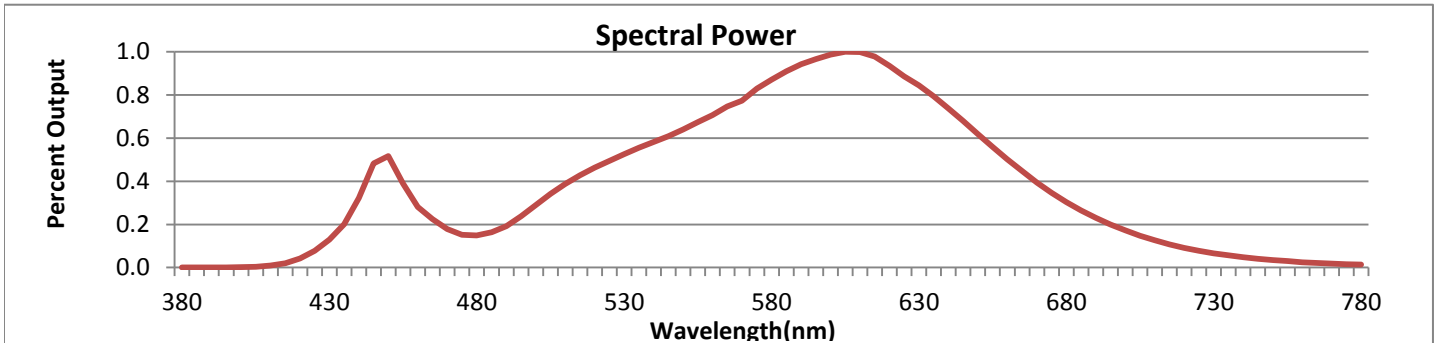


Test Summary

Manufacturer:	USTE, dba Vista Professional Outdoor I
Model Number:	310 -X-13-W-MF
Driver Model Number:	N/A
Total Lumens:	711.34
Input Voltage (VAC/60Hz):	12.00
Input Current (Amp):	1.06
Input Power (W):	9.70
Input Power Factor:	0.76
Current ATHD @ 120V(%):	69%
Current ATHD @ 277V(%):	N/A
Efficacy:	73
Color Rendering Index (CRI):	83
Correlated Color Temperature (K):	3037
Chromaticity Coordinate x:	0.4341
Chromaticity Coordinate y:	0.4025
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:45
Total Operating Time (Hours):	1:45
Off State Power(W):	0.00

FIG. 1 LUMINAIRE



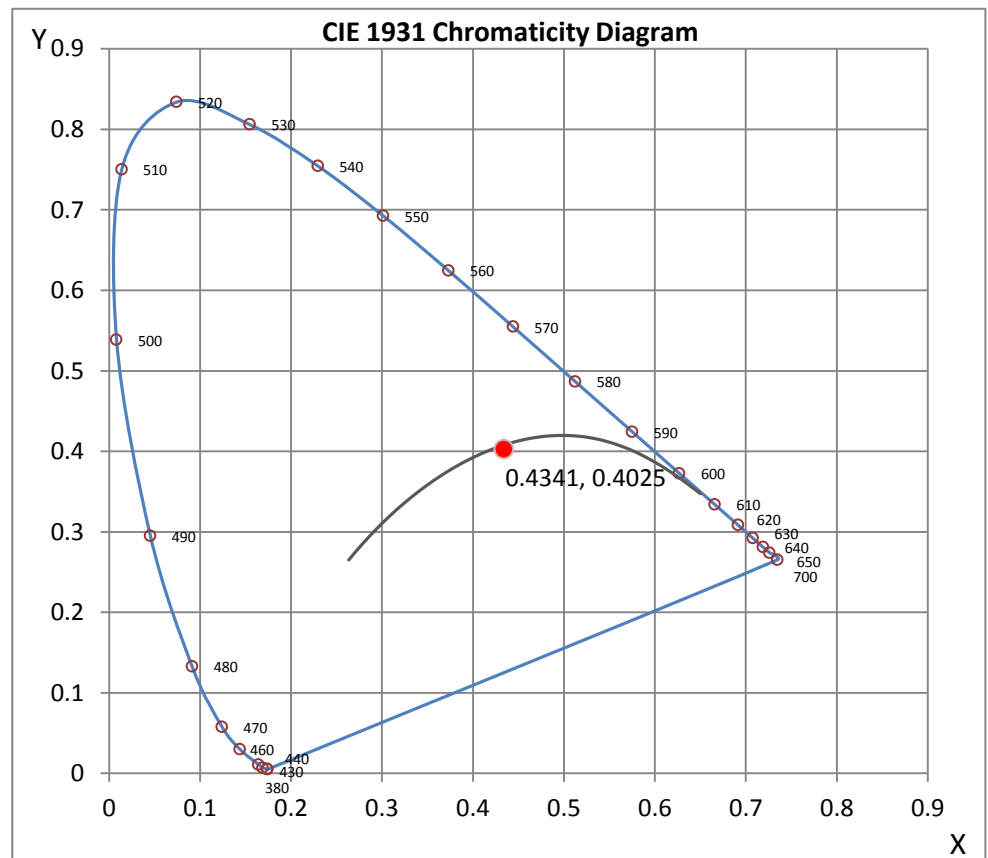
Wavelength	W/m ² nm	440	0.3228	510	0.3883	580	0.8715	650	0.6195	720	0.0907
380	0.0009	450	0.5168	520	0.4640	590	0.9431	660	0.5013	730	0.0664
390	0.0011	460	0.2809	530	0.5253	600	0.9874	670	0.3932	740	0.0479
400	0.0019	470	0.1793	540	0.5827	610	0.9995	680	0.3030	750	0.0348
410	0.0087	480	0.1492	550	0.6398	620	0.9352	690	0.2302	760	0.0249
420	0.0423	490	0.1925	560	0.7068	630	0.8448	700	0.1720	770	0.0183
430	0.1290	500	0.2896	570	0.7732	640	0.7379	710	0.1273	780	0.0134

CRI & CCT

x	0.4341
y	0.4025
u'	0.2494
v'	0.5203
CRI	83.10
CCT	3037
Duv	-0.00024

R Values

R1	81.91
R2	89.24
R3	95.27
R4	82.56
R5	81.30
R6	85.94
R7	85.27
R8	63.62
R9	15.11
R10	74.61
R11	81.61
R12	68.72
R13	83.36
R14	96.93



*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



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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:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

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Test Report Released by:

Test Report Reviewed by:

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Steve Kang
 Quality Assurance

**Attached are photometric data reports. Total number of pages: 8*

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

