

## Report of Test

**LLIA001617-013**

Integrating Sphere Report

Catalog Number: LPT100W-850-EX39 Low Setting (63W)

Mogul-base retrofit lamp mounted VBU, formed plastic housing, formed aluminum heatsinks, clear plastic enclosures. 416 white LEDs, 12 CLW08E-100WC-16C2B-2835-A1 LED boards with 32 LEDs each and one CLW08E-100WD-16C2B-2835-A0 LED board with 32 LEDs

One internal LED driver



### Performance Summary

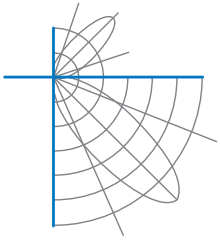
Voltage	120.0 Vac
Current	0.5088 A
Power	60.58 W
Frequency	59.99 Hz
Power Factor	0.992
Current THD	4.6 %
Total Luminous Flux	10124.8 lm
Efficacy	167.1 lm/W
Chromaticity (x,y)	(0.3429, 0.3538)
(u',v')	(0.2091, 0.4854)
Duv	0.0020
CCT	5091 K
CRI (Ra)	82
R9	3
TM-30: Rf	81
TM-30: Rg	96
TM-30: Rcs,h1	-13

Prepared For:

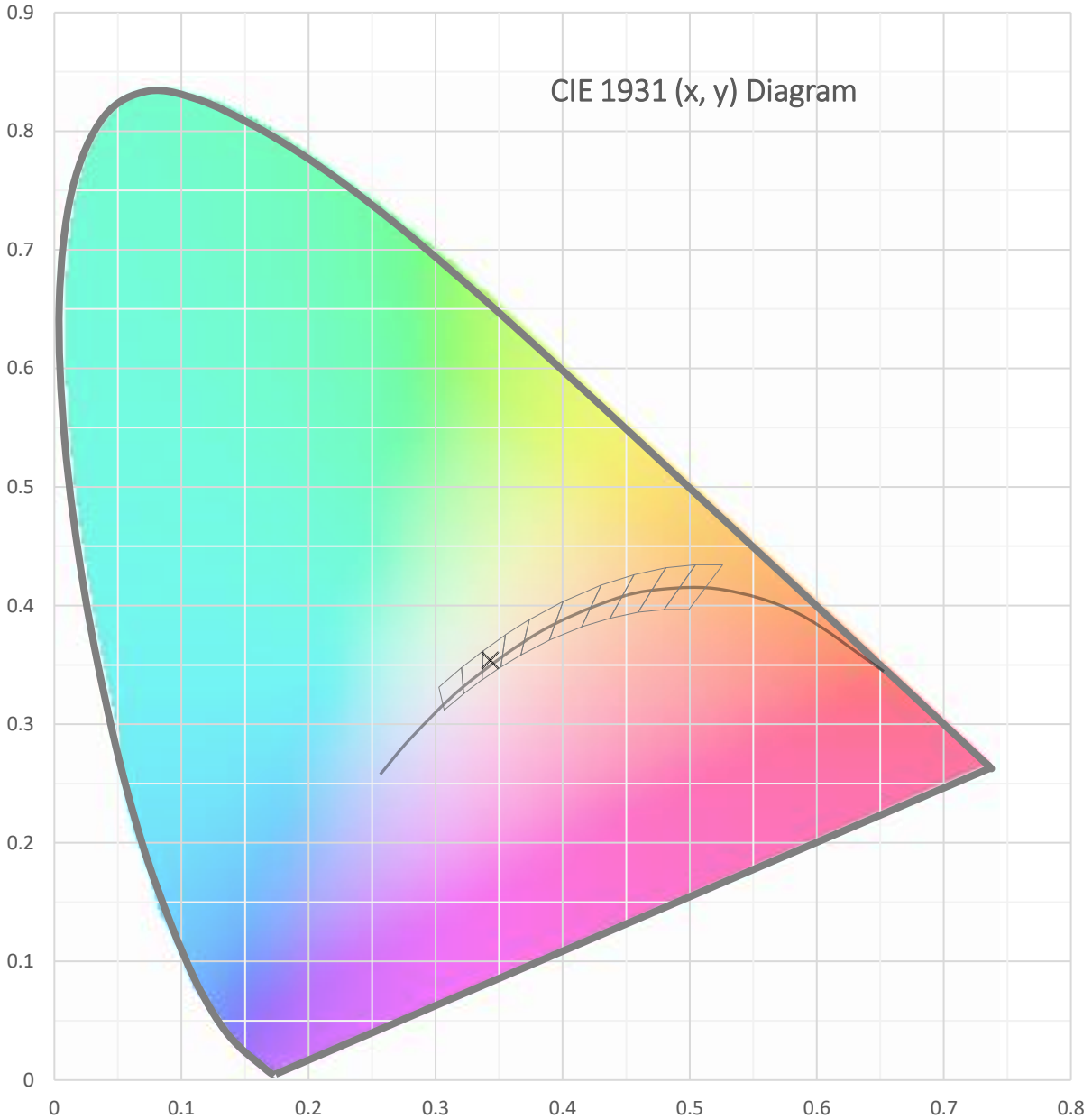
Topaz Lighting Corp  
925 Waverly Avenue  
Holtsville, NY 11742, USA

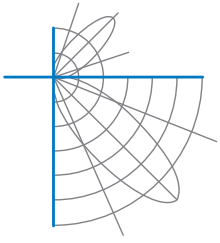
Test date: 12/28/2021  
Report date: 12/30/2021

Signed: \_\_\_\_\_

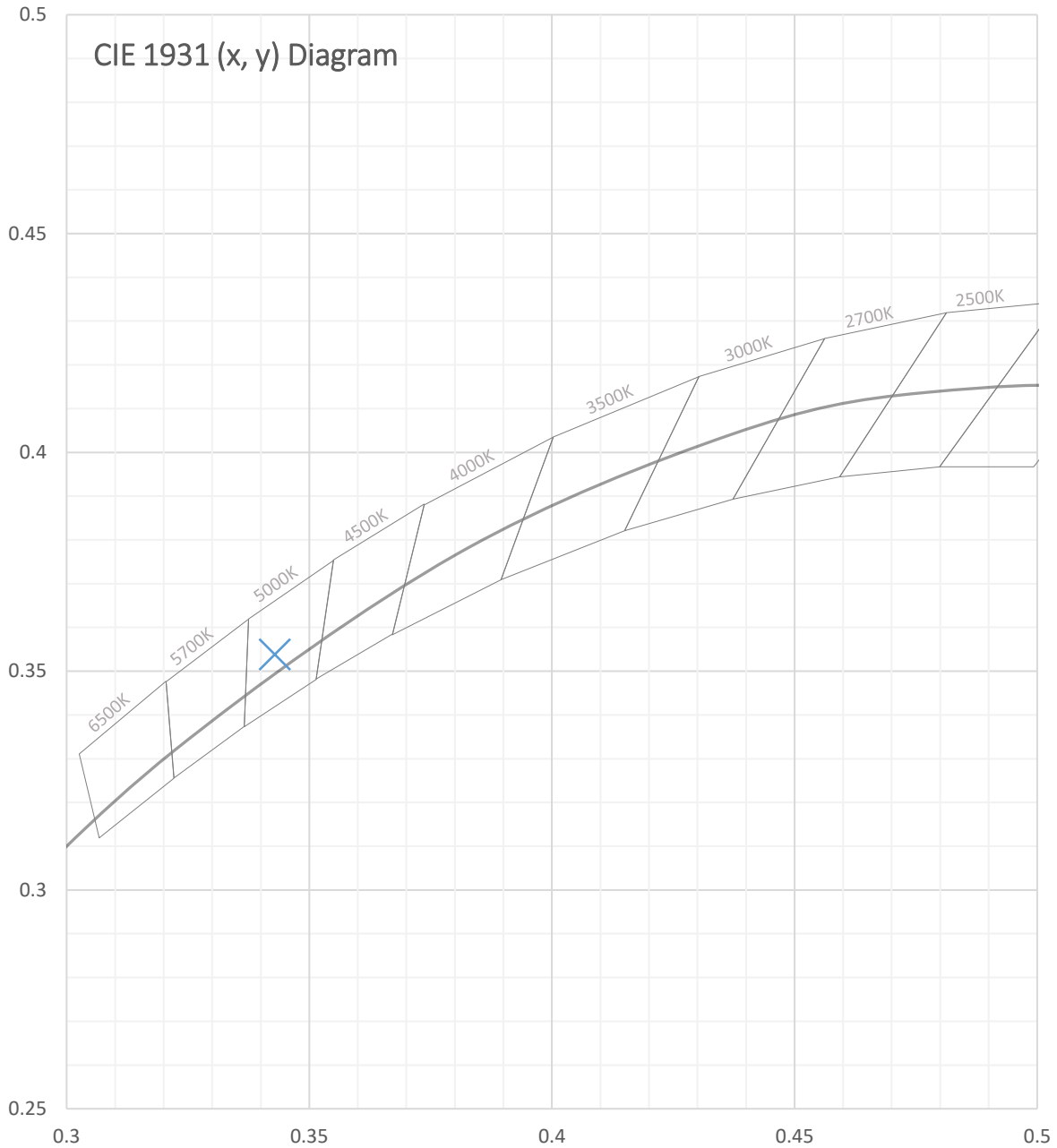


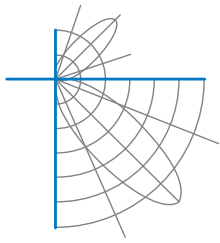
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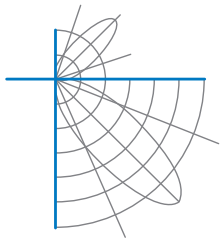


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Total Radiant Flux	31.61 W
Total Luminous Flux	10124.8 Lm
Chromaticity CIE 1931 (x, y)	(0.3429, 0.3538)
Chromaticity CIE 1976 (u', v')	(0.2091, 0.4854)
Correlated Color Temperature (CCT)	5091 K
Color Rendering Index (Ra)	82
R1	80
R2	86
R3	91
R4	82
R5	81
R6	81
R7	86
R8	66
R9	3
R10	68
R11	82
R12	61
R13	82
R14	95
TM-30: Rf	81
TM-30: Rg	96
TM-30: Rcs,h1	-13
Distance from Planckian Locus (Duv)	0.0020
Scotopic/Photopic Ratio ‡	1.947

**Electrical Data**

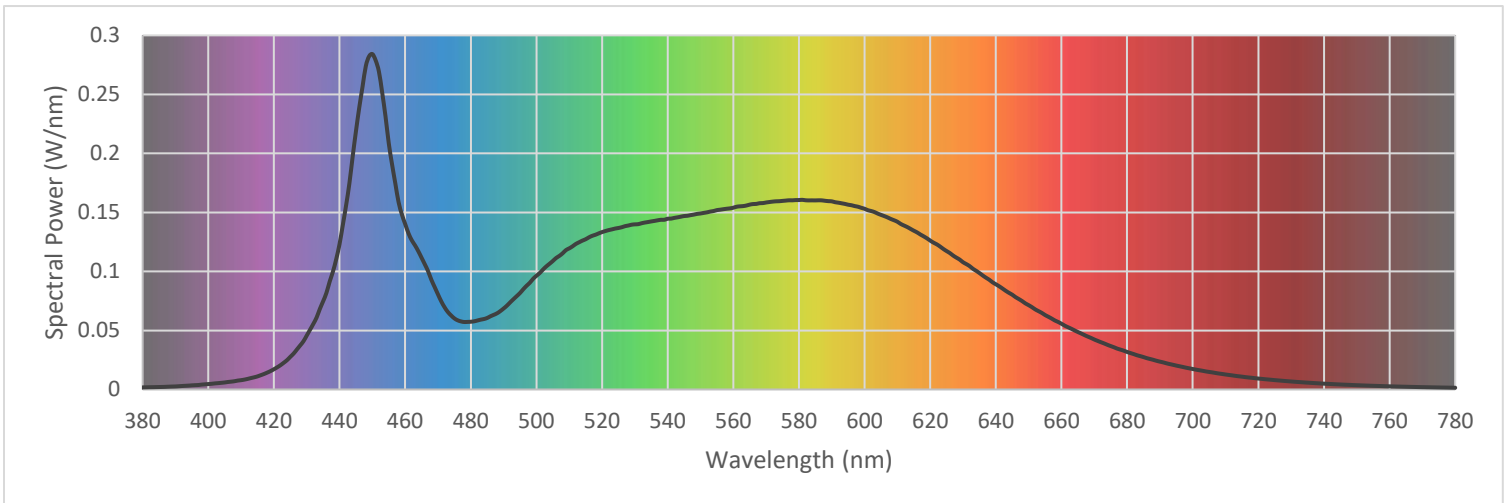
Voltage	120.0 Vac
Current	0.5088 A
Power	60.58 W
Frequency	59.99 Hz
Power Factor	0.992
Current THD	4.6 %

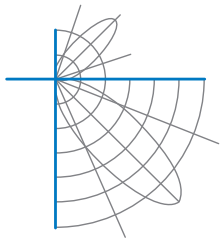


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Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

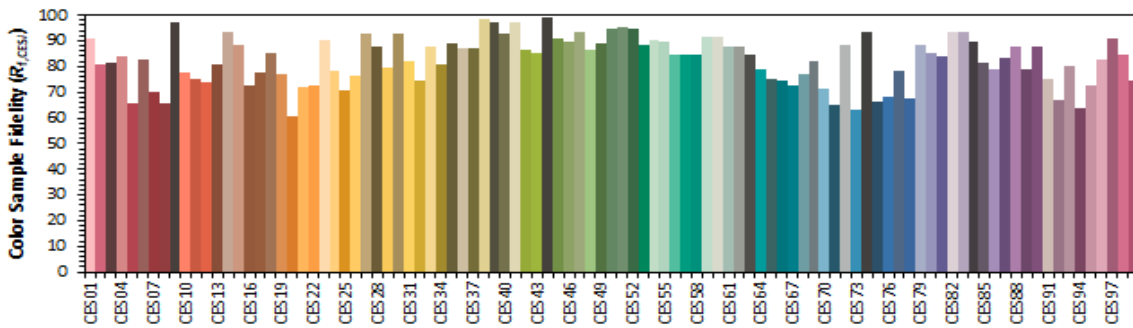
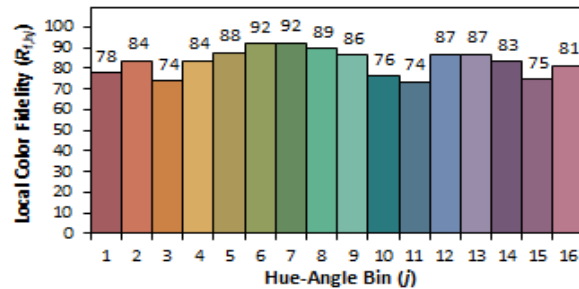
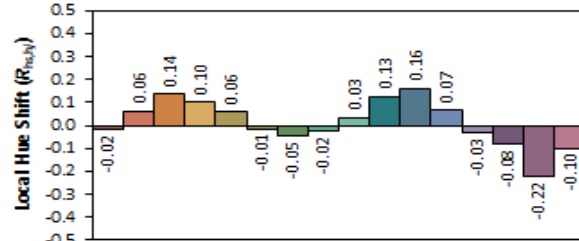
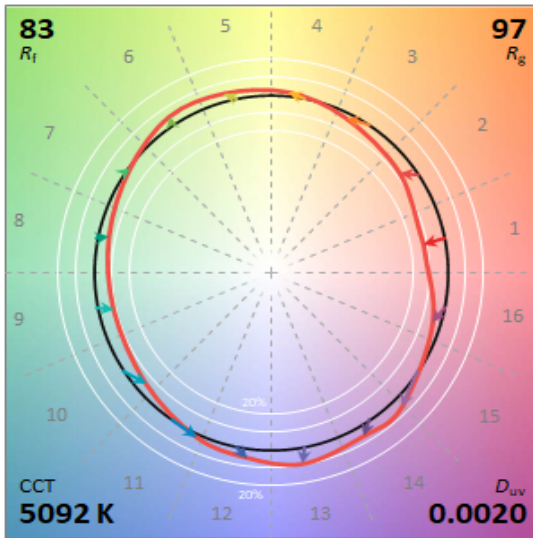
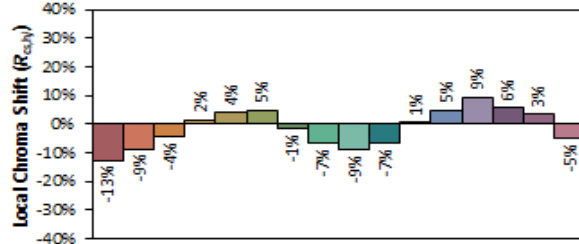
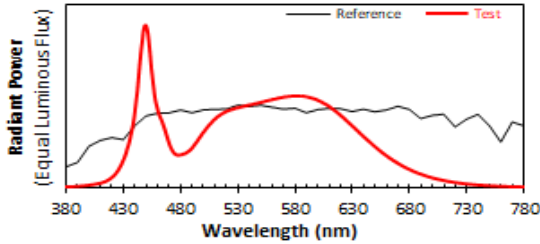
380	0.001783	480	0.057386	580	0.160471	680	0.031789
385	0.002072	485	0.060594	585	0.160169	685	0.027444
390	0.002563	490	0.068604	590	0.159390	690	0.023581
395	0.003484	495	0.081729	595	0.156539	695	0.020232
400	0.004585	500	0.096333	600	0.153090	700	0.017353
405	0.005939	505	0.108873	605	0.147924	705	0.014857
410	0.007886	510	0.119564	610	0.142089	710	0.012684
415	0.011095	515	0.127272	615	0.134510	715	0.010853
420	0.017140	520	0.133345	620	0.126150	720	0.009252
425	0.027669	525	0.136824	625	0.117240	725	0.007910
430	0.045691	530	0.139895	630	0.107797	730	0.006772
435	0.074761	535	0.142369	635	0.098635	735	0.005770
440	0.123291	540	0.144670	640	0.089130	740	0.004920
445	0.218884	545	0.146945	645	0.080278	745	0.004226
450	0.284141	550	0.149095	650	0.071430	750	0.003615
455	0.208546	555	0.151944	655	0.063069	755	0.003101
460	0.140133	560	0.153976	660	0.055694	760	0.002668
465	0.111545	565	0.156599	665	0.048673	765	0.002289
470	0.080502	570	0.158401	670	0.042361	770	0.001969
475	0.060191	575	0.159763	675	0.036767	775	0.001699
						780	0.001468





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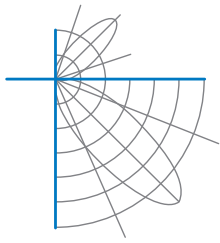
IES TM-30 Details



Notes:

x 0.3429  
y 0.3537  
u' 0.2091  
v' 0.4854

CIE 13.3-1995  
(CRI)  
R<sub>a</sub> 82  
R<sub>s</sub> 3



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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:** 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.