

Report of Test

LLIA000901-008B

Integrating Sphere Report

Catalog Number: P52314/F11/D61/L413

Pendant mounted, formed white enamel steel frame with white
"lumenate" diffuser, translucent white top and bottom enclosures.

Three white LED modules with clear patterned hemispherical lenses below each.
One ERP ESP050W-1200-42 LED driver and one ERP ESS030W-0620-42 LED driver



Performance Summary

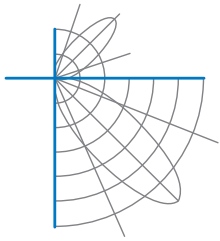
Voltage	120.0 Vac
Current	0.6072 A
Power	71.74 W
Frequency	59.97 Hz
Power Factor	0.984
Current THD	12.4 %

Total Luminous Flux	4399.0 lm
Efficacy	61.3 lm/W
Chromaticity (x,y)	(0.4385, 0.4011)
(u',v')	(0.2529, 0.5204)
Duv	-0.0014
CCT	2948 K
CRI (Ra)	93
R9	70
TM-30: Rf	91
TM-30: Rg	102

Prepared For:
Lumetta, Inc
33 Minnesota Avenue
Warwick, RI 02888, USA

Test date: 12/28/2017
Report date: 01/12/2018

Signed: _____

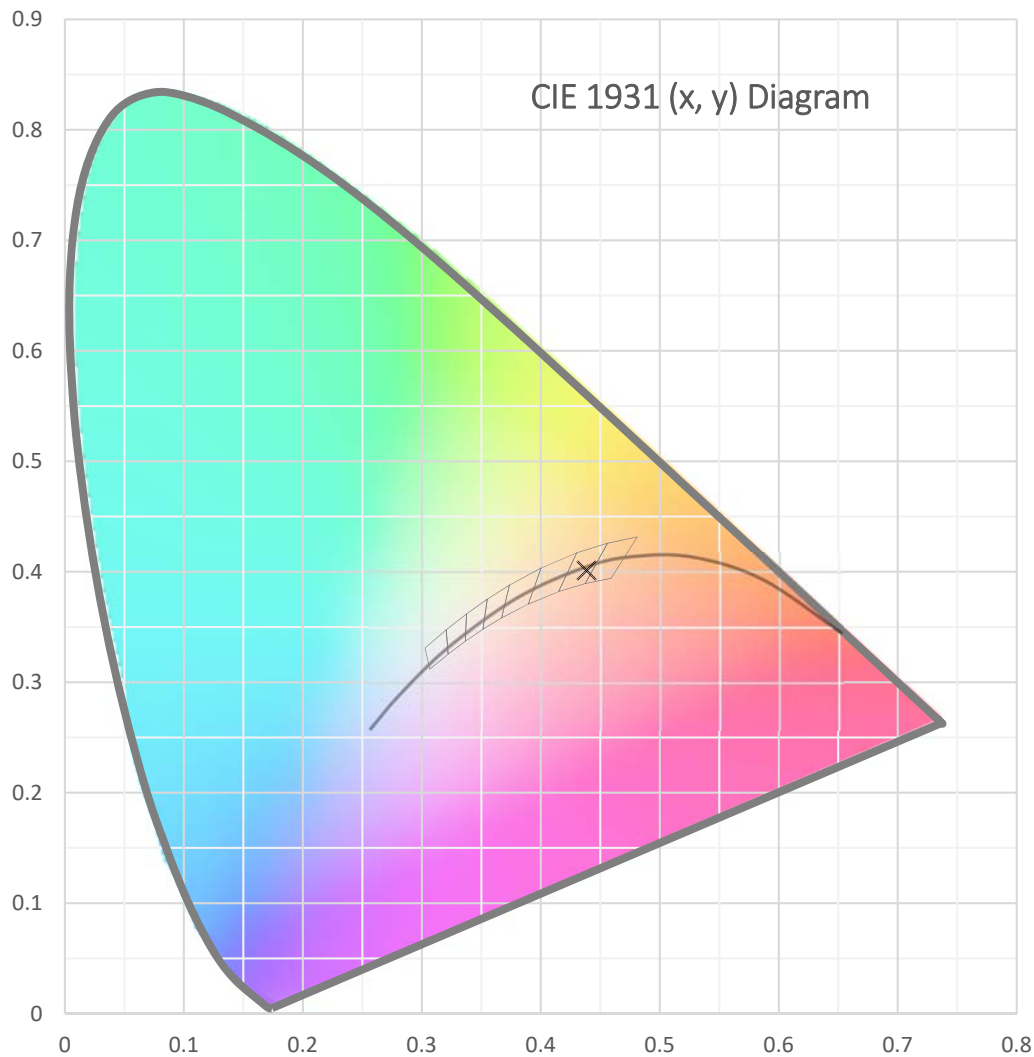


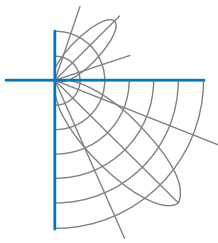
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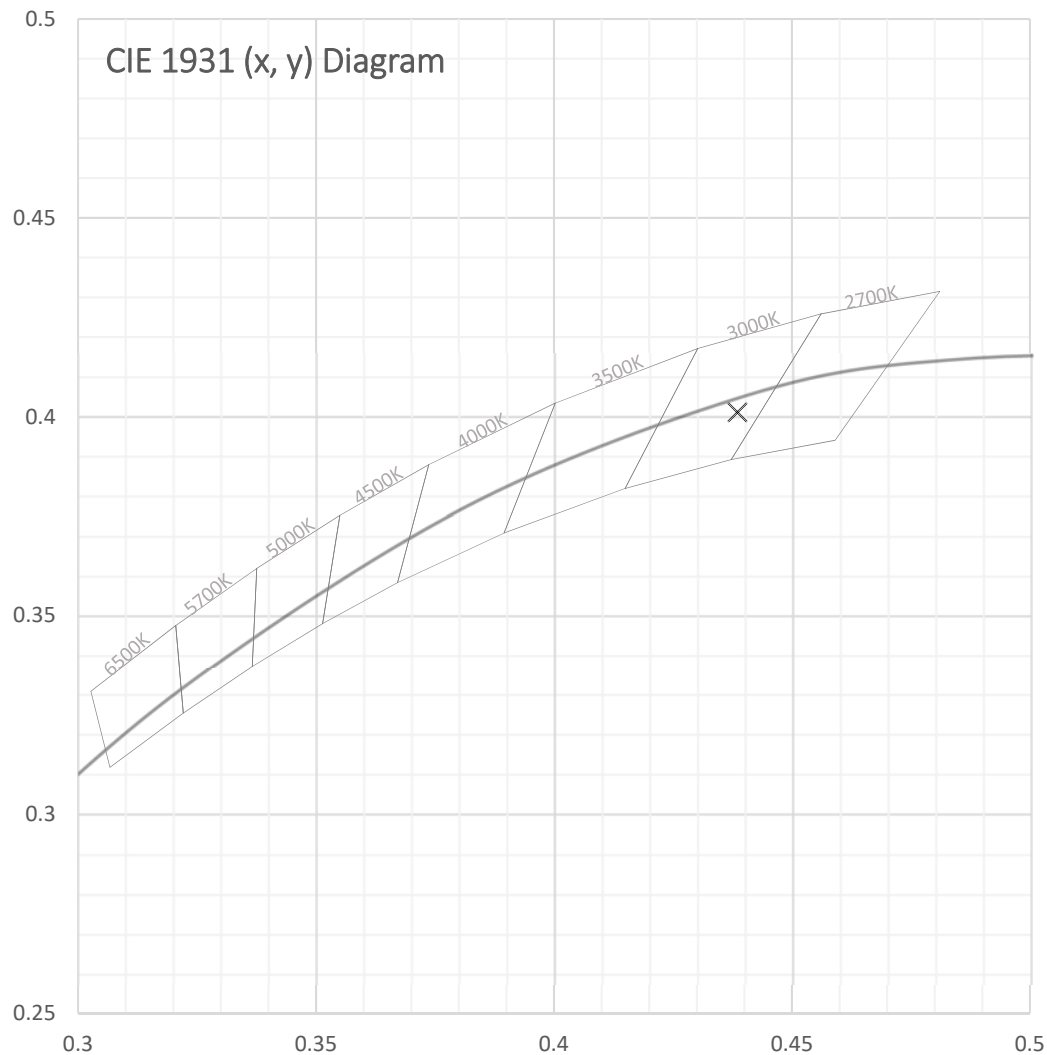


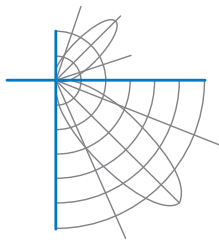
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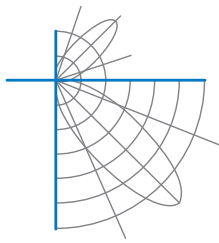
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Spectral Data

Total Radiant Flux	16.55 W
Total Luminous Flux	4399.0 Lm
Chromaticity CIE 1931 (x, y)	(0.4385, 0.4011)
Chromaticity CIE 1976 (u', v')	(0.2529, 0.5204)
Correlated Color Temperature (CCT)	2948 K
Color Rendering Index (Ra)	93
R1	94
R2	95
R3	94
R4	93
R5	93
R6	93
R7	94
R8	87
R9	70
R10	86
R11	93
R12	82
R13	94
R14	95
TM-30: Rf	91
TM-30: Rg	102
Distance from Planckian Locus (Duv)	-0.0014
Scotopic/Photopic Ratio *	1.369

Electrical Data

Voltage	120.0 Vac
Current	0.6072 A
Power	71.74 W
Frequency	59.97 Hz
Power Factor	0.984
Current THD	12.4 %



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Pendant mounted, formed white enamel steel frame with white

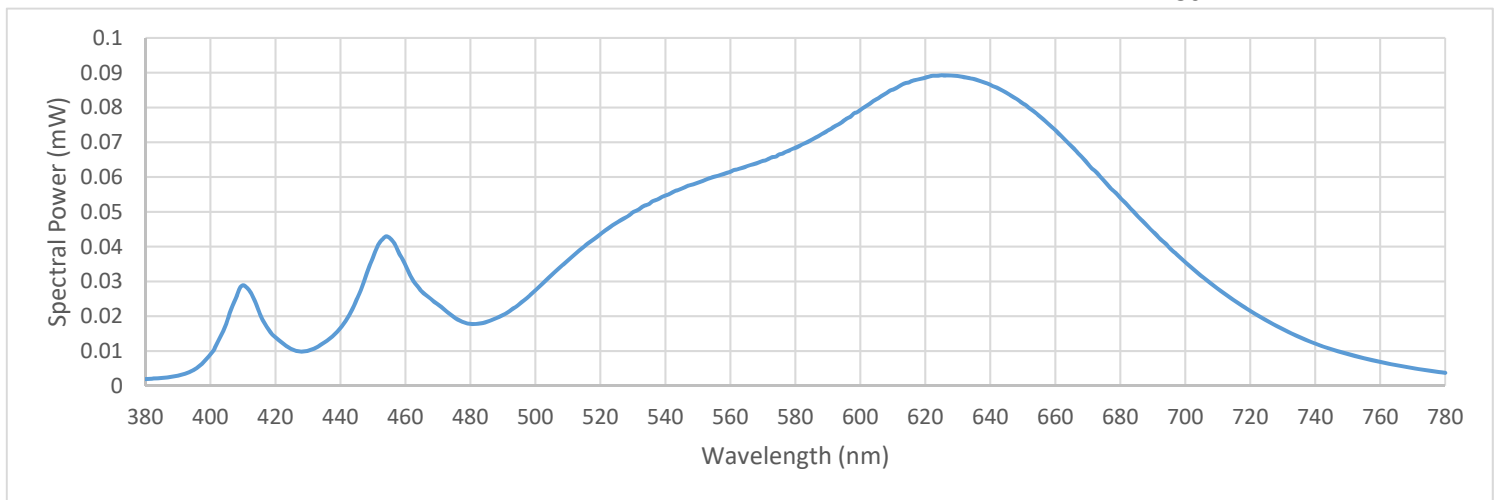
"luminate" diffuser, translucent white top and bottom enclosures.

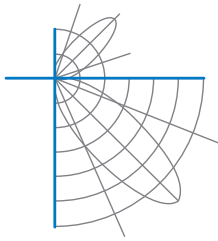
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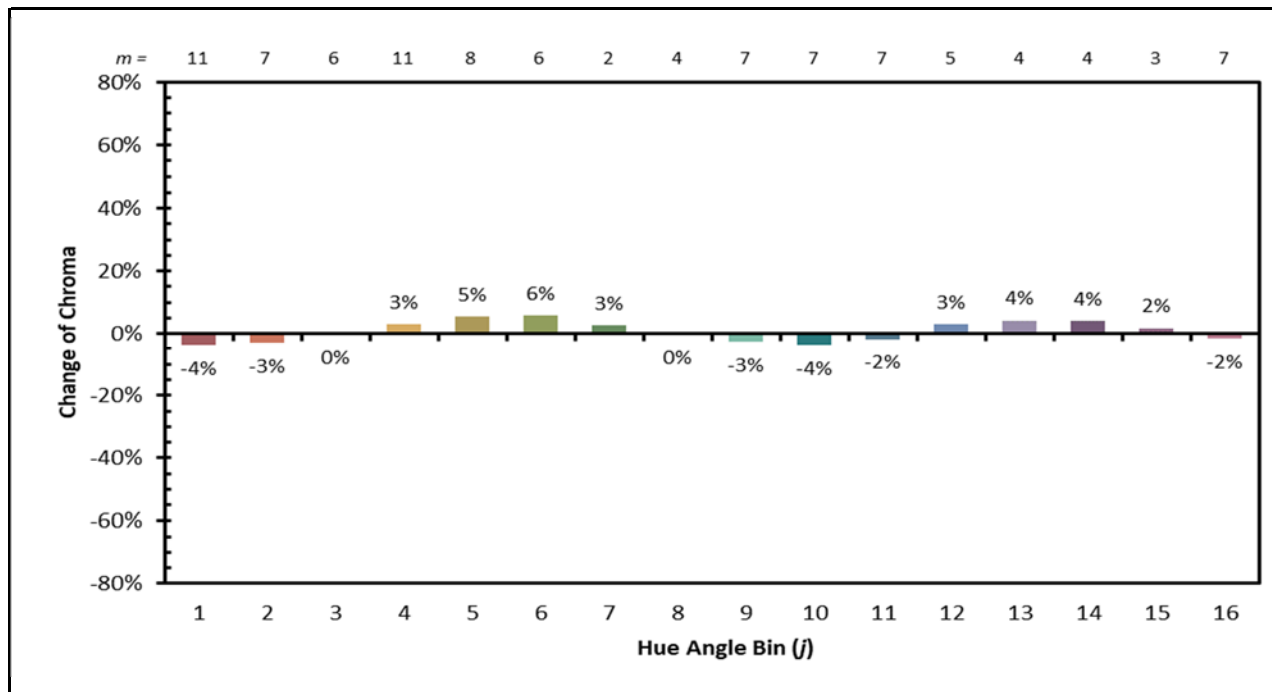
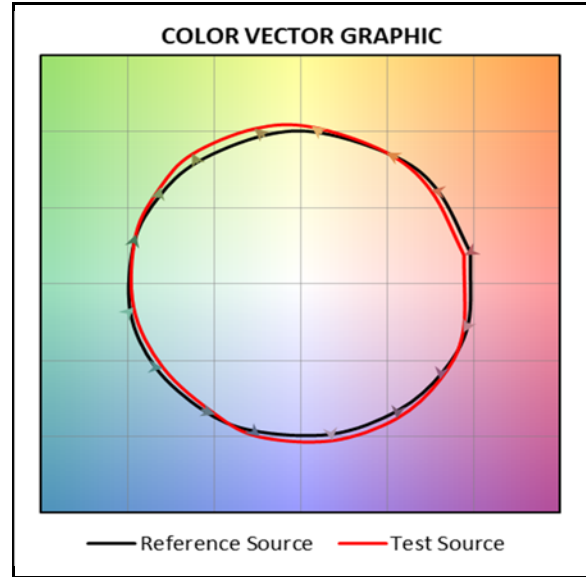
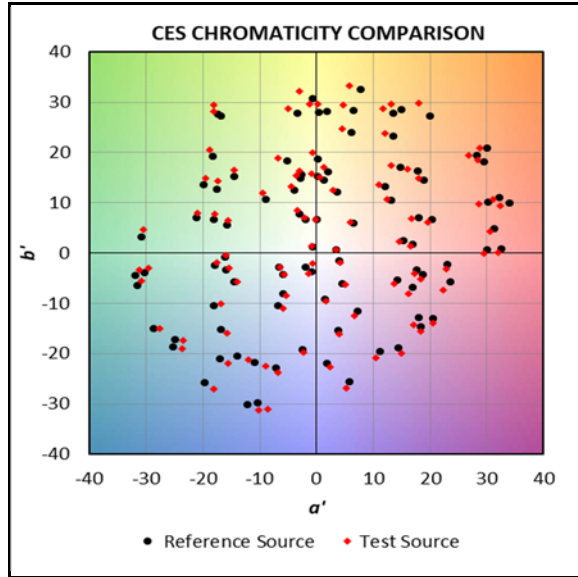
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

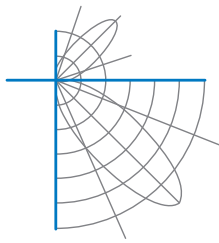
380	0.001935	480	0.017782	580	0.068360	680	0.054019
385	0.002192	485	0.018372	585	0.070731	685	0.049152
390	0.002918	490	0.020346	590	0.073402	690	0.044349
395	0.004643	495	0.023407	595	0.076274	695	0.039767
400	0.009044	500	0.027453	600	0.079267	700	0.035598
405	0.018263	505	0.031858	605	0.082384	705	0.031523
410	0.028888	510	0.036040	610	0.085163	710	0.027824
415	0.021232	515	0.040015	615	0.087225	715	0.024596
420	0.013895	520	0.043625	620	0.088617	720	0.021536
425	0.010529	525	0.046836	625	0.089267	725	0.018714
430	0.010079	530	0.049869	630	0.089074	730	0.016300
435	0.012401	535	0.052264	635	0.088184	735	0.014047
440	0.016599	540	0.054693	640	0.086540	740	0.012070
445	0.024790	545	0.056685	645	0.084235	745	0.010454
450	0.036863	550	0.058418	650	0.081158	750	0.009144
455	0.042616	555	0.060101	655	0.077583	755	0.007928
460	0.034662	560	0.061516	660	0.073529	760	0.006858
465	0.027092	565	0.063094	665	0.068824	765	0.005909
470	0.023401	570	0.064628	670	0.063825	770	0.005062
475	0.019681	575	0.066499	675	0.058907	775	0.004343
						780	0.003733





IES TM-30 Summary





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Test Equipment Configuration: LightLab International Allentown 2m Integrating Sphere
Measurements acquired using a Labsphere CDS 2600 spectroradiometer
Testing was performed using 4 π geometry

Test Temperature: 25.5 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-08, LM-78-07, LM-58-13, ANSI_ANSLG C78.377-2015,
ANSI C82-77-10:2014, TM-30-15

Significance: The laboratory has not participated in the selection of samples to be tested.
All testing is performed on the understanding that the significance of the report
is limited to the extent that the test sample is representative of production units.

Notes: The measurements and other derived quantities contained in this report
are based on the absolute data as measured.

Prorating the performance of the sample for the use of other component
combinations (such as lamp / LED / Ballast / driver), or for use in different
environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections

This report may contain data that are not covered by the NVLAP accreditation.
Quantities marked with * are not covered.