

Report No: L1123105130

ESTING

NVLAP LAB CODE 200927-0

Report No: L1123105130 Issue Date: 12/14/2023

Reference:N/A

Report Prepared For: USTE dba Vista Professioinal Outdoor Lighting

Amendment:N/A

1625 Surveyor Ave., Simi Valley CA 93063

Model Number: 1504-AB-AMB

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.

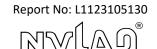
Date of Tests: 12/11/23

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





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Genera	ш	U		au	OH

Manufacturer: USTE dba Vista Professioinal Outdoor Lighting

Model Number: 1504-AB-AMB

Driver Model Number: ERP # ESS010W-0500-18, QTY:1

Test Summary

Total Lumens:	207.00
Efficacy:	25.99
Color Redering Index:	-15.3
Correlated Color Temperature:	1390
Input Voltage (VAC/60Hz):	119.98
Input Current (Amp):	0.0674
Input Power (W):	7.96
Input Power Factor:	0.9847
Current ATHD (%):	12.1%

Test Condition

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

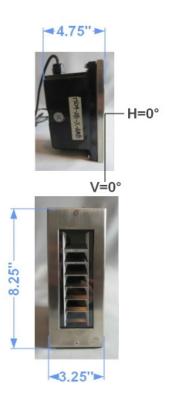
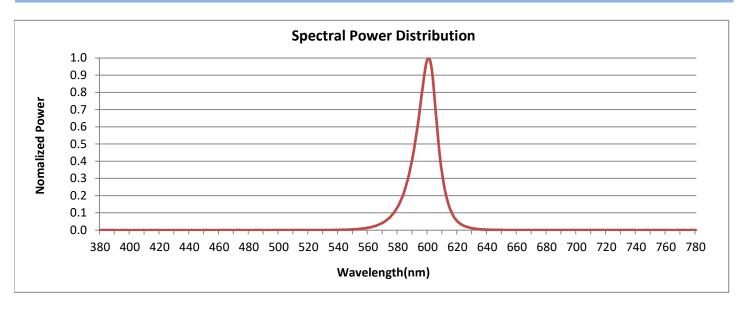


FIG. 1 LUMINAIRE





Colorimetry Test Results

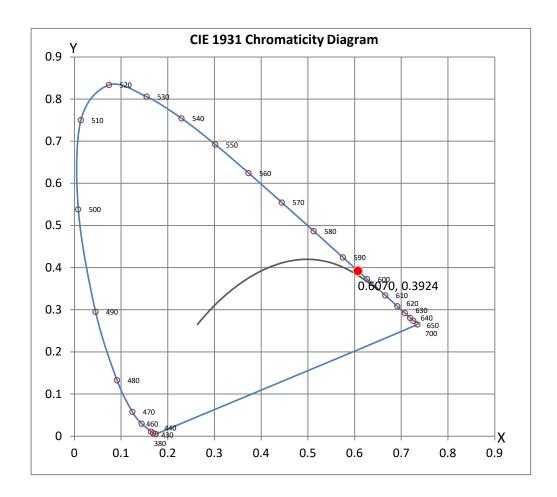


CRI & CCT

х	0.6070	
у	0.3924	
u'	0.3738	
v'	0.5438	
CRI	-15.30	
ССТ	1390	
Duv	0.01288	

R Values

r values	
R1	-26.07
R2	57.17
R3	18.00
R4	-58.92
R5	-31.06
R6	56.85
R7	-9.15
R8	-129.60
R9	-354.87
R10	38.37
R11	-79.82
R12	14.50
R13	-7.35
R14	47.88
R15	-59.97







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:		
-	•	ived and tested. This report must not be used by the customer to claim by NVLAP, NIST or any agency of the Federal Government.
Report Prepared by :	JG	_

Test Report Reviewed by:

Steveling

Steve Kang Quality Assurance

^{*}Attached are photometric data reports.



Photometric Test Report

IES ROAD REPORT

PHOTOMETRIC FILENAME: L1123105130.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L1123105130

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

ISSUEDATE1 12/12/2023

[MANUFAC] USTE dba Vista Professioinal Outdoor Lighting

[LUMCAT] 1504-AB-AMB

[LUMINAIRE] 1504 (Steplight-Vertical) Amber output

[BALLASTCAT] ERP # ESS010W-0500-18, QTY:1

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

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

[INPUT] 120 VAC

[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

IES ClassificationType IVLongitudinal ClassificationVery ShortLumens Per LampN.A. (absolute)Total Lamp LumensN.A. (absolute)

Luminaire Lumens 207

Downward Total Efficiency N.A. (absolute)
Total Luminaire Efficiency N.A. (absolute)

Luminaire Efficacy Rating (LER)

Total Luminaire Watts

7.96

Ballast Factor

1.00

Upward Waste Light Ratio

Maximum Candela

Maximum Candela Angle

Maximum Candela (<90 Degrees Vertical)

Maximum Candela (<90 Degrees Vertical)

Maximum Candela Angle (<90 Degrees Vertical) 15H 45V

Maximum Candela At 90 Degrees Vertical 10 (4.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical 97 (46.9% Luminaire Lumens)

Cutoff Classification (deprecated) N.A. (absolute)

IES ROAD REPORT

PHOTOMETRIC FILENAME: L1123105130.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

FL - Front-Low (0-30) FM - Front-Medium (30-60) FH - Front-High (60-80) FVH - Front-Very High (80-90) BL - Back-Low (0-30) BM - Back-Medium (30-60) BH - Back-High (60-80) BVH - Back-Very High (80-90) UL - Uplight-Low (90-100) UH - Uplight-High (100-180)	Lumens 2.2 101.1 72.0 16.9 0.2 0.5 0.5 0.3 3.8 9.7	% Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	% Luminaire 1.1 48.8 34.7 8.2 0.1 0.3 0.3 0.1 1.8 4.7
Total BUG Rating	207.2 B0-U1-G1	N.A.	100.0

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COEFFICIENTS OF UTILIZATION

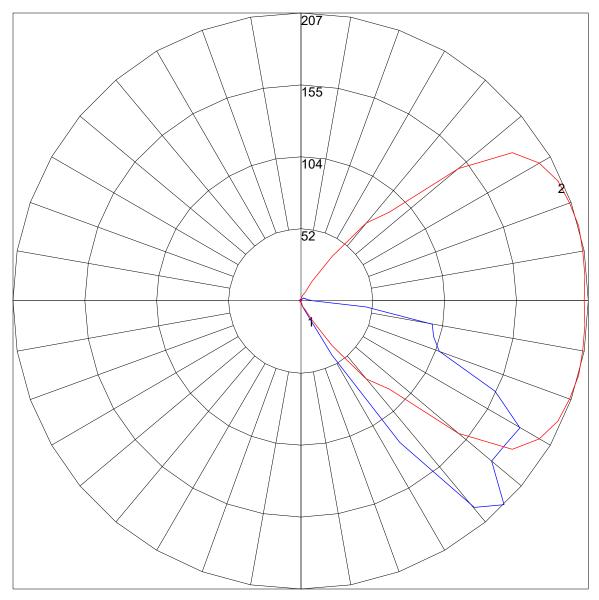


Street Width / Mounting Height

FLUX DISTRIBUTION

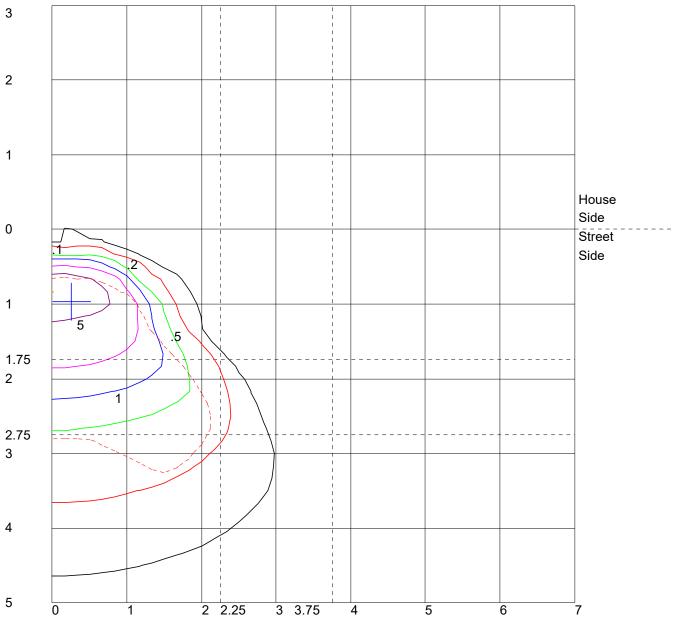
	Lumens	Percent Of Luminaire
Downward Street Side	192.2	92.7
Downward House Side	1.5	0.7
Downward Total	193.7	93.4
Upward Street Side	10.5	5.0
Upward House Side	3.1	1.5
Upward Total	13.6	6.6
Total Flux	207.3	100.0

POLAR GRAPH



Maximum Candela = 207 Located At Horizontal Angle = 15, Vertical Angle = 45 # 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 3 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point