



## Report of Test

**LLIA000965-006**

Integrating Sphere Report

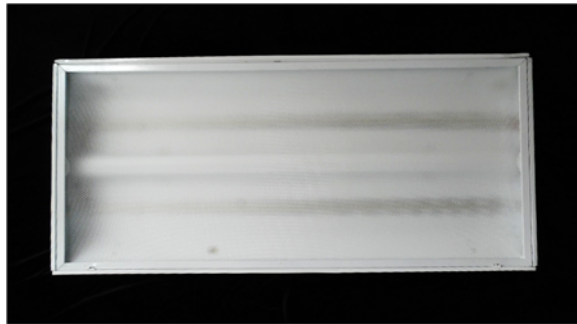
Catalog Number: KT-RKIT-2AG44-5000-850-VDIM

LED retrofit kit installed in a Lithonia 2GT8 lensed 2X4 reference troffer.

White enamel steel housing , clear prismatic plastic lens.

320 white LEDs, two KTAG-44L-1400-30-850-RJ modules with 160 LEDs each.

One Keystone Technologies KTLD-36-UV-1100-VDIM-LA3 LED driver



### Performance Summary

Voltage	120.0 Vac
Current	0.2880 A
Power	34.36 W
Frequency	59.97 Hz
Power Factor	0.994
Current THD	5.5 %

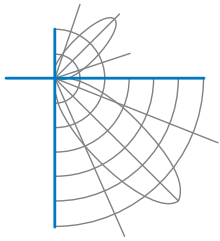
Total Luminous Flux	4941.0 lm
Efficacy	143.8 lm/W
Chromaticity (x,y)	(0.3409, 0.3509)
(u',v')	(0.2088, 0.4837)
Duv	0.0014
CCT	5163 K
CRI (Ra)	84
R9	10
TM-30: Rf	82
TM-30: Rg	94

Prepared For:

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

Test date: 03/27/2018  
Report date: 04/03/2018

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



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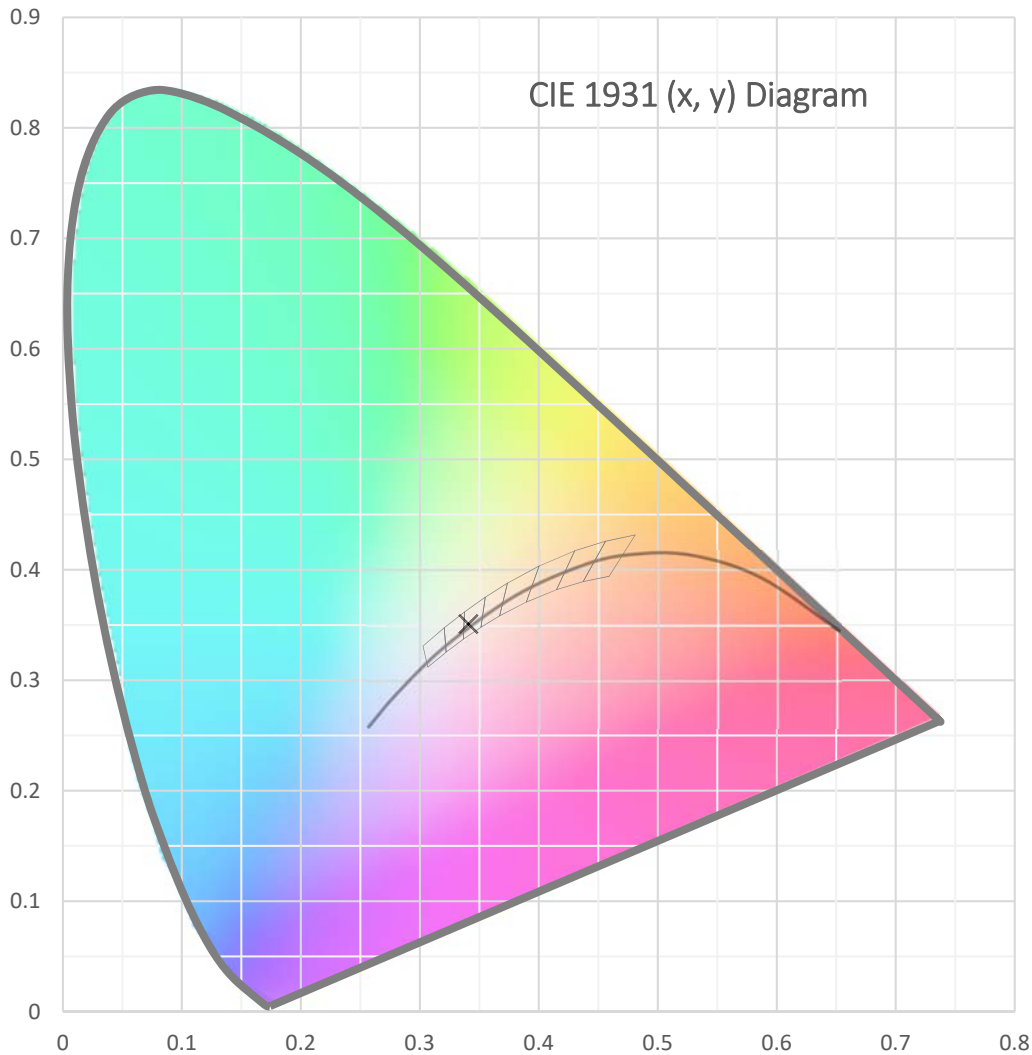
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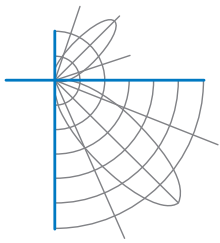
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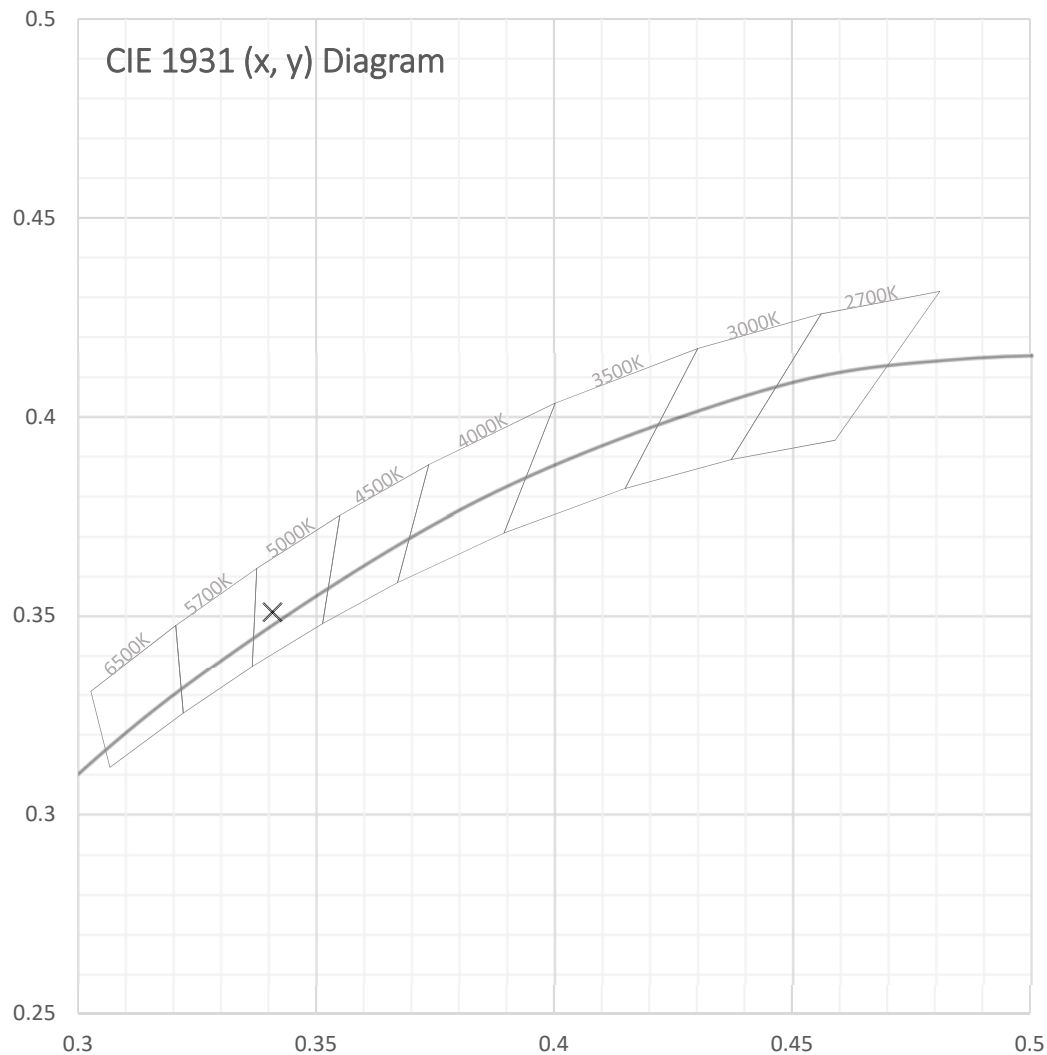
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**Spectral Data**

Total Radiant Flux	15.61 W
Total Luminous Flux	4941.0 Lm
Chromaticity CIE 1931 (x, y)	(0.3409, 0.3509)
Chromaticity CIE 1976 (u', v')	(0.2088, 0.4837)
Correlated Color Temperature (CCT)	5163 K
Color Rendering Index (Ra)	84
R1	83
R2	91
R3	95
R4	83
R5	84
R6	86
R7	86
R8	67
R9	10
R10	78
R11	82
R12	64
R13	86
R14	98
TM-30: Rf	82
TM-30: Rg	94
Distance from Planckian Locus (Duv)	0.0014
Scotopic/Photopic Ratio *	2.032

**Electrical Data**

Voltage	120.0 Vac
Current	0.2880 A
Power	34.36 W
Frequency	59.97 Hz
Power Factor	0.994
Current THD	5.5 %



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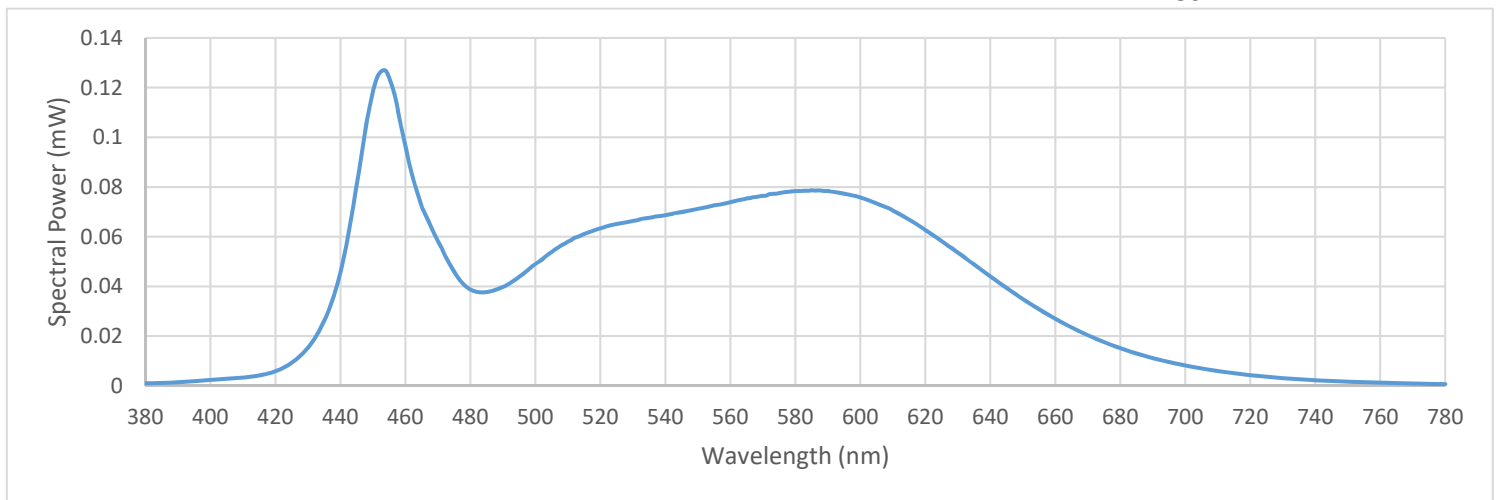
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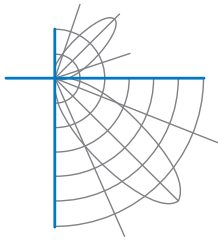
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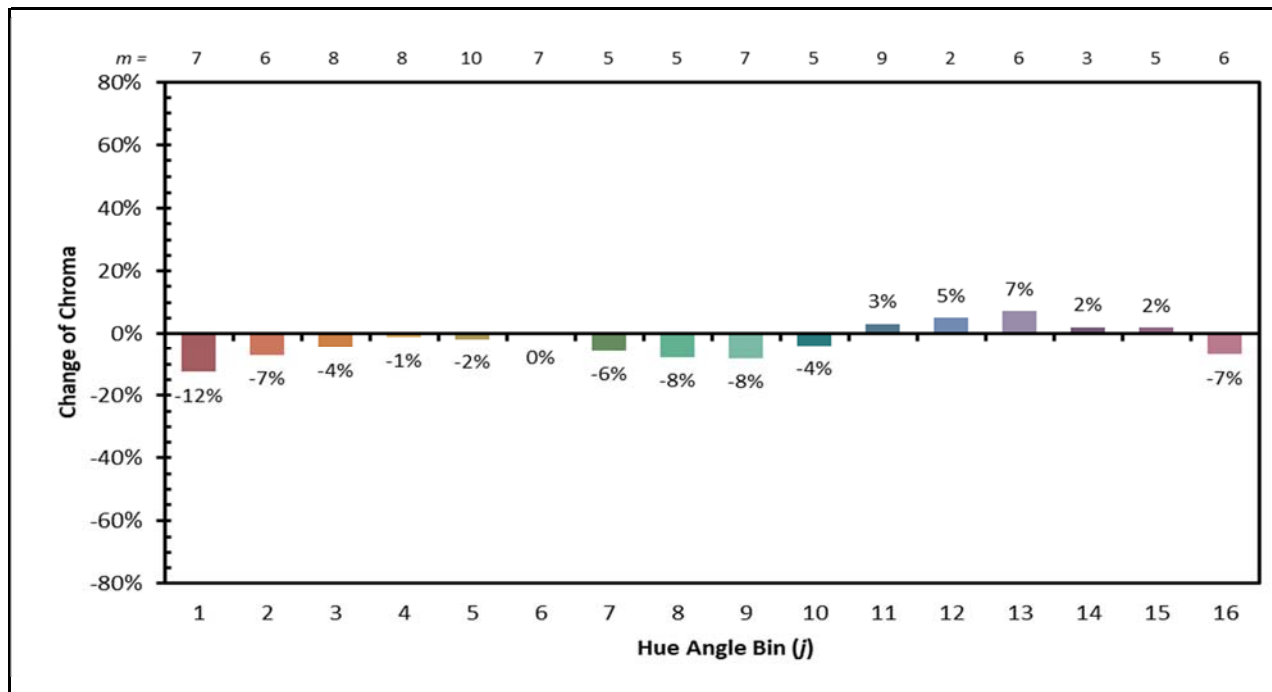
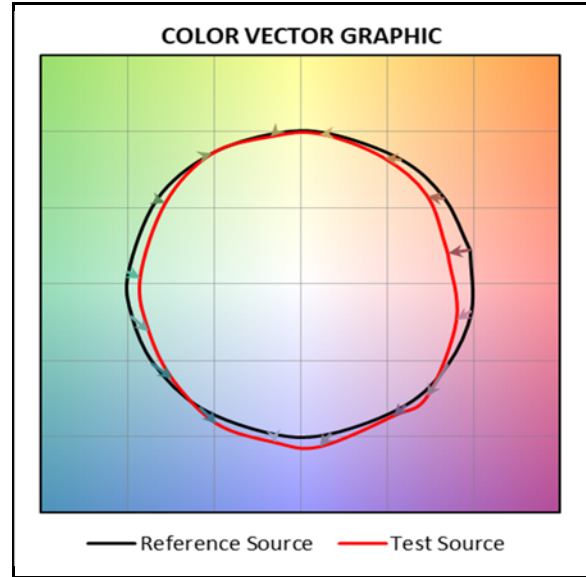
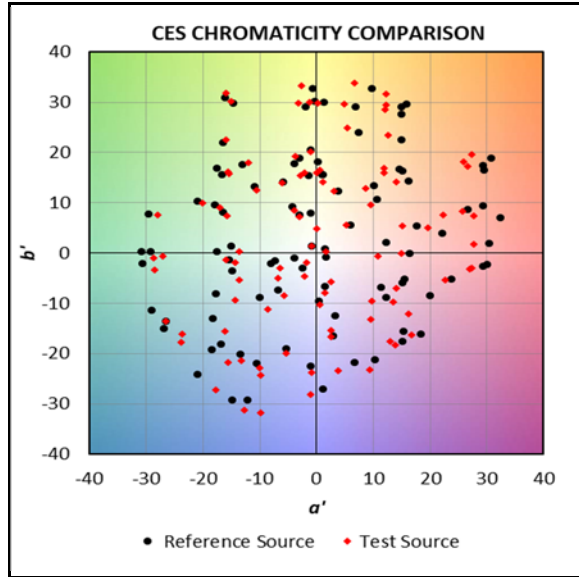
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.001005	480	0.038830	580	0.078343	680	0.015118
385	0.001116	485	0.037796	585	0.078668	685	0.013011
390	0.001420	490	0.039782	590	0.078417	690	0.011159
395	0.001830	495	0.043798	595	0.077364	695	0.009484
400	0.002346	500	0.049054	600	0.075751	700	0.008136
405	0.002828	505	0.053821	605	0.073414	705	0.006917
410	0.003322	510	0.057982	610	0.070526	710	0.005876
415	0.004126	515	0.061099	615	0.066891	715	0.005034
420	0.005864	520	0.063451	620	0.062657	720	0.004288
425	0.009188	525	0.065127	625	0.058280	725	0.003646
430	0.015393	530	0.066357	630	0.053581	730	0.003111
435	0.026171	535	0.067625	635	0.048890	735	0.002643
440	0.045563	540	0.068711	640	0.044050	740	0.002246
445	0.080988	545	0.069881	645	0.039452	745	0.001925
450	0.118215	550	0.071212	650	0.034956	750	0.001644
455	0.124055	555	0.072628	655	0.030768	755	0.001410
460	0.096654	560	0.073842	660	0.027033	760	0.001214
465	0.072101	565	0.075401	665	0.023459	765	0.001043
470	0.058245	570	0.076429	670	0.020294	770	0.000893
475	0.045857	575	0.077469	675	0.017587	775	0.000773
						780	0.000669





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:** 25.3 °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.