



Report No:	L1123105128	Issue Date: 12/14/2023 Reference:N/A
Report Prepared For:	USTE dba Vista Professioinal Outdoor Lighting 1625 Surveyor Ave., Simi Valley CA 93063	Amendment:N/A
Model Number:	1502-AB-AMB	
Test:	Photometric/Colorimetric/Electrical Test	
	ate part or all test guidelines were used for test performed:	
	ds for Electrical and Photometric Measurements of Solid-State Lighting Products	
	Specification of the Chromaticity of Solid State Lighting Products	
ANSI C82.77-10:2014: Harmonic En	nission Limits-Related Quality Requirements for Lighting Equipment	
Description of Sample:	Client submitted the sample. Received in working and undamage modifications were necessary.	d condition. No

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





TESTING NVLAP LAB CODE 200927-0

General Information	
Manufacturer:	USTE dba Vista Professioinal Outdoor Lighting
Model Number:	1502-AB-AMB
Driver Model Number:	ERP # ESS010W-0500-12, QTY:1
Test Summary	
Total Lumens:	108.00
Efficacy:	24.16
Color Redering Index:	-17.3
Correlated Color Temperature:	1417
Input Voltage (VAC/60Hz):	120.04
Input Current (Amp):	0.0380
Input Power (W):	4.47
Input Power Factor:	0.9788
Current ATHD (%):	15.2%

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

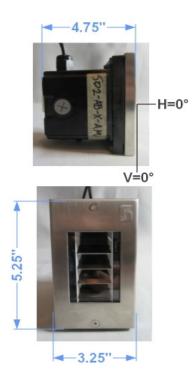
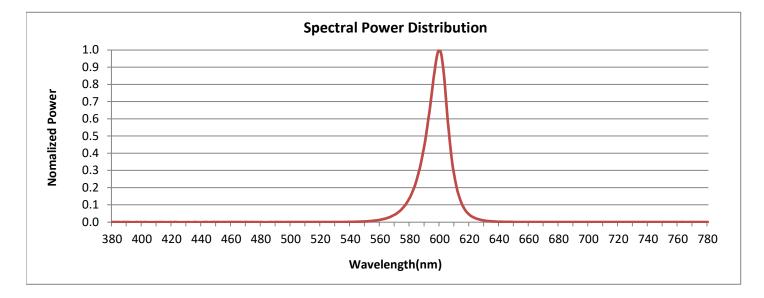


FIG. 1 LUMINAIRE



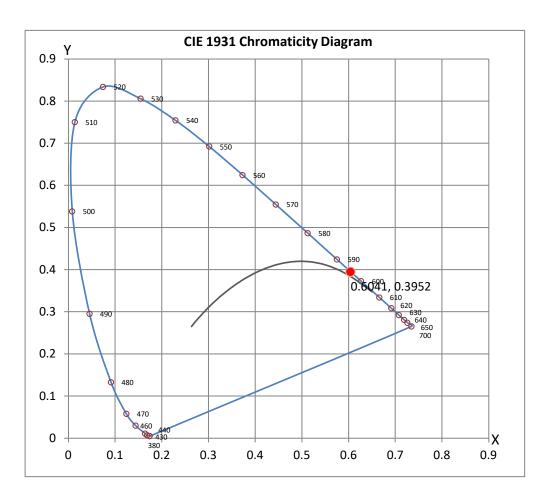


Colorimetry Test Results



CRI & CCT

x 0.6041			
У	0.3952		
u'	0.3698		
V'	0.5443		
CRI	-17.30		
ССТ	1417		
Duv	0.01162		
R Values	R Values		
R1	-28.78		
R2	55.97		
R3	17.08		
R4	-61.68		
R5	-33.55		
R6	54.50		
R7	-9.94		
R8	-132.30		
R9	-363.73		
R10	36.67		
R11	-83.82		
R12	11.10		
R13	-9.83		
R14	46.95		
R15	-62.34		







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:

Stevefing

Steve Kang Quality Assurance

*Attached are photometric data reports.



Photometric Test Report

IES ROAD REPORT PHOTOMETRIC FILENAME : L1123105128.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L1123105128 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 12/12/2023 [MANUFAC] USTE dba Vista Professioinal Outdoor Lighting [LUMCAT] 1502-AB-AMB [LUMINAIRE] 1502 (Steplight-Vertical) Amber output [BALLASTCAT] ERP # ESS010W-0500-12, 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

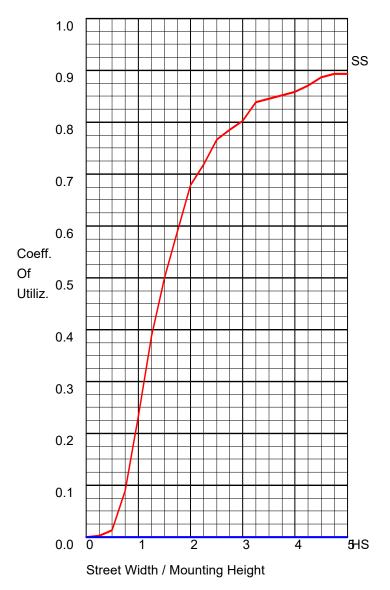
CHARACTERISTICS

Longitudinal Classification Lumens Per Lamp Total Lamp Lumens Luminaire Lumens Downward Total Efficiency Total Luminaire Efficiency Luminaire Efficacy Rating (LER) Total Luminaire Watts Ballast Factor Upward Waste Light Ratio Maximum Candela Maximum Candela Angle Maximum Candela Angle (<90 Degrees Vertical) Maximum Candela At 90 Degrees Vertical	Type IV Short N.A. (absolute) N.A. (absolute) 108 N.A. (absolute) N.A. (absolute) 24 4.48 1.00 0.07 119 40H 65V 119 40H 65V 6 (5.6% Luminaire Lumens) 40 (37.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	

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-Medium (30-60) BVH - Back-Very High (80-90) UL - Uplight-Low (90-100) UH - Uplight-High (100-180)	Lumens 0.8 53.6 41.6 4.1 0.0 0.0 0.0 0.0 0.0 1.8 6.3	% Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	% Luminaire 0.7 49.6 38.4 3.8 0.0 0.0 0.0 0.0 0.0 1.6 5.8
Total	108.2	N.A.	100.0
BUG Rating	B0-U1-G0		

COEFFICIENTS OF UTILIZATION

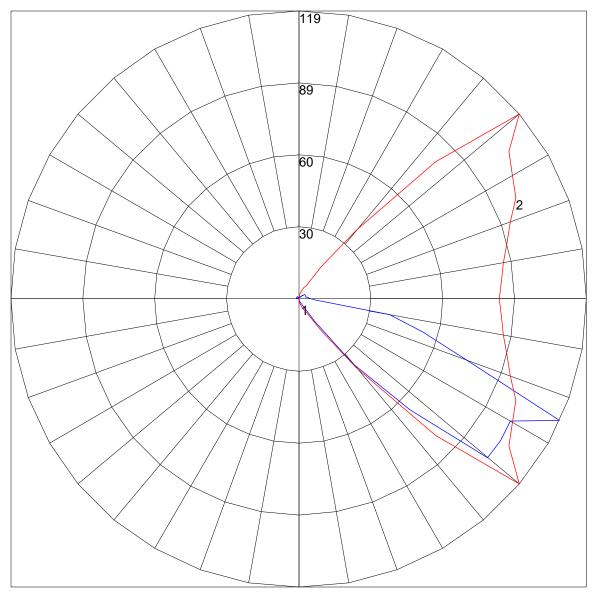


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	100.0	92.5
Downward House Side	0.0	0.0
Downward Total	100.0	92.5
Upward Street Side	6.2	5.7
Upward House Side	1.9	1.8
Upward Total	8.1	7.5
Total Flux	108.1	100.0

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc. Calculations based on published IES Methods and recommendations, values rounded for display purposes. Results derived from content of manufacturers photometric file.

POLAR GRAPH



Maximum Candela = 119 Located At Horizontal Angle = 40, Vertical Angle = 65 # 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

