	-0.85
R10	80.02
R11	78.49
R12	68.47
R13	82.47
R14	97.96
R15	71.16





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TESTING

NVLAP LAB CODE 200927-0

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:

Steveling

Steve Kang

Quality Assurance

^{*}Attached are photometric data reports.



www.lightlaboratory.com

Photometric Test Report

IES FLOOD REPORT

PHOTOMETRIC FILENAME: L072112809R01.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L072112809

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 8/25/21

[MANUFAC] USTE dba Vista Professioinal Outdoor Lighting

[LUMCAT] 1141-X-WF-30-B-MV-ND

[LUMINAIRE] LED LUMINAIRE

[BALLASTCAT] ERP ESS020W-1400-14

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[INPUT] 119.99VAC

[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 719.26 Maximum Candela Angle 0H -19.5V Horizontal Beam Angle (50%) 80.9 Vertical Beam Angle (50%) 91.7 Horizontal Field Angle (10%) 150.6 Vertical Field Angle (10%) 150.2

Lumens Per Lamp N.A. (absolute) **Total Lamp Lumens** N.A. (absolute)

Beam Lumens 1034 Beam Efficiency N.A. Field Lumens 1556 Field Efficiency N.A. Spill Lumens 48 **Luminaire Lumens** 1605 **Total Efficiency** N.A. **Total Luminaire Watts** 19.06 **Ballast Factor** 1.00

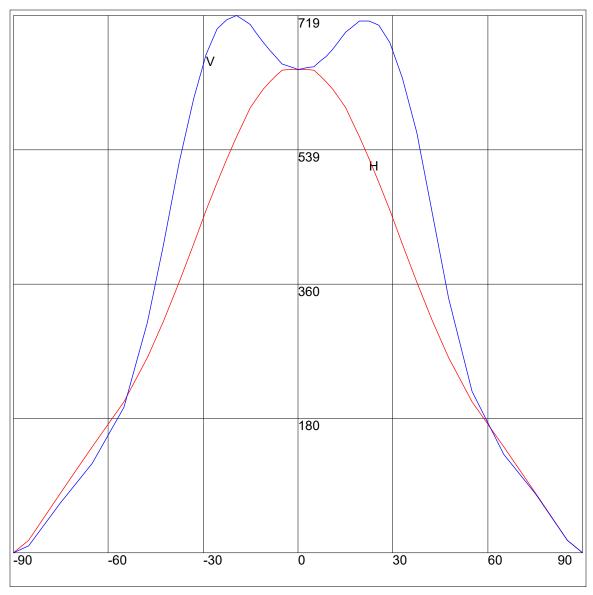
IES FLOOD REPORT

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90 85 75 65 55 47.5 33 29 25.5 17 15 13 10 1 3 5 7 9 13 15 7 19 19 19 19 19 19 19 19 19 19 19 19 19	.034 17.189 80.148 142.084 202.451 261.59 309.611 362.747 413.456 458.516 496.475 527.579 557.517 578.799 595.825 608.239 620.654 630.654 638.239 645.824 646.626 645.824 638.239 645.824 646.93 645.824 638.239 630.654 645.824 638.239 595.825 578.799 557.517 527.579 496.475 458.516 413.456 362.747 309.611 261.59 202.451 142.084 80.148 17.189 .034	90 85 75 65 55 47.5 33 29 25.5 17 15 13 11 9 7 5 3 1 0 -1 3 -5 -7 -9 -11 3 -15 -7 -9 -13 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15	.034 17.053 78.716 131.511 215.957 341.193 452.65 562.333 635.947 682.794 706.668 711.512 711.389 703.613 697.391 685.823 674.254 665.005 658.074 651.144 649.818 647.994 647 648.649 651.782 654.418 663.695 672.972 683.558 695.454 707.35 712.644 719.26 713.557 701.689 667.788 607.844 522.907 411.723 308.588 195.221 119.643 67.12 9.686 .019

AXIAL CANDELA DISPLAY



Maximum Candela = 719.26 Located At Horizontal Angle = 0, Vertical Angle =-19.5

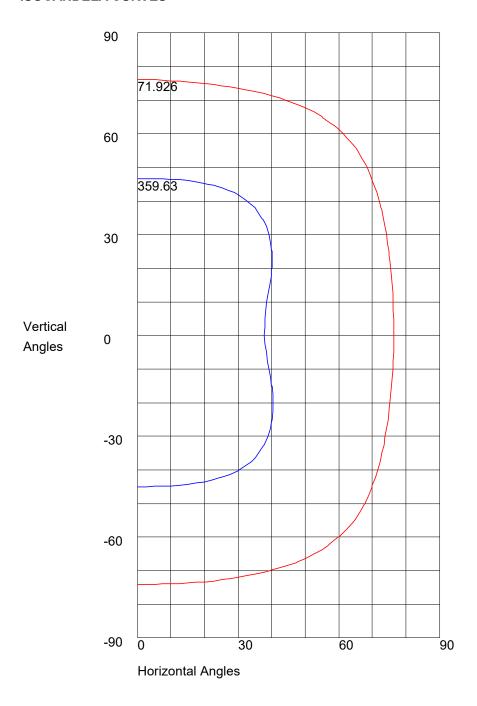
H - Horizontal Axial Candela

V - Vertical Axial Candela

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ISOCANDELA CURVES



Maximum Candela = 719.26 Located At Horizontal Angle = 0, Vertical Angle =-19.5 50% Maximum Candela = 359.63 10% Maximum Candela = 71.926