LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA001617-016

Integrating Sphere Report

Catalog Number: LPT120W-850-EX39-G4 Low Setting (80W)

Mogul-base retrofit lamp mounted VBU, formed plastic housing, formed aluminum heatsinks, clear plastic enclosures. 494 white LEDs, 12 CLW08E-120WC-19C2B-2835-A1 LED boards with 38 LEDS each and one CLW08E-120WD-19C2B-2835-A0 LED board with 38 LEDs

One internal LED driver

Performance Summary

Voltage	120.0	Vac
Current	0.6671	A
Power	79.53	W
Frequency	59.99	Hz
Power Factor	0.993	
Current THD	6.3	%
Total Luminous Flux	13214.9	lm
Efficacy	166.2	lm/W
Chromaticity (x,y)	(0.3429, 0.3543)	
(u',v')	(0.2089, 0.4857)	
Duv	0.0022	
CCT	5091	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: 12/30/2021
Report date: 12/30/2021

Signed: Michael L. Grather

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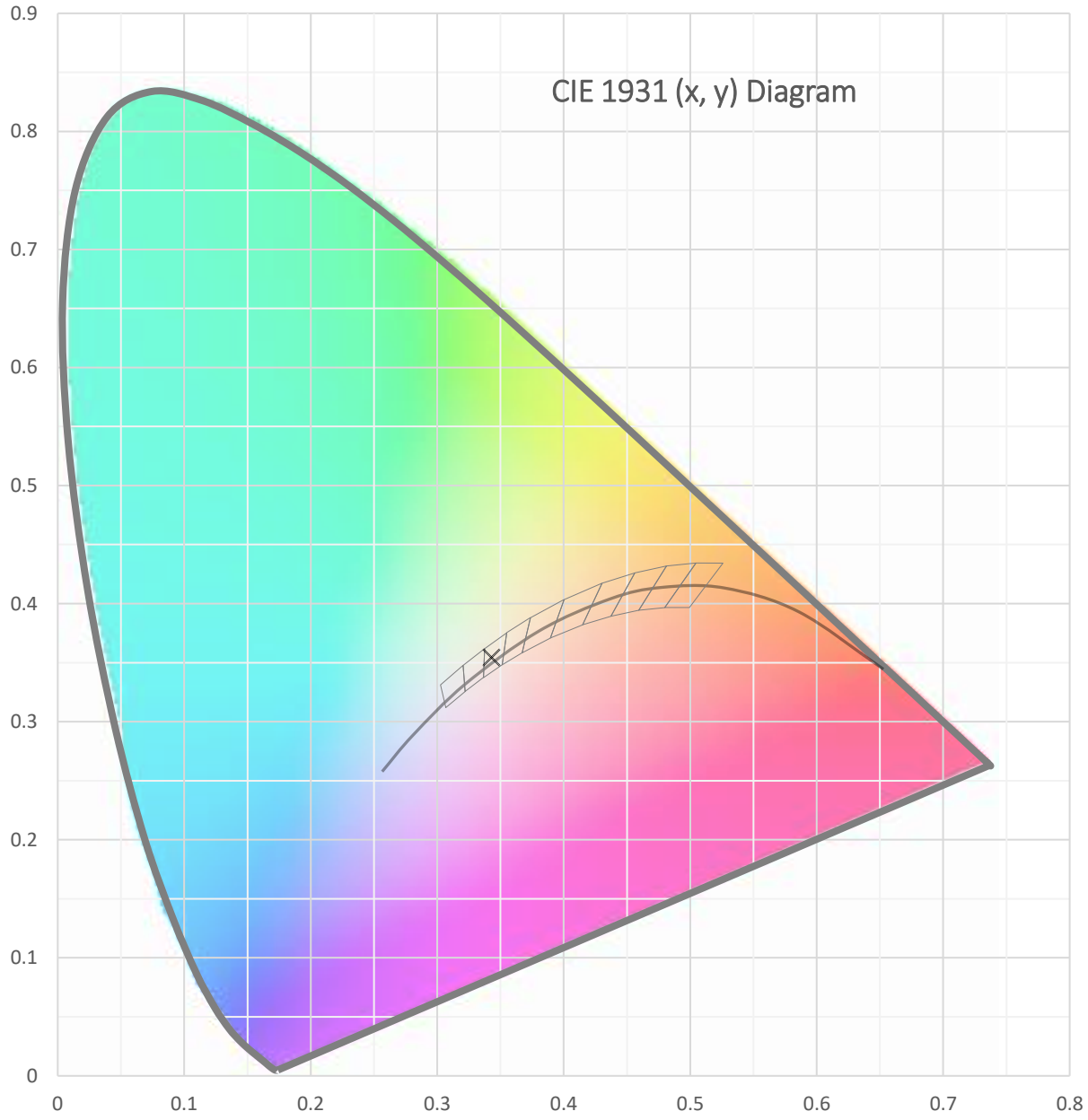

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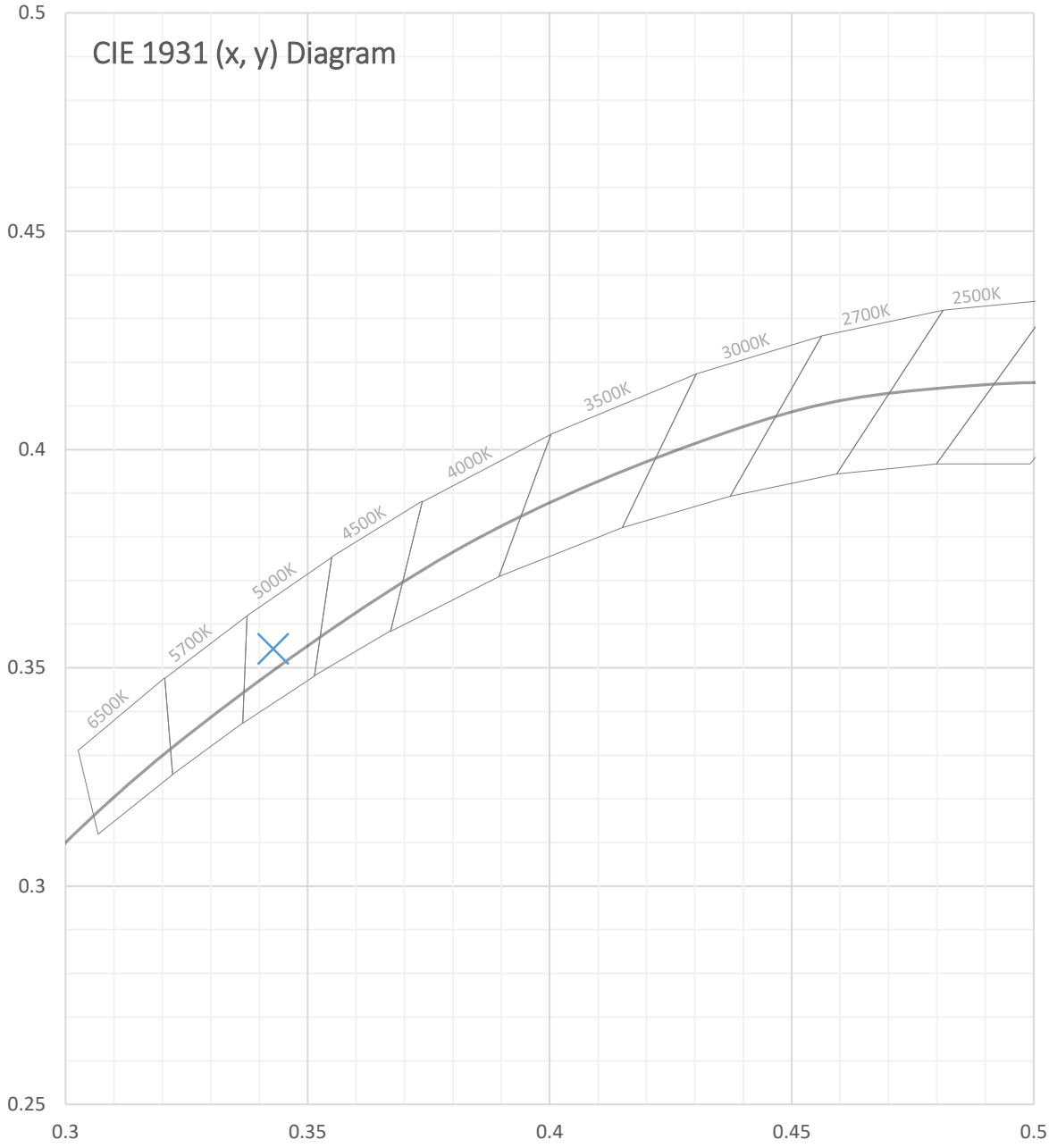

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Total Radiant Flux	41.23	W
Total Luminous Flux	13214.9	Lm
Chromaticity CIE 1931 (x, y)	(0.3429, 0.3543)	
Chromaticity CIE 1976 (u', v')	(0.2089, 0.4857)	
Correlated Color Temperature (CCT)	5091	K
Color Rendering Index (Ra)	82	
R1	80	
R2	86	
R3	91	
R4	82	
R5	81	
R6	81	
R7	86	
R8	66	
R9	2	
R10	68	
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)	0.0022	
Scotopic/Photopic Ratio ǂ	1.946	

Electrical Data

Voltage	120.0	Vac
Current	0.6671	A
Power	79.53	W
Frequency	59.99	Hz
Power Factor	0.993	
Current THD	6.3	%

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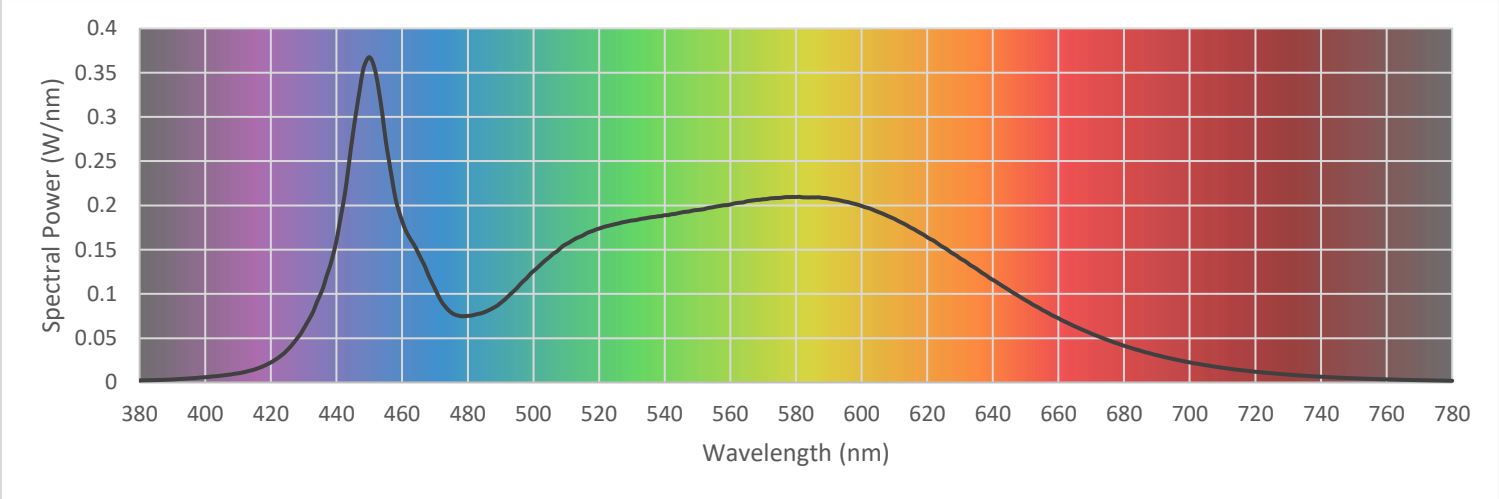
Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

380	0.002350	480	0.075212	580	0.209444	680	0.041470
385	0.002703	485	0.079302	585	0.209067	685	0.035866
390	0.003368	490	0.089842	590	0.207819	690	0.030817
395	0.004556	495	0.106737	595	0.204287	695	0.026434
400	0.005965	500	0.125803	600	0.199437	700	0.022695
405	0.007769	505	0.141980	605	0.192693	705	0.019420
410	0.010334	510	0.156326	610	0.184859	710	0.016613
415	0.014669	515	0.165936	615	0.174832	715	0.014184
420	0.022648	520	0.173824	620	0.164046	720	0.012113
425	0.036699	525	0.178928	625	0.152586	725	0.010372
430	0.060906	530	0.182967	630	0.140289	730	0.008892
435	0.098801	535	0.186093	635	0.128444	735	0.007573
440	0.160612	540	0.188978	640	0.115893	740	0.006469
445	0.281216	545	0.191960	645	0.104271	745	0.005553
450	0.367465	550	0.194802	650	0.092855	750	0.004754
455	0.272890	555	0.198201	655	0.082100	755	0.004073
460	0.182083	560	0.201016	660	0.072532	760	0.003512
465	0.145299	565	0.204634	665	0.063366	765	0.003008
470	0.105747	570	0.206956	670	0.055210	770	0.002589
475	0.078877	575	0.208484	675	0.047958	775	0.002236
						780	0.001938



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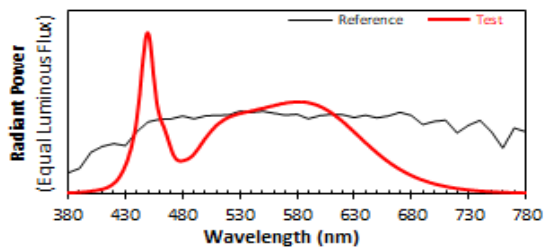
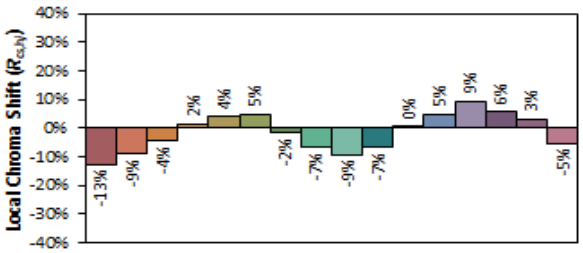
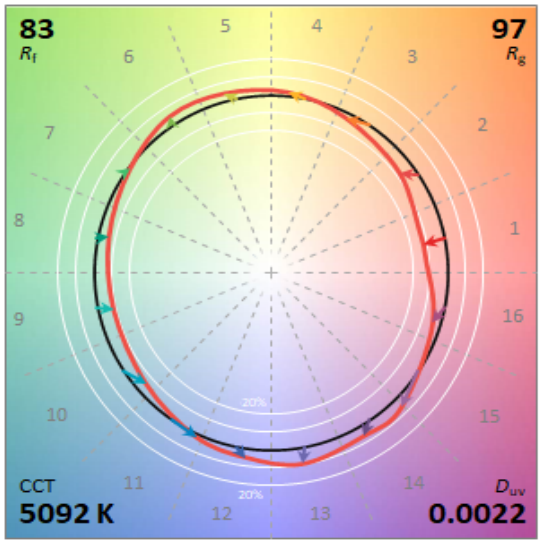
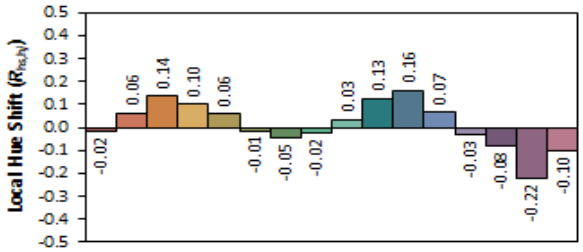
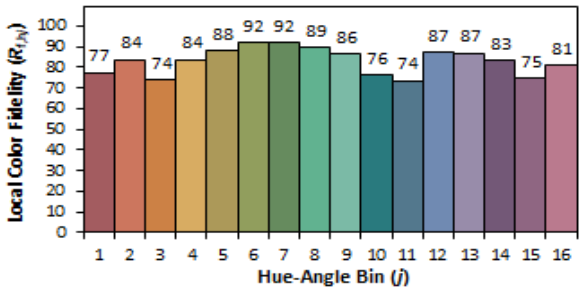
IES TM-30 Details

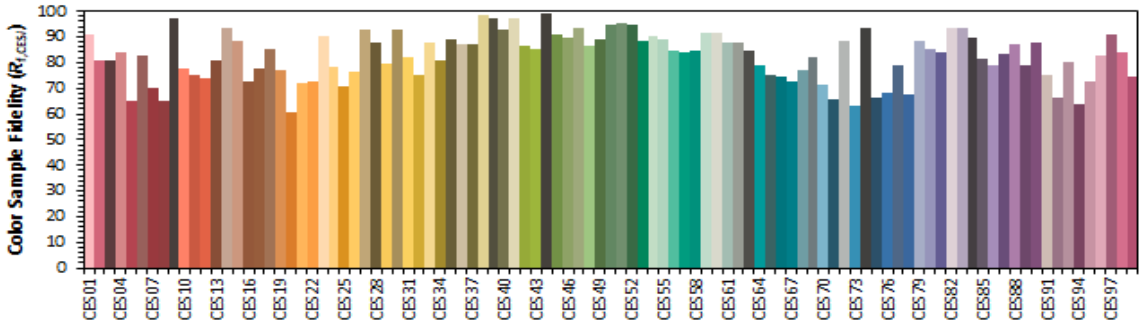












Notes:

x	0.3429
y	0.3542
u'	0.2089
v'	0.4856

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:	25.1 °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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