



## Report of Test

LLIA000901-009B

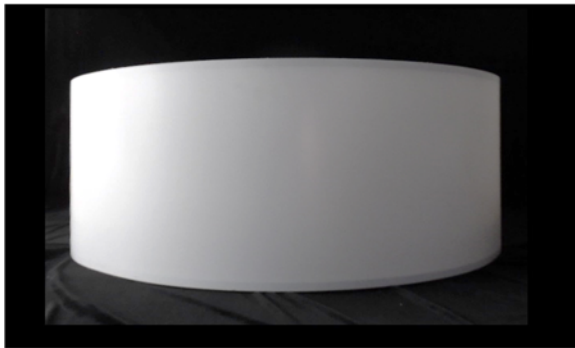
Integrating Sphere Report

Catalog Number: P53414/F11/D61/L414

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

Six white LED modules with clear patterned hemispherical lenses below each.

Two ERP ESP050W-1200-42 LED drivers and two ERP ESS030W-0620-42 LED drivers



### Performance Summary

Voltage	120.0 Vac
Current	1.211 A
Power	142.9 W
Frequency	59.97 Hz
Power Factor	0.983
Current THD	12.4 %

Total Luminous Flux	9631.2 lm
Efficacy	67.4 lm/W
Chromaticity (x,y)	(0.4359, 0.3983)
(u',v')	(0.2524, 0.5189)
Duv	-0.0022
CCT	2970 K
CRI (Ra)	93
R9	71
TM-30: Rf	91
TM-30: Rg	102

Prepared For:

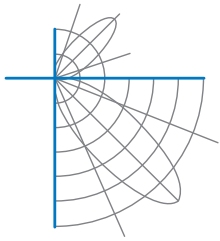
Lumetta, Inc

33 Minnesota Avenue

Warwick, RI 02888, USA

Test date: 12/01/2017

Report date: 12/13/2017



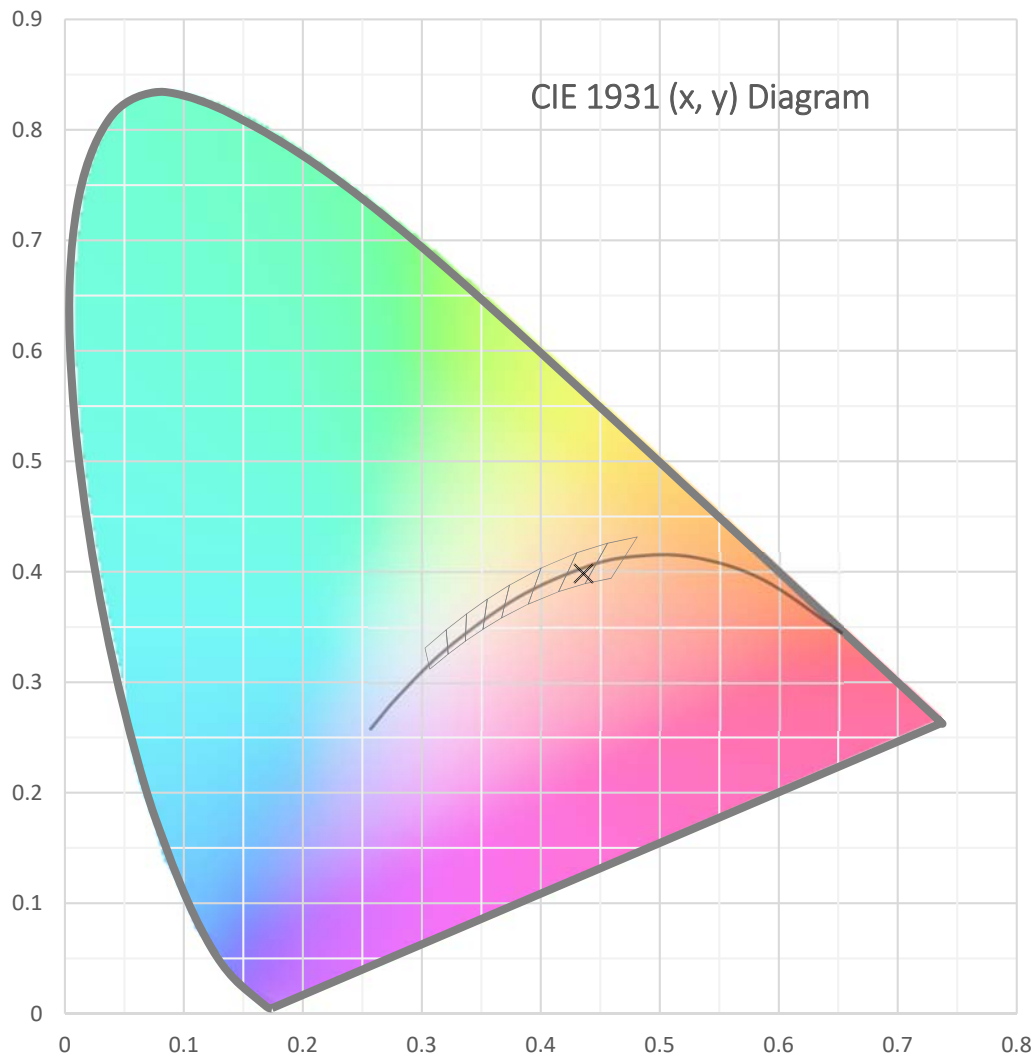
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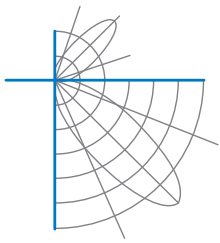
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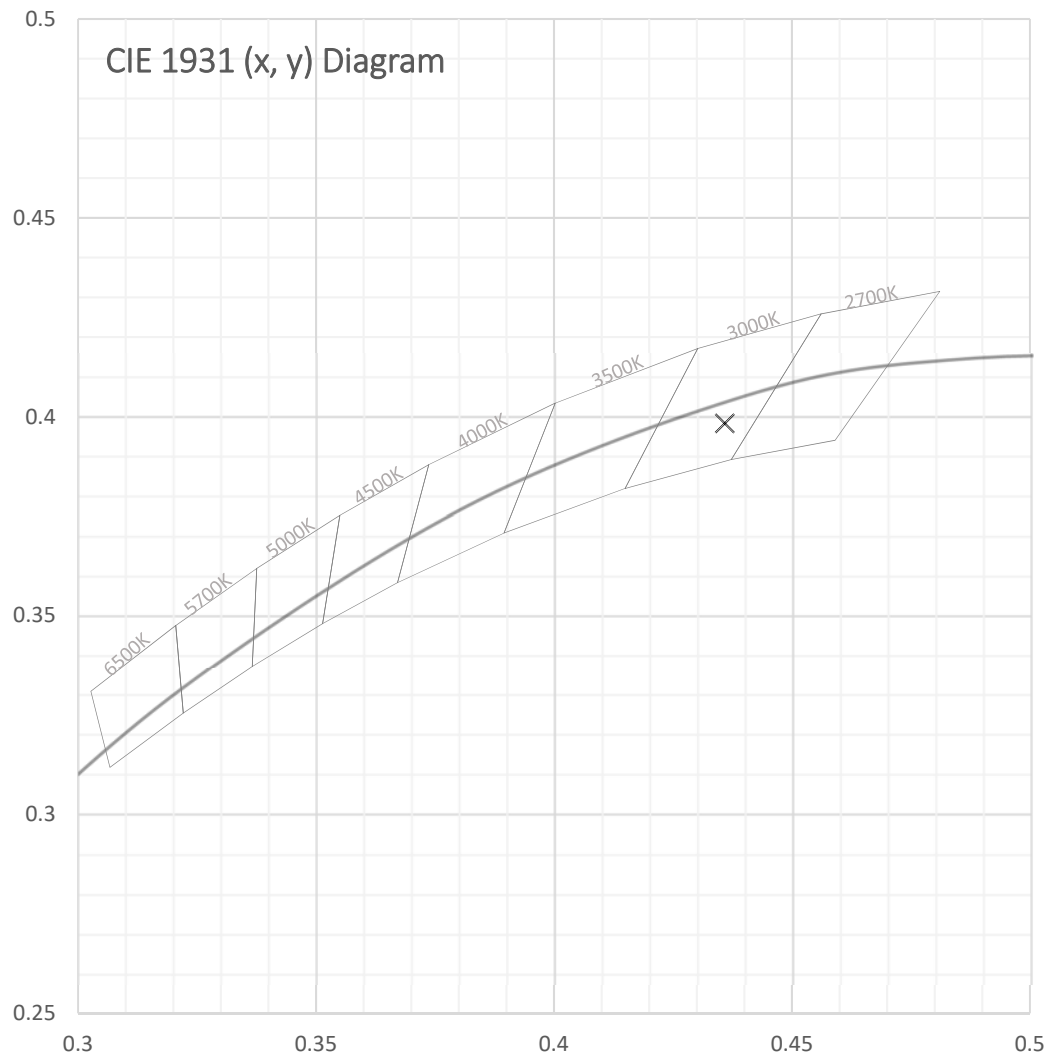
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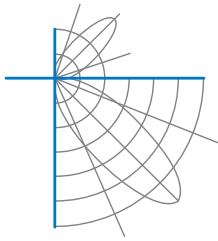
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<b>Spectral Data</b>	Total Radiant Flux	36.51 W
	Total Luminous Flux	9631.2 Lm
	Chromaticity CIE 1931 (x, y)	(0.4359, 0.3983)
	Chromaticity CIE 1976 (u', v')	(0.2524, 0.5189)
	Correlated Color Temperature (CCT)	2970 K
	Color Rendering Index (Ra)	93
	R1	94
	R2	96
	R3	94
	R4	93
	R5	93
	R6	94
	R7	94
	R8	88
	R9	71
	R10	88
	R11	93
	R12	82
	R13	95
	R14	96
	TM-30: Rf	91
	TM-30: Rg	102
	Distance from Planckian Locus (Duv)	-0.0022
	Scotopic/Photopic Ratio *	1.389

**Electrical Data**

Voltage	120.0 Vac
Current	1.211 A
Power	142.9 W
Frequency	59.97 Hz
Power Factor	0.983
Current THD	12.4 %



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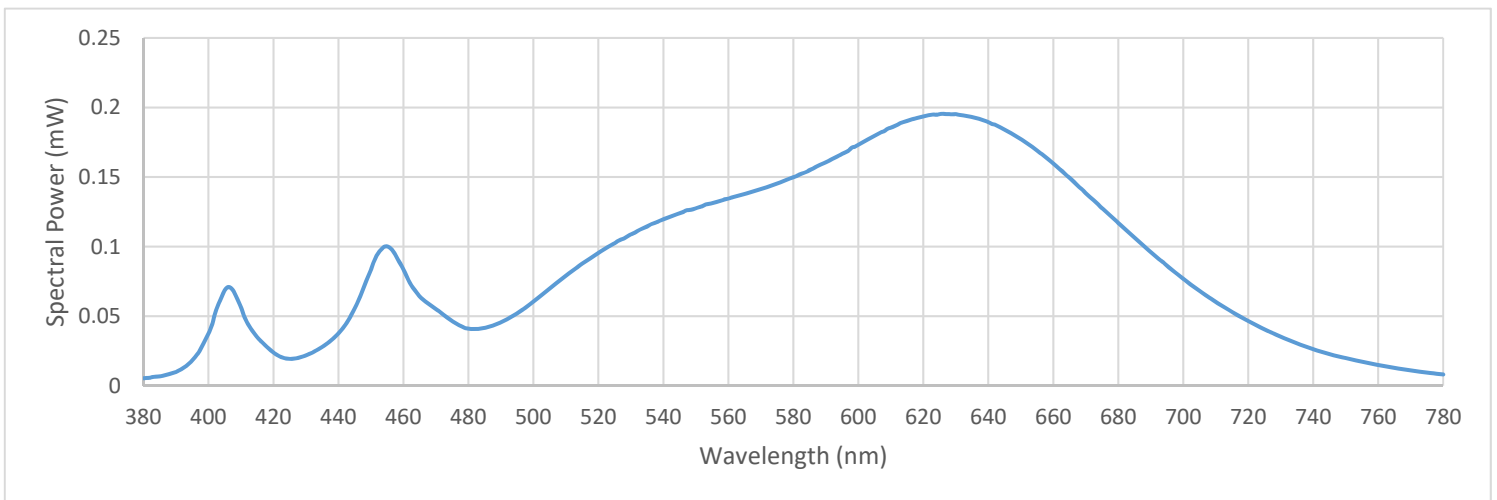
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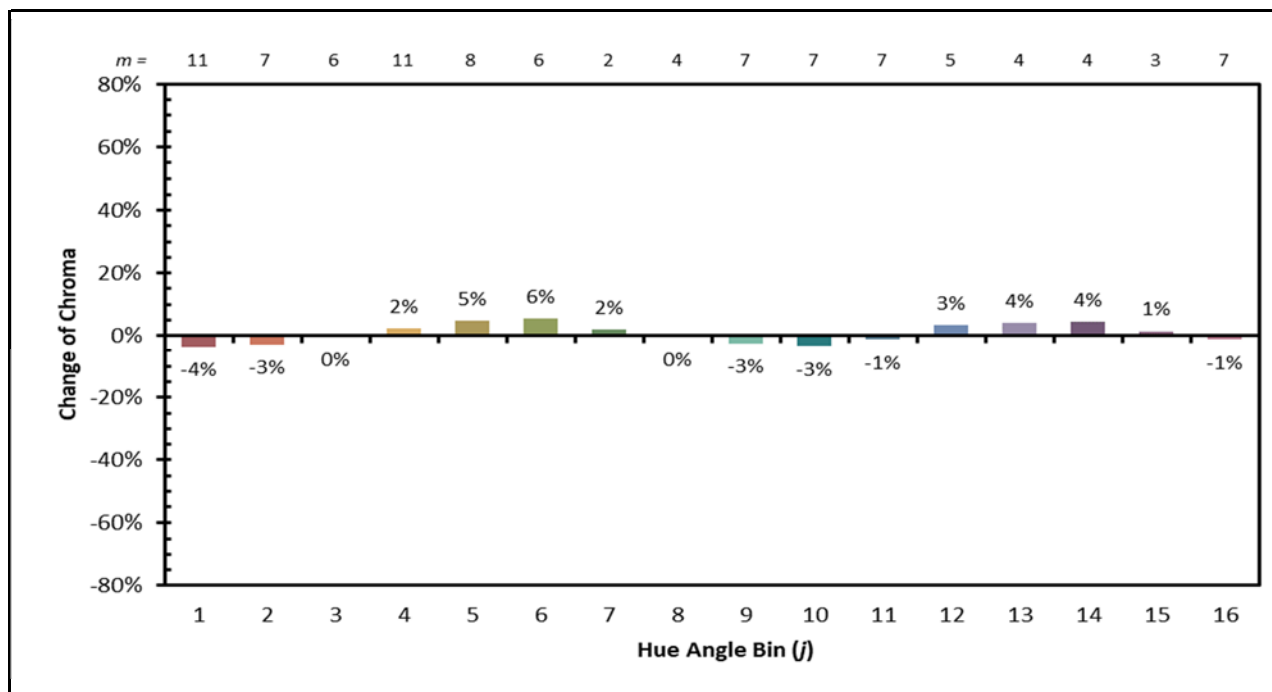
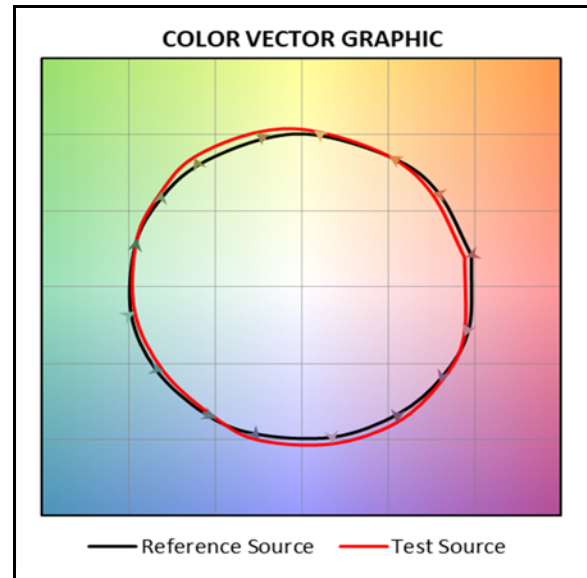
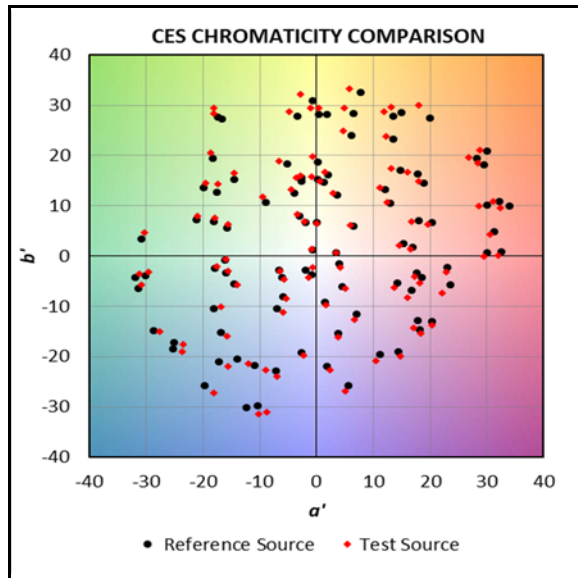
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.005441	480	0.041095	580	0.149867	680	0.117004
385	0.006739	485	0.041709	585	0.155073	685	0.106550
390	0.009885	490	0.045730	590	0.160528	690	0.096009
395	0.018097	495	0.052021	595	0.166661	695	0.086024
400	0.037481	500	0.060528	600	0.173383	700	0.076907
405	0.068600	505	0.069872	605	0.179718	705	0.068169
410	0.056601	510	0.078900	610	0.185515	710	0.060147
415	0.034954	515	0.087799	615	0.190296	715	0.053133
420	0.023790	520	0.095530	620	0.193697	720	0.046475
425	0.019273	525	0.102459	625	0.195208	725	0.040531
430	0.021822	530	0.108790	630	0.195202	730	0.035322
435	0.027851	535	0.114413	635	0.193113	735	0.030488
440	0.037754	540	0.119538	640	0.189596	740	0.026222
445	0.055668	545	0.123993	645	0.184016	745	0.022725
450	0.083352	550	0.127633	650	0.177357	750	0.019918
455	0.100161	555	0.131268	655	0.169054	755	0.017287
460	0.083715	560	0.134474	660	0.159992	760	0.014944
465	0.064184	565	0.137839	665	0.149566	765	0.012879
470	0.055082	570	0.141349	670	0.138396	770	0.011018
475	0.046557	575	0.145188	675	0.127629	775	0.009466
						780	0.008156





IES TM-30 Details





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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  $4\pi$  geometry

Test Temperature: 26.0 °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.