

Report of Test

LLIA001617-010

Integrating Sphere Report

Catalog Number: LPT80W-850-EX39-G4 Low Setting (54W)

Mogul-base retrofit lamp mounted VBU, formed plastic housing, formed aluminum heatsinks, clear plastic enclosures. 350 white LEDs, 12 CLW08E-80WC-14C2B-2835-A1 LED boards with 28 LEDs each and one CLW08E-80WD-14C1B-2835-A1 LED board with 14 LEDs

One internal LED driver



Performance Summary

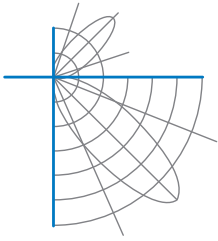
Voltage	120.0 Vac
Current	0.4332 A
Power	51.22 W
Frequency	59.99 Hz
Power Factor	0.985
Current THD	10.9 %
Total Luminous Flux	8714.6 lm
Efficacy	170.1 lm/W
Chromaticity (x,y)	(0.3435, 0.3554)
(u',v')	(0.2089, 0.4863)
Duv	0.0026
CCT	5075 K
CRI (Ra)	81
R9	1
TM-30: Rf	81
TM-30: Rg	96
TM-30: Rcs,h1	-13

Prepared For:

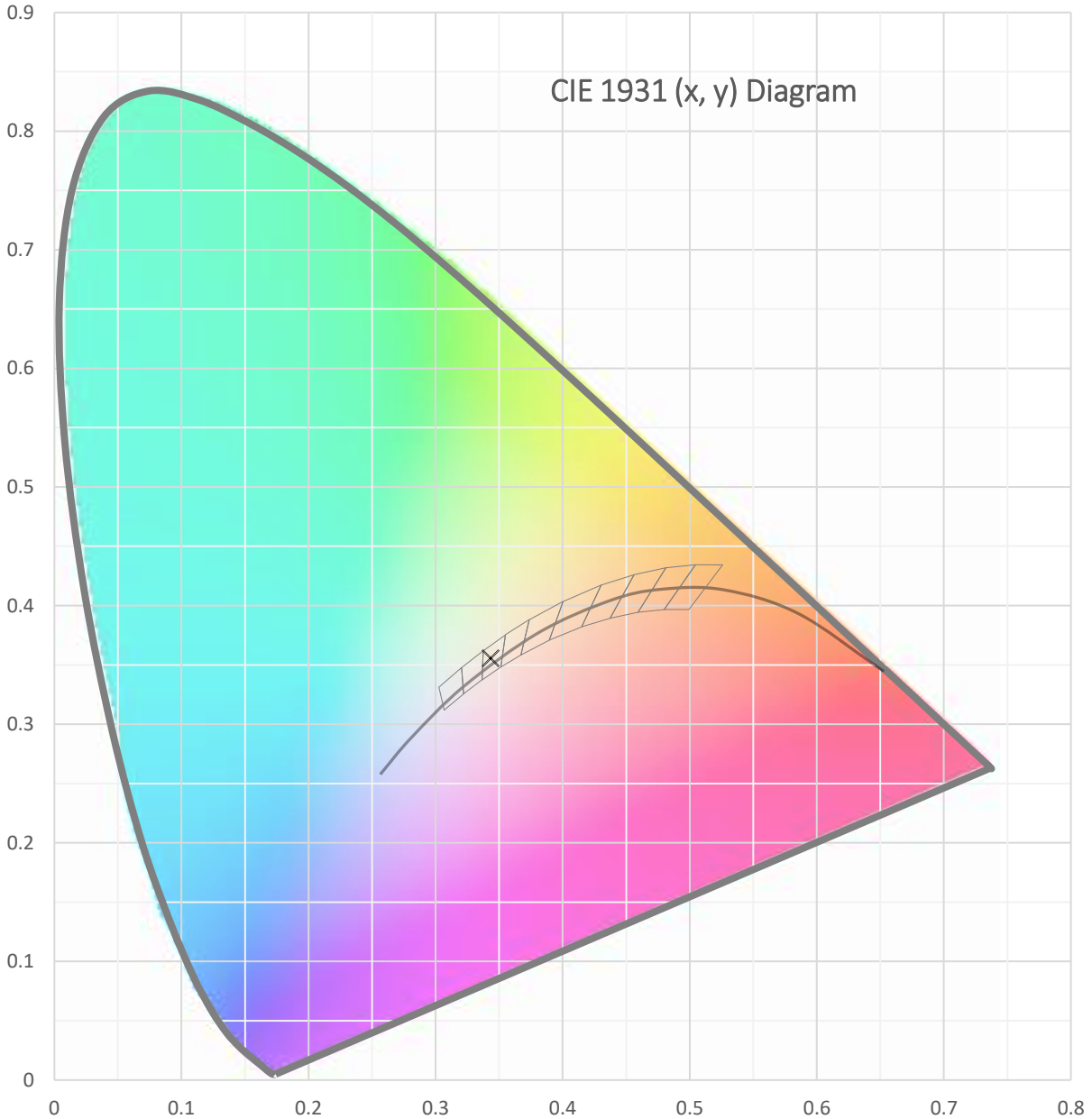
Topaz Lighting Corp
925 Waverly Avenue
Holtsville, NY 11742, USA

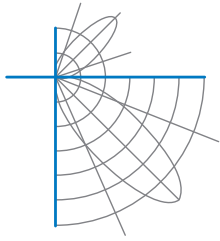
Test date: 12/28/2021
Report date: 12/30/2021

Signed: _____

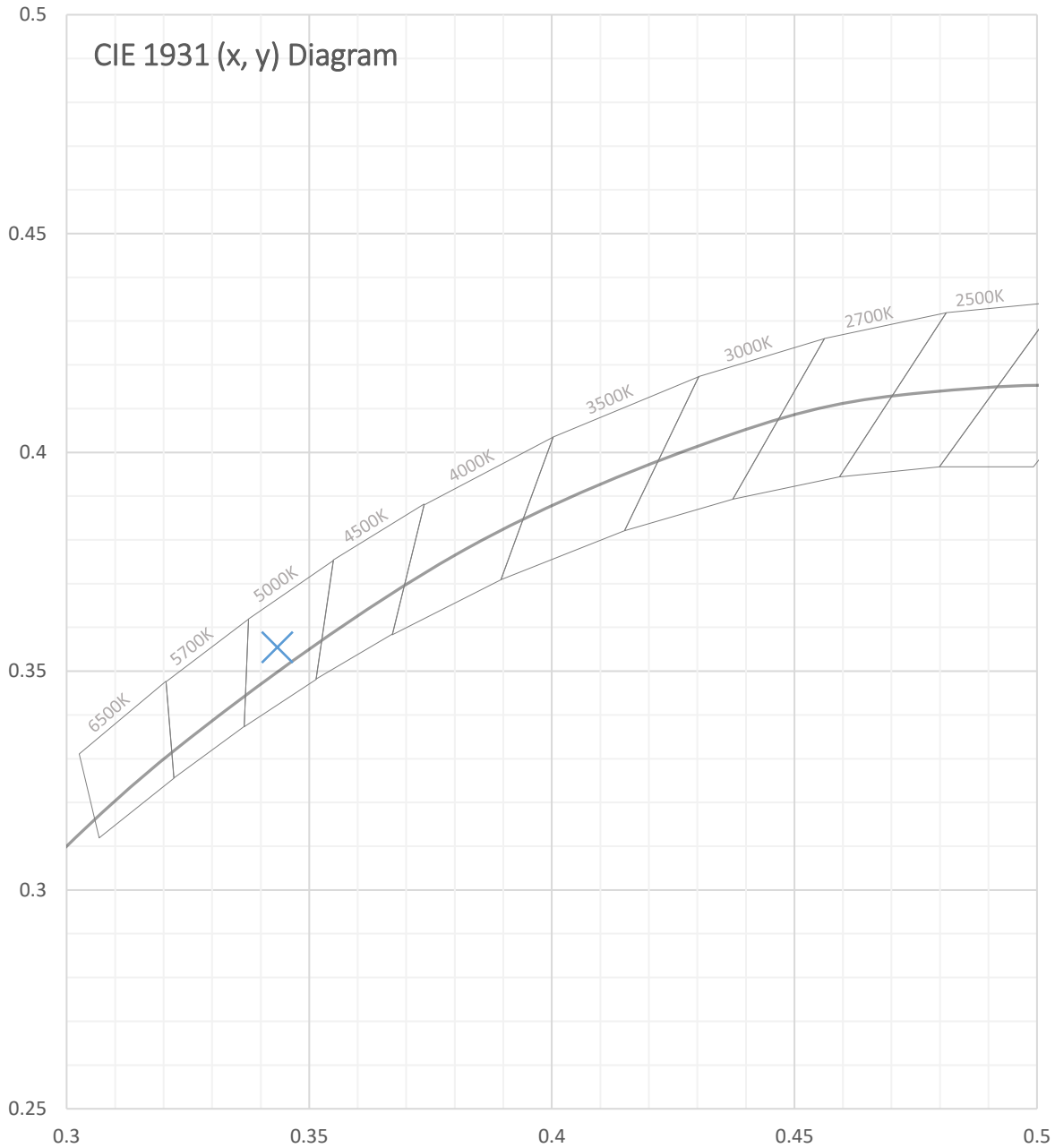


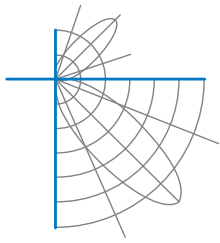
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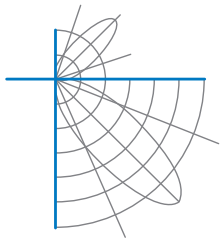


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Total Radiant Flux	27.10 W
Total Luminous Flux	8714.6 Lm
Chromaticity CIE 1931 (x, y)	(0.3435, 0.3554)
Chromaticity CIE 1976 (u', v')	(0.2089, 0.4863)
Correlated Color Temperature (CCT)	5075 K
Color Rendering Index (Ra)	81
R1	80
R2	86
R3	91
R4	82
R5	81
R6	81
R7	86
R8	66
R9	1
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 ‡	1.938

Electrical Data

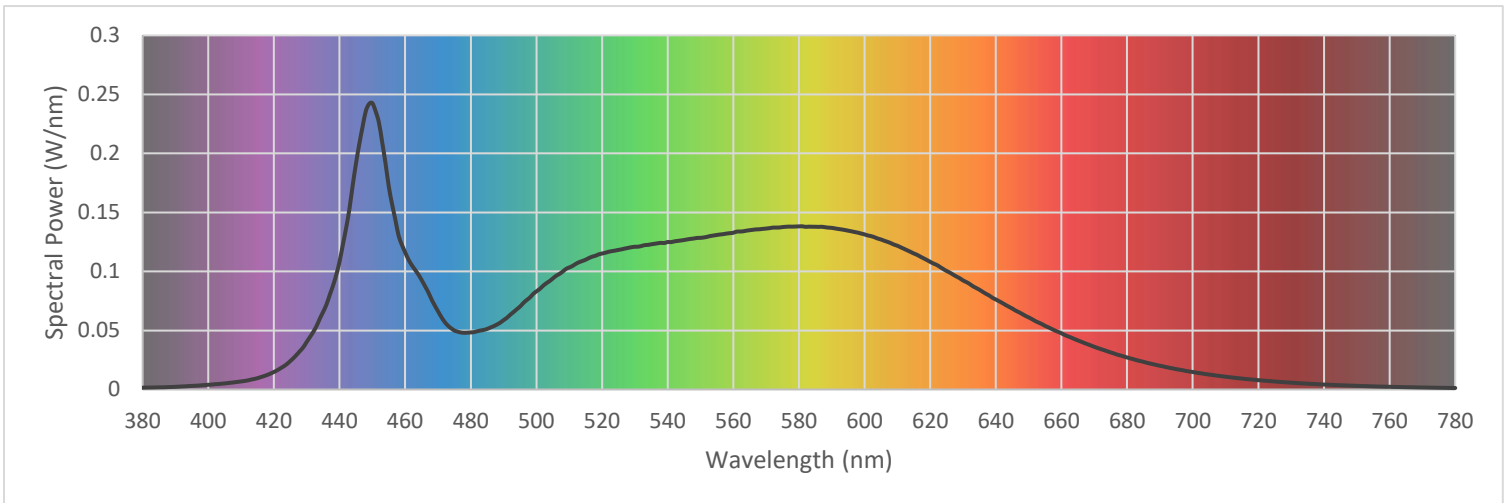
Voltage	120.0 Vac
Current	0.4332 A
Power	51.22 W
Frequency	59.99 Hz
Power Factor	0.985
Current THD	10.9 %

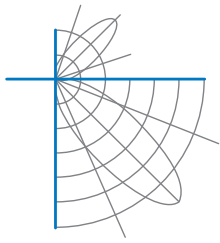


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Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

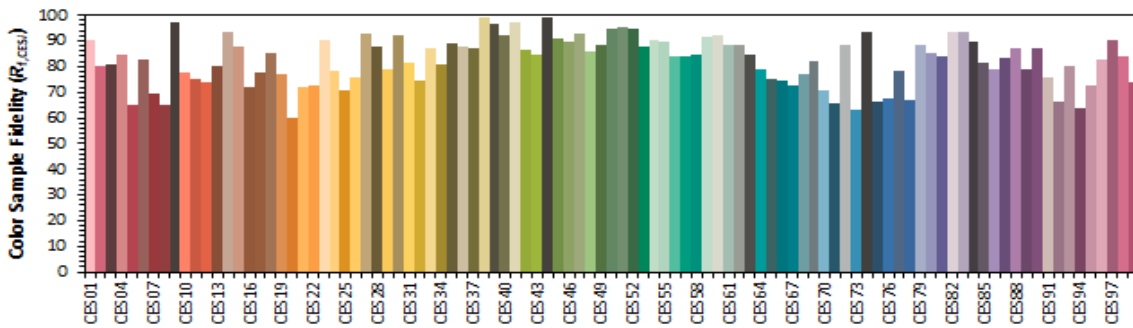
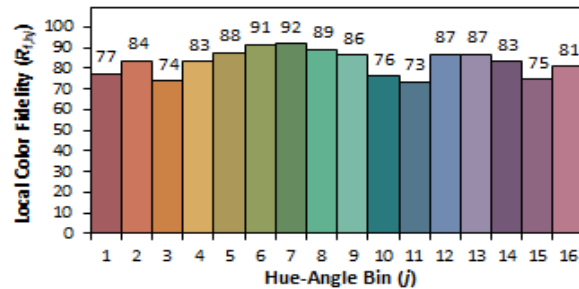
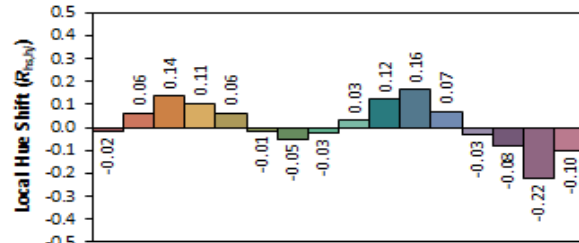
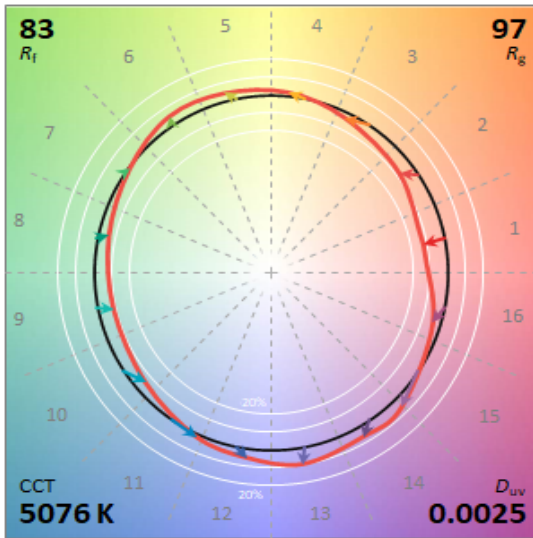
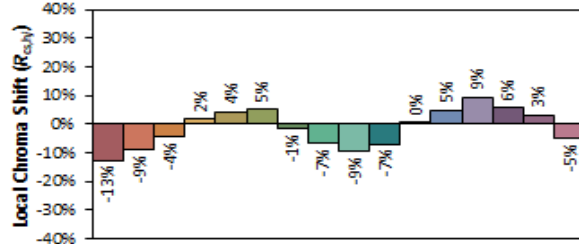
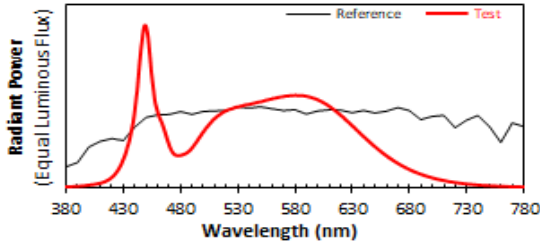
380	0.001537	480	0.048314	580	0.138160	680	0.027105
385	0.001794	485	0.051326	585	0.137852	685	0.023391
390	0.002229	490	0.058788	590	0.136912	690	0.020104
395	0.003021	495	0.070228	595	0.134524	695	0.017216
400	0.003973	500	0.083141	600	0.131365	700	0.014795
405	0.005102	505	0.094065	605	0.127082	705	0.012626
410	0.006793	510	0.103383	610	0.121773	710	0.010796
415	0.009569	515	0.109950	615	0.115216	715	0.009234
420	0.014846	520	0.115166	620	0.108125	720	0.007869
425	0.024116	525	0.118233	625	0.100372	725	0.006727
430	0.040356	530	0.120910	630	0.092376	730	0.005765
435	0.065714	535	0.123007	635	0.084483	735	0.004903
440	0.108367	540	0.124952	640	0.076237	740	0.004182
445	0.191353	545	0.126627	645	0.068574	745	0.003589
450	0.242532	550	0.128463	650	0.061060	750	0.003070
455	0.172076	555	0.130904	655	0.053882	755	0.002629
460	0.116117	560	0.132771	660	0.047588	760	0.002268
465	0.092768	565	0.134933	665	0.041550	765	0.001943
470	0.066284	570	0.136319	670	0.036161	770	0.001670
475	0.049929	575	0.137603	675	0.031370	775	0.001442
						780	0.001249



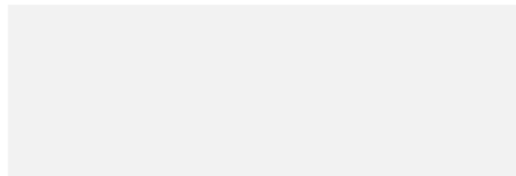


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IES TM-30 Details

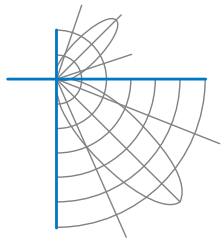


Notes:



x 0.3434
y 0.3553
u' 0.2089
v' 0.4862

CIE 13.3-1995 (CRI)	
R _a	81
R _s	1



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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: 25.3 °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.

Sphere Report Template V2-17