

## Report of Test

LLIA001617-002

Integrating Sphere Report

Catalog Number: LPT27W-850-E39-G4 Medium Setting (18W)

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

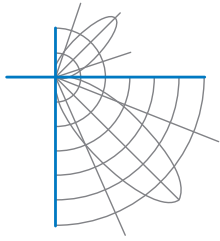
Voltage	120.0 Vac
Current	0.1620 A
Power	18.77 W
Frequency	59.99 Hz
Power Factor	0.966
Current THD	13.6 %
Total Luminous Flux	3036.0 lm
Efficacy	161.7 lm/W
Chromaticity (x,y)	(0.3421, 0.3535)
(u',v')	(0.2086, 0.4851)
Duv	0.0022
CCT	5123 K
CRI (Ra)	82
R9	3
TM-30: Rf	81
TM-30: Rg	96
TM-30: Rcs,h1	-13

Prepared For:

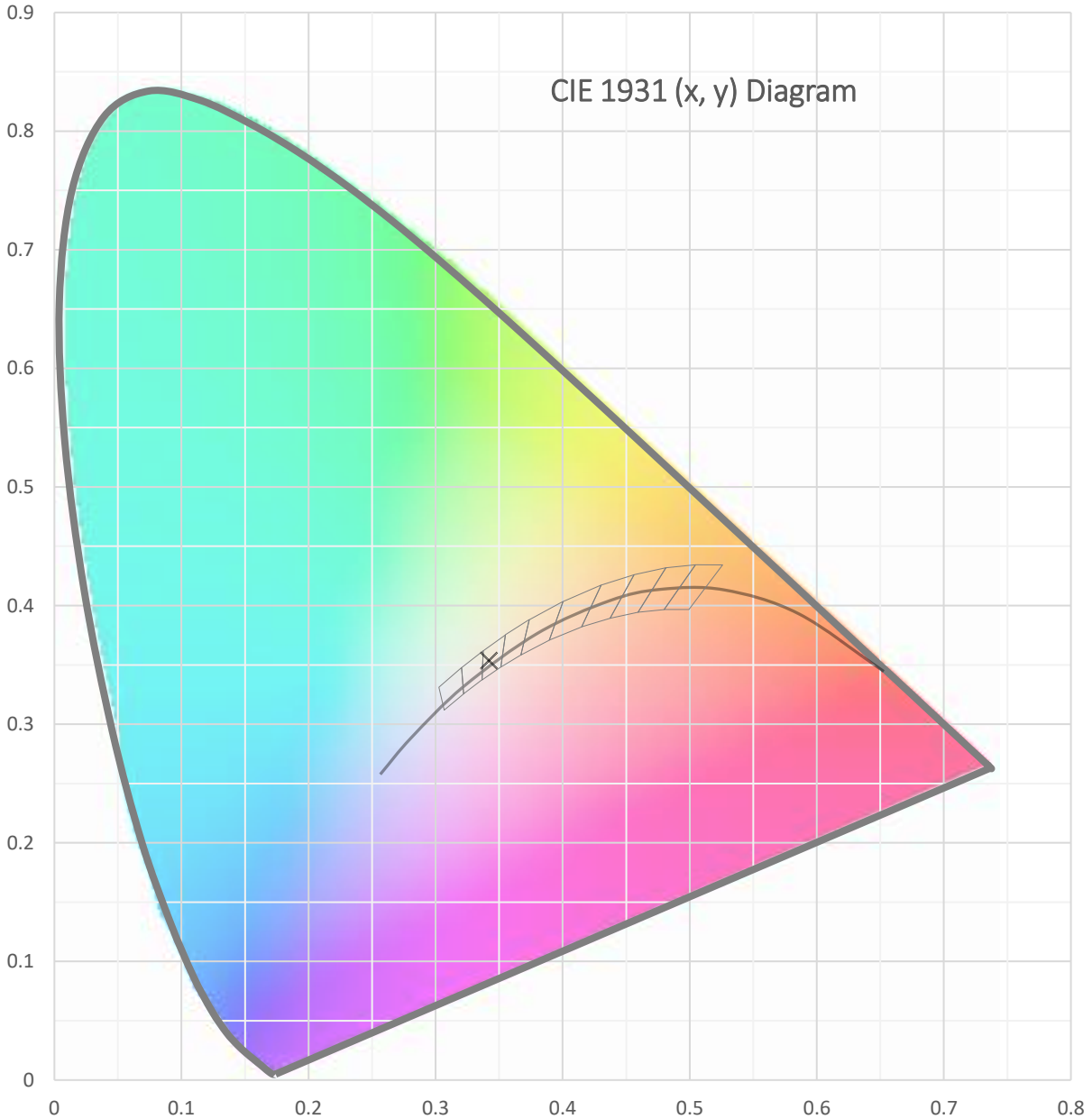
Topaz Lighting Corp  
925 Waverly Avenue  
Holtsville, NY 11742, USA

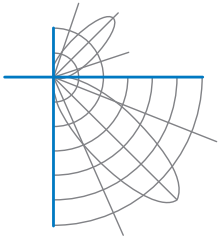
Test date: 12/27/2021  
Report date: 12/30/2021

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

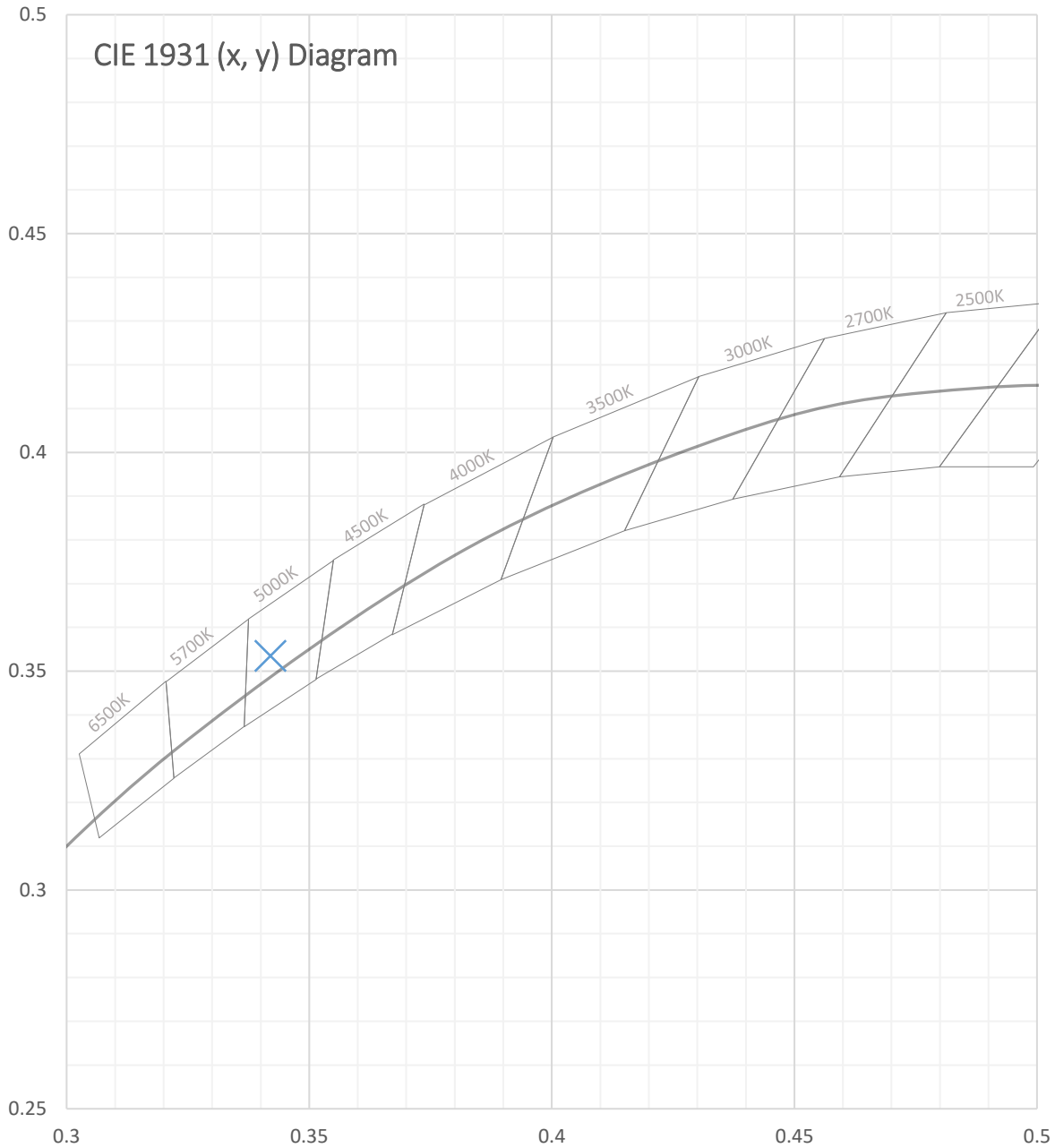


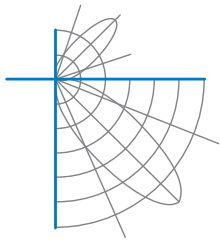
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Total Radiant Flux	9.487 W
Total Luminous Flux	3036.0 Lm
Chromaticity CIE 1931 (x, y)	(0.3421, 0.3535)
Chromaticity CIE 1976 (u', v')	(0.2086, 0.4851)
Correlated Color Temperature (CCT)	5123 K
Color Rendering Index (Ra)	82
R1	80
R2	86
R3	91
R4	82
R5	81
R6	81
R7	86
R8	66
R9	3
R10	68
R11	82
R12	61
R13	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 ‡	1.952

**Electrical Data**

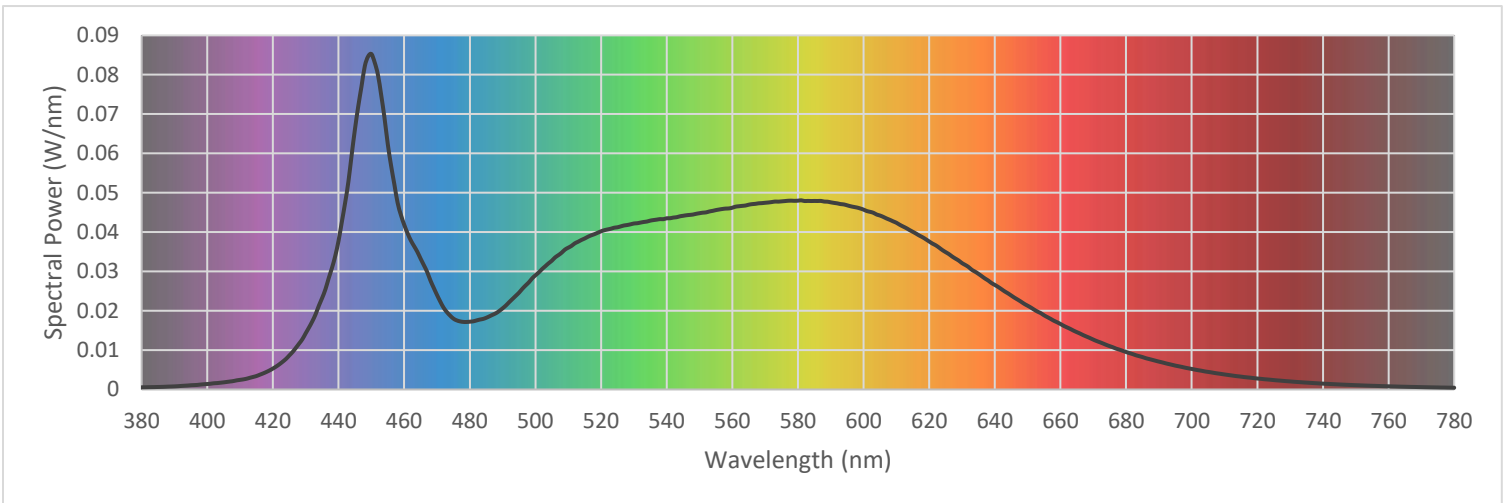
Voltage	120.0 Vac
Current	0.1620 A
Power	18.77 W
Frequency	59.99 Hz
Power Factor	0.966
Current THD	13.6 %

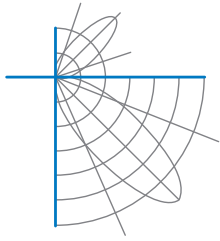


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Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

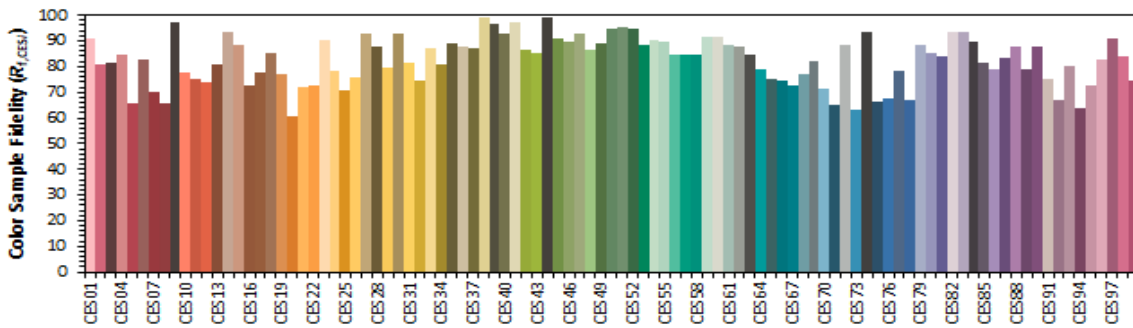
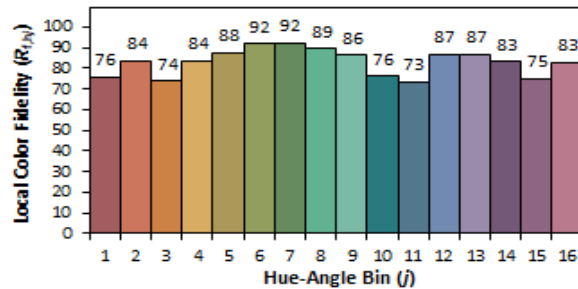
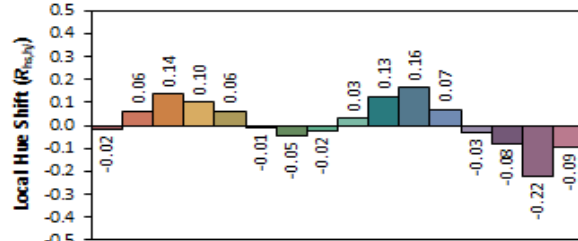
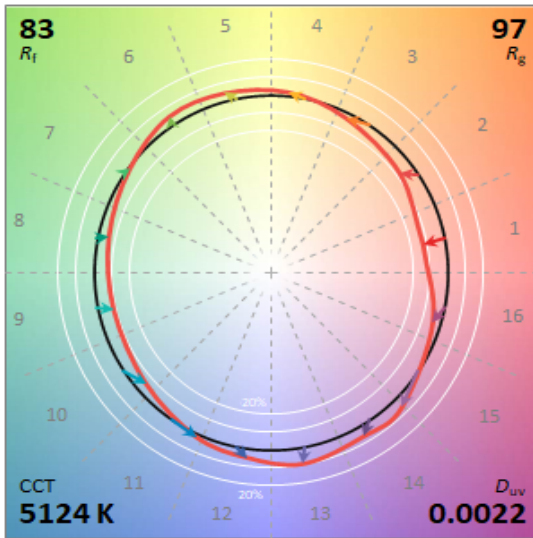
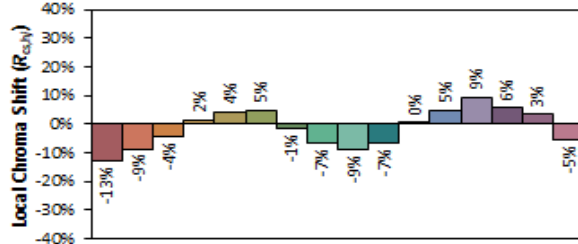
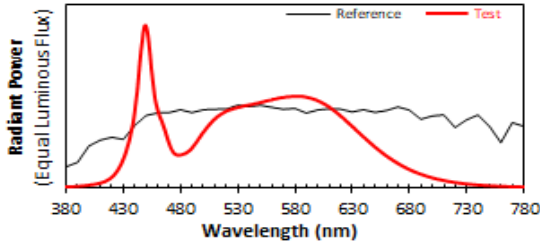
380	0.000553	480	0.017228	580	0.047984	680	0.009519
385	0.000633	485	0.018216	585	0.047913	685	0.008229
390	0.000786	490	0.020624	590	0.047565	690	0.007078
395	0.001075	495	0.024603	595	0.046802	695	0.006066
400	0.001390	500	0.029019	600	0.045705	700	0.005215
405	0.001808	505	0.032725	605	0.044210	705	0.004464
410	0.002441	510	0.036033	610	0.042370	710	0.003814
415	0.003420	515	0.038366	615	0.040076	715	0.003262
420	0.005315	520	0.040203	620	0.037605	720	0.002785
425	0.008657	525	0.041223	625	0.034908	725	0.002385
430	0.014303	530	0.042184	630	0.032116	730	0.002044
435	0.023252	535	0.042915	635	0.029387	735	0.001737
440	0.037819	540	0.043510	640	0.026566	740	0.001485
445	0.066181	545	0.044144	645	0.023876	745	0.001271
450	0.085271	550	0.044797	650	0.021285	750	0.001090
455	0.062385	555	0.045591	655	0.018848	755	0.000935
460	0.041866	560	0.046198	660	0.016642	760	0.000806
465	0.033250	565	0.046963	665	0.014566	765	0.000691
470	0.024030	570	0.047446	670	0.012678	770	0.000596
475	0.018013	575	0.047810	675	0.011014	775	0.000512
						780	0.000444





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IES TM-30 Details



Notes:

x 0.3420  
y 0.3534  
u' 0.2087  
v' 0.4851

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:** 24.7 °C

**Test Procedure:** Tested in accordance with the applicable sections of:  
LM-79-19, LM-78-20, LM-58-20, ANSI\_ANSI 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.