



## Report of Test

**LLIA000965-016**

Integrating Sphere Report

Catalog Number: KT-RKIT-2AG22-5000-850-VDIM

LED retrofit kit installed in a Lithonia 2GT8 lensed 2X2 reference troffer.

White enamel steel housing , clear prismatic plastic lens.

160 white LEDs, two KTAG-22L-700-30-850-RJ modules with 80 LEDs each.

One Keystone Technologies KTLD-36-UV-1200-VDIM-LA3 LED driver



### Performance Summary

Voltage	120.0 Vac
Current	0.3239 A
Power	38.66 W
Frequency	59.97 Hz
Power Factor	0.995
Current THD	5.8 %

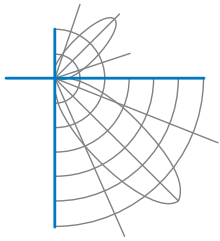
Total Luminous Flux	4796.2 lm
Efficacy	124.1 lm/W
Chromaticity (x,y)	(0.3403, 0.3506)
(u',v')	(0.2086, 0.4835)
Duv	0.0015
CCT	5185 K
CRI (Ra)	84
R9	7
TM-30: Rf	82
TM-30: Rg	95

Prepared For:

Keystone Technologies  
1390 Welsh Road  
North Wales, PA 19454, USA

Test date: 03/26/2018  
Report date: 04/03/2018

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



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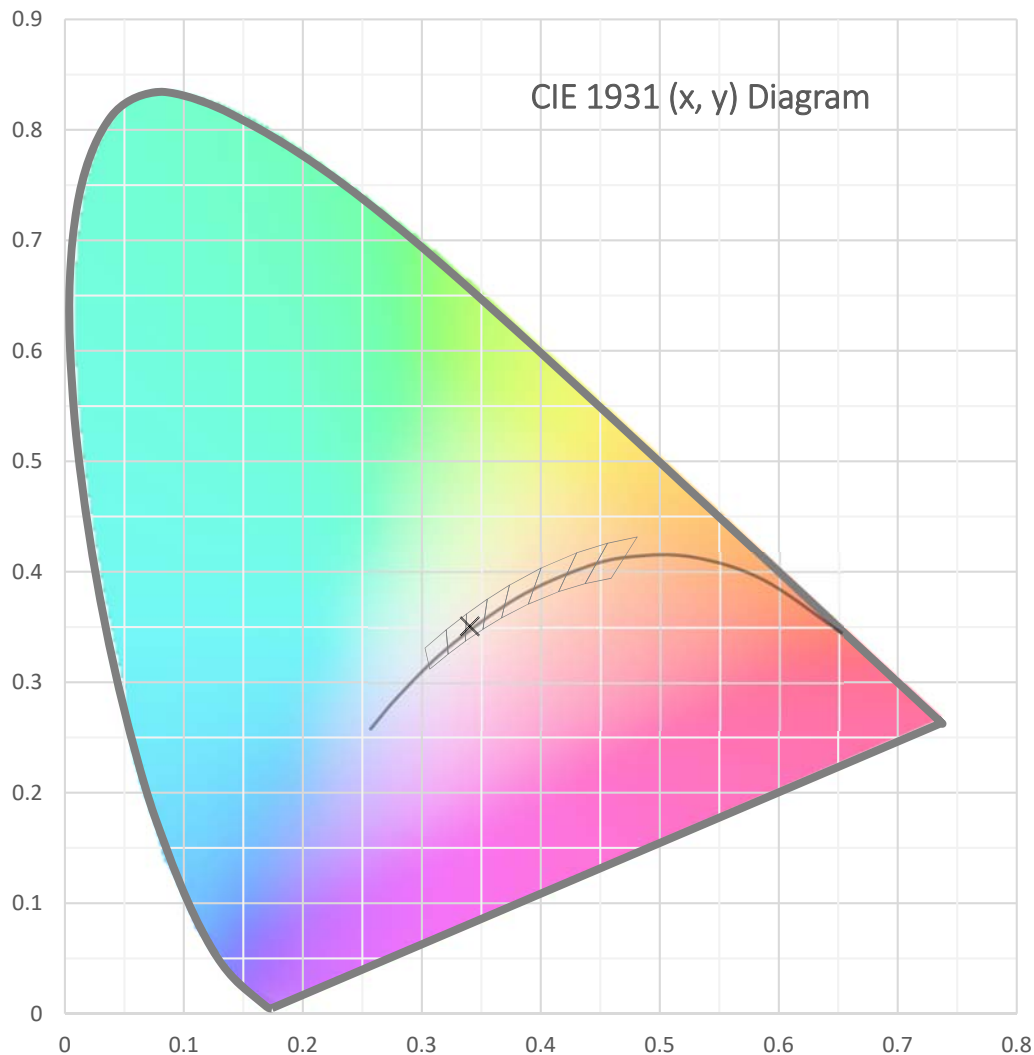
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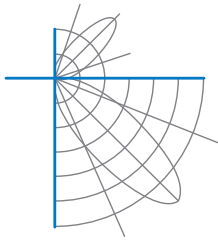
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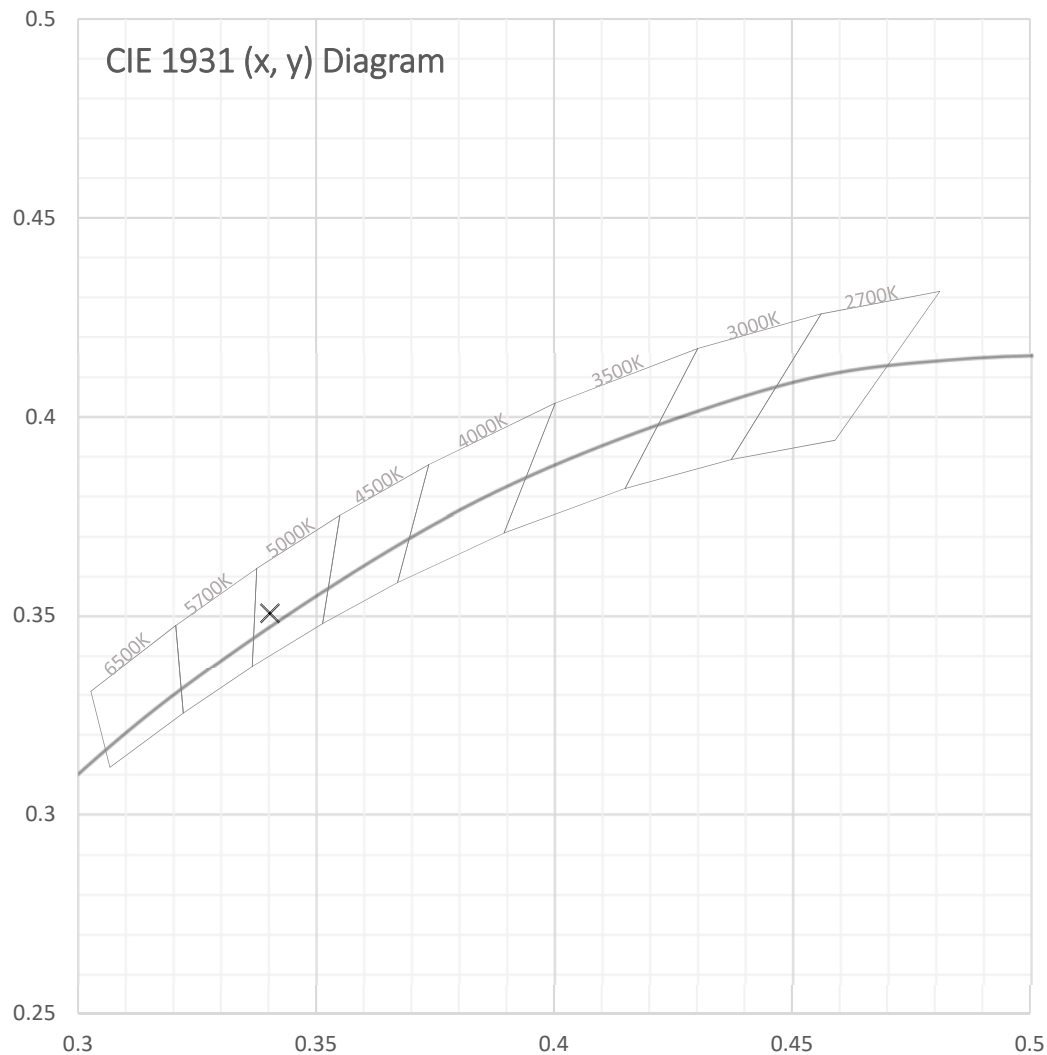
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**Spectral Data**

Total Radiant Flux	15.13 W
Total Luminous Flux	4796.2 Lm
Chromaticity CIE 1931 (x, y)	(0.3403, 0.3506)
Chromaticity CIE 1976 (u', v')	(0.2086, 0.4835)
Correlated Color Temperature (CCT)	5185 K
Color Rendering Index (Ra)	84
R1	82
R2	90
R3	94
R4	83
R5	83
R6	85
R7	87
R8	67
R9	7
R10	75
R11	82
R12	65
R13	84
R14	97
TM-30: Rf	82
TM-30: Rg	95
Distance from Planckian Locus (Duv)	0.0015
Scotopic/Photopic Ratio *	2.014

**Electrical Data**

Voltage	120.0 Vac
Current	0.3239 A
Power	38.66 W
Frequency	59.97 Hz
Power Factor	0.995
Current THD	5.8 %



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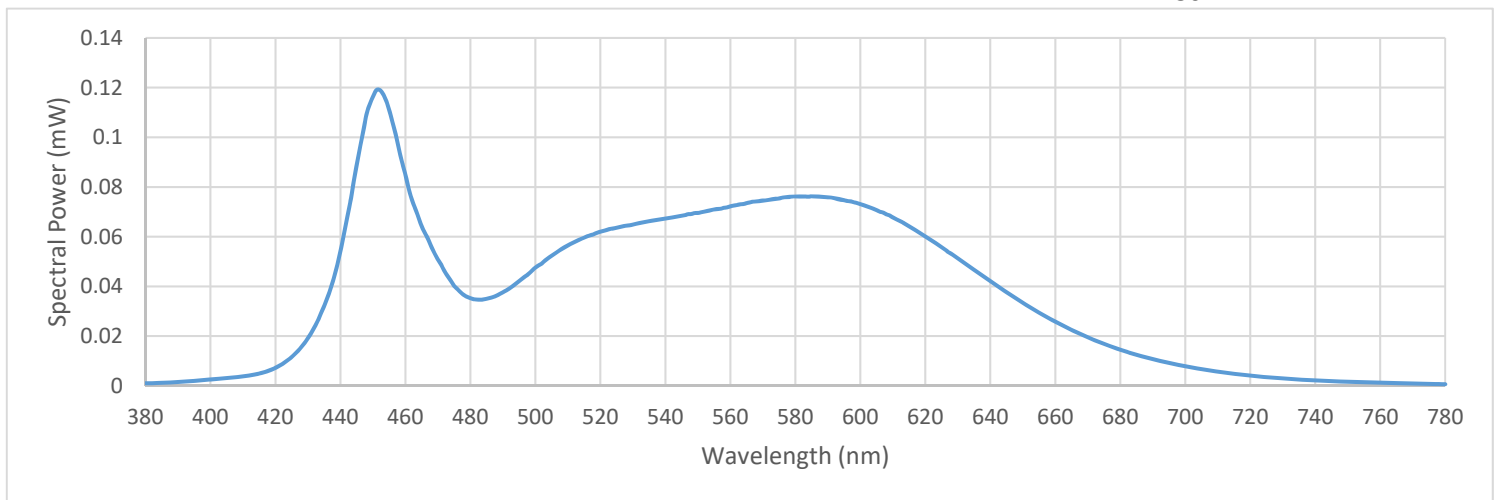
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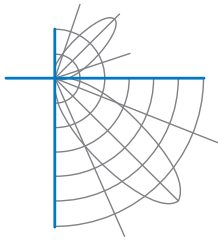
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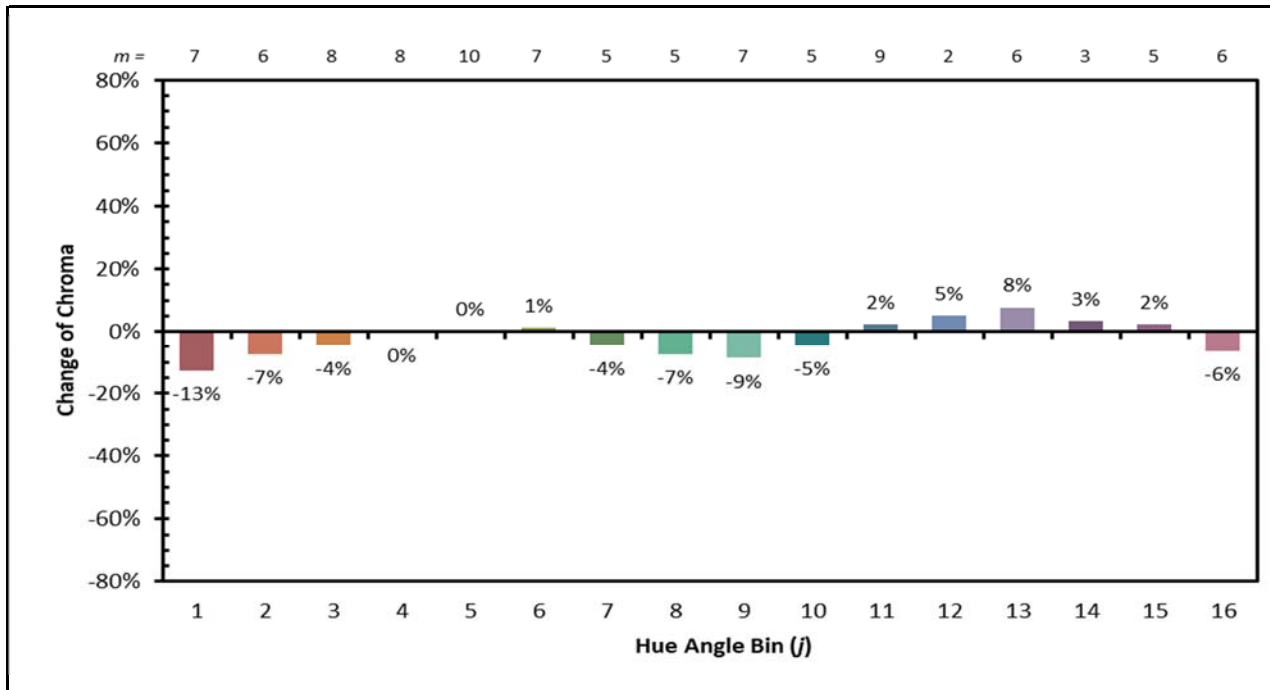
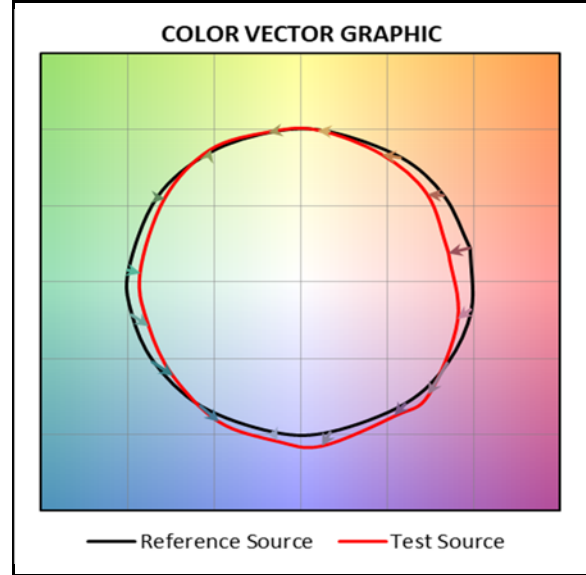
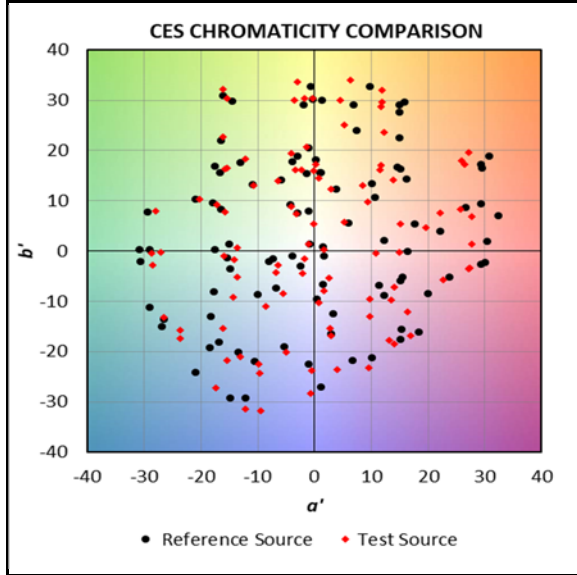
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.001004	480	0.035256	580	0.076229	680	0.014521
385	0.001147	485	0.035053	585	0.076268	685	0.012505
390	0.001511	490	0.037647	590	0.075880	690	0.010696
395	0.001977	495	0.042093	595	0.074700	695	0.009120
400	0.002523	500	0.047555	600	0.073102	700	0.007824
405	0.003122	505	0.052286	605	0.070691	705	0.006651
410	0.003784	510	0.056470	610	0.067702	710	0.005678
415	0.004920	515	0.059592	615	0.064229	715	0.004849
420	0.007208	520	0.062006	620	0.060167	720	0.004132
425	0.011516	525	0.063649	625	0.055781	725	0.003520
430	0.019308	530	0.064876	630	0.051223	730	0.003008
435	0.032096	535	0.066168	635	0.046739	735	0.002560
440	0.053866	540	0.067245	640	0.042078	740	0.002175
445	0.089081	545	0.068412	645	0.037676	745	0.001866
450	0.116208	550	0.069555	650	0.033438	750	0.001594
455	0.111080	555	0.070990	655	0.029406	755	0.001365
460	0.084999	560	0.072226	660	0.025847	760	0.001179
465	0.064143	565	0.073524	665	0.022449	765	0.001017
470	0.050862	570	0.074549	670	0.019460	770	0.000866
475	0.040197	575	0.075378	675	0.016888	775	0.000751
						780	0.000646





IES TM-30 Summary





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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:	25.4 °C
Test Procedure:	Tested in accordance with the applicable sections of: LM-79-08, LM-78-07, LM-58-13, ANSI_ANSLG C78.377-2015, ANSI C82-77-10:2014, TM-30-15
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.