LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA001617-001

Integrating Sphere Report

Catalog Number: LPT27W-850-E39-G4 Low Setting (12W)

Mogul-base retrofit lamp mounted VBU, formed plastic housing, formed aluminum heatsinks, clear plastic enclosures. 112 white LEDs, 6 CLW08E-27WC-16C1B-2835-A0 LED boards with 16 LEDS each and one CLW08E-27WD-16C1B-2835-A0 LED board with 16 LEDs

One internal LED driver

Performance Summary

Voltage	120.0	Vac
Current	0.1097	A
Power	12.20	W
Frequency	59.99	Hz
Power Factor	0.927	
Current THD	14.5	%
Total Luminous Flux	2042.5	lm
Efficacy	167.4	lm/W
Chromaticity (x,y)	(0.3432, 0.3552)	
(u',v')	(0.2088, 0.4861)	
Duv	0.0026	
CCT	5084	K
CRI (Ra)	82	
R9	2	
TM-30: Rf	81	
TM-30: Rg	96	
TM-30: Rcs,h1	-13	

Prepared For:
Topaz Lighting Corp
925 Waverly Avenue
Holtsville, NY 11742, USA

Test date: 12/27/2021
Report date: 12/30/2021

Signed: Michael L. Grather

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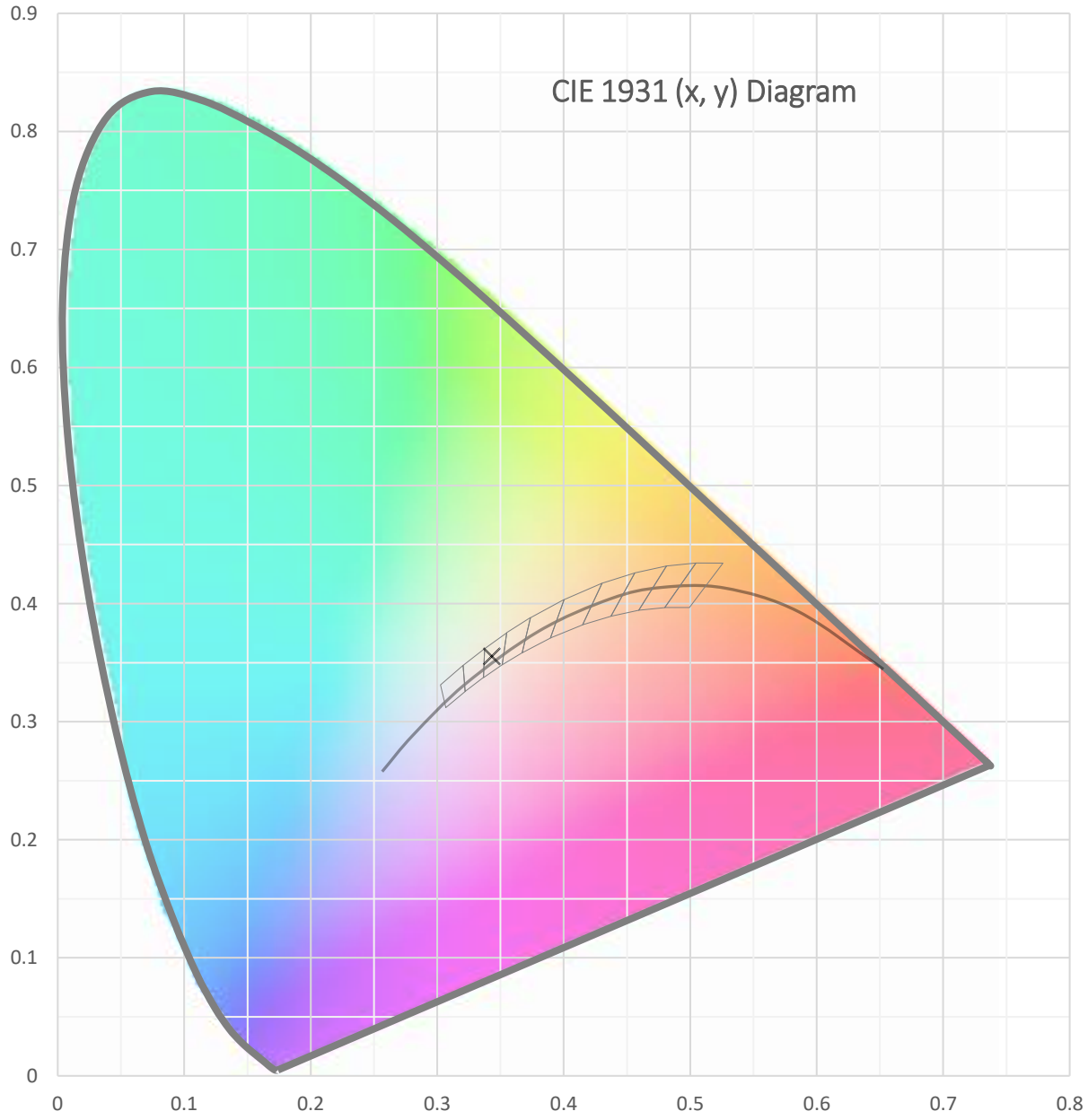

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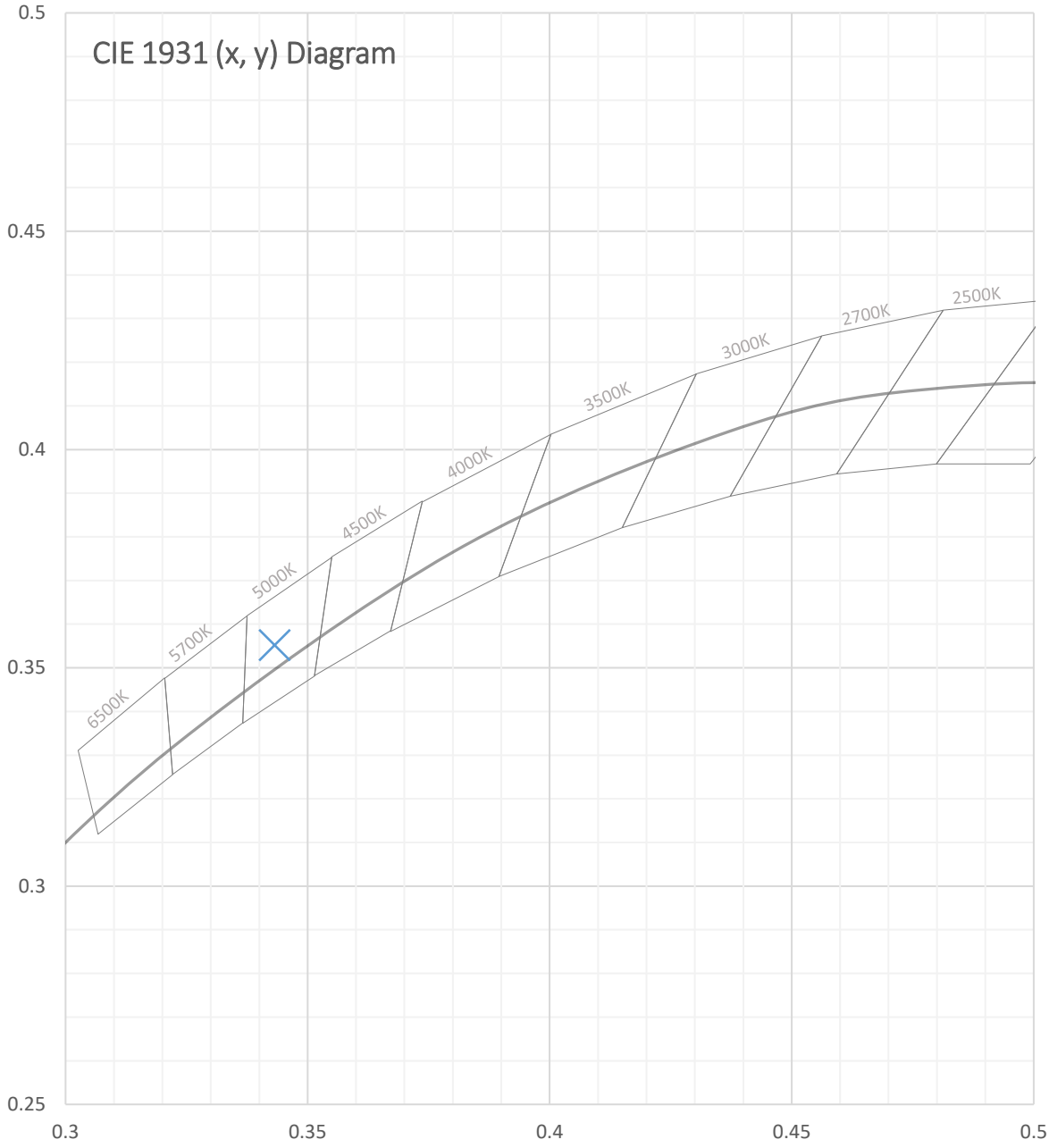

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Total Radiant Flux	6.355	W
Total Luminous Flux	2042.5	Lm
Chromaticity CIE 1931 (x, y)	(0.3432, 0.3552)	
Chromaticity CIE 1976 (u', v')	(0.2088, 0.4861)	
Correlated Color Temperature (CCT)	5084	K
Color Rendering Index (Ra)	82	
R1	80	
R2	86	
R3	91	
R4	82	
R5	81	
R6	81	
R7	86	
R8	66	
R9	2	
R10	67	
R11	82	
R12	61	
R13	81	
R14	95	
TM-30: Rf	81	
TM-30: Rg	96	
TM-30: Rcs,h1	-13	
Distance from Planckian Locus (Duv)	0.0026	
Scotopic/Photopic Ratio ǂ	1.943	

Electrical Data

Voltage	120.0	Vac
Current	0.1097	A
Power	12.20	W
Frequency	59.99	Hz
Power Factor	0.927	
Current THD	14.5	%

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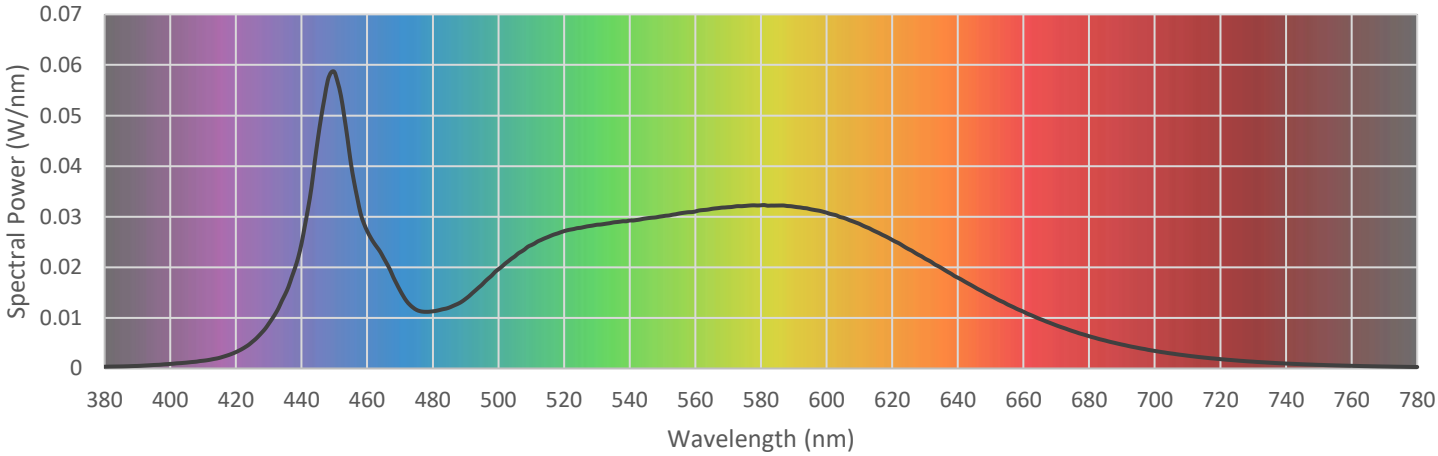
Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

380	0.000350	480	0.011298	580	0.032256	680	0.006376
385	0.000402	485	0.012033	585	0.032210	685	0.005505
390	0.000500	490	0.013765	590	0.031993	690	0.004729
395	0.000689	495	0.016567	595	0.031489	695	0.004050
400	0.000899	500	0.019614	600	0.030798	700	0.003466
405	0.001159	505	0.022158	605	0.029809	705	0.002967
410	0.001526	510	0.024380	610	0.028589	710	0.002529
415	0.002102	515	0.025962	615	0.027050	715	0.002159
420	0.003235	520	0.027146	620	0.025408	720	0.001844
425	0.005276	525	0.027802	625	0.023591	725	0.001572
430	0.008846	530	0.028414	630	0.021717	730	0.001348
435	0.014659	535	0.028870	635	0.019865	735	0.001141
440	0.024747	540	0.029259	640	0.017945	740	0.000975
445	0.045511	545	0.029667	645	0.016122	745	0.000833
450	0.058610	550	0.030094	650	0.014370	750	0.000712
455	0.040727	555	0.030627	655	0.012700	755	0.000610
460	0.027170	560	0.031029	660	0.011221	760	0.000526
465	0.021858	565	0.031554	665	0.009786	765	0.000450
470	0.015453	570	0.031882	670	0.008525	770	0.000387
475	0.011589	575	0.032123	675	0.007386	775	0.000335
						780	0.000287



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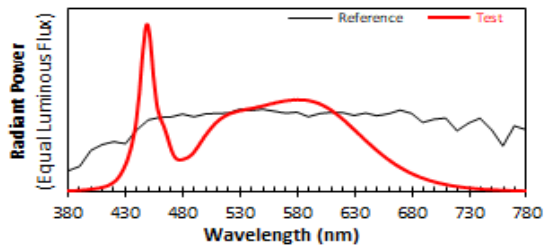
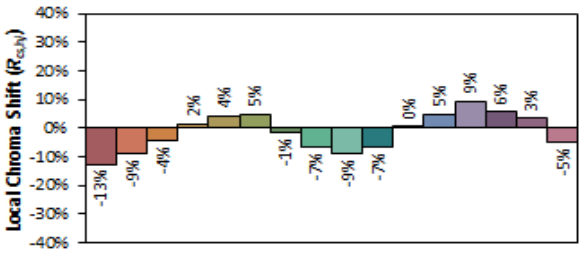
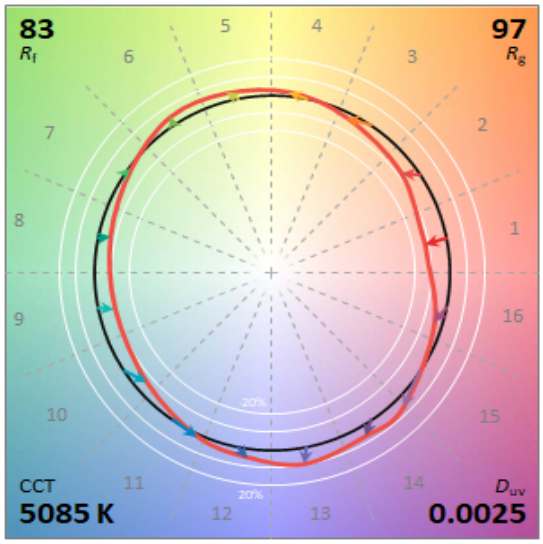
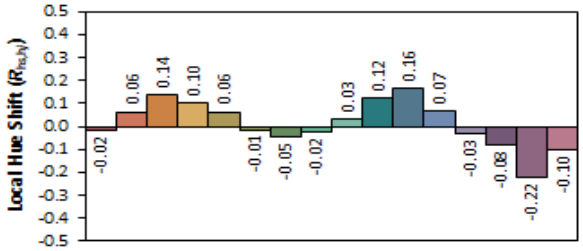
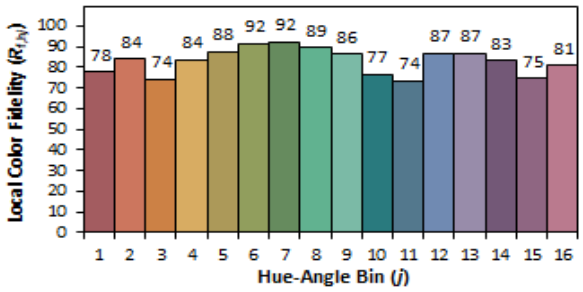
IES TM-30 Details

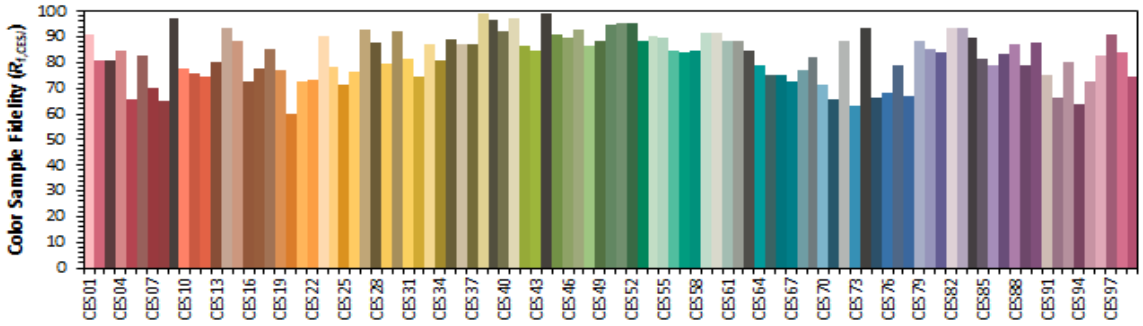












Notes:

x	0.3432
y	0.3551
u'	0.2088
v'	0.4861

CIE 13.3-1995 (CRI)

R_a	82
R_9	2

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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 4π geometry
Test Temperature:	24.6 °C
Test Procedure:	Tested in accordance with the applicable sections of: LM-79-19, LM-78-20, LM-58-20, ANSI_ANSLG C78.377-2017, TM-30-20
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. 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.

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