



Report of Test

LLIA000917-001

Integrating Sphere Report

Catalog Number: KT-RKIT46-8S-850-VDIM

Retrofit kit only, formed white enamel steel housing and reflectors, frosted linear ribbed plastic enclosures.

160 white LEDs, two boards with 80 LEDs each.

One Keystone Technologies KTLD-50-UV-1400-VDIM-LA2 LED driver



Performance Summary

Voltage	120.0 Vac
Current	0.3746 A
Power	44.70 W
Frequency	59.97 Hz
Power Factor	0.994
Current THD	8.4 %

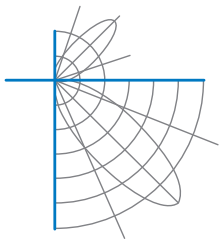
Total Luminous Flux	6098.1 lm
Efficacy	136.4 lm/W
Chromaticity (x,y)	(0.3448, 0.3574)
(u',v')	(0.2090, 0.4874)
Duv	0.0030
CCT	5029 K
CRI (Ra)	84
R9	13
TM-30: Rf	82
TM-30: Rg	94

Prepared For:

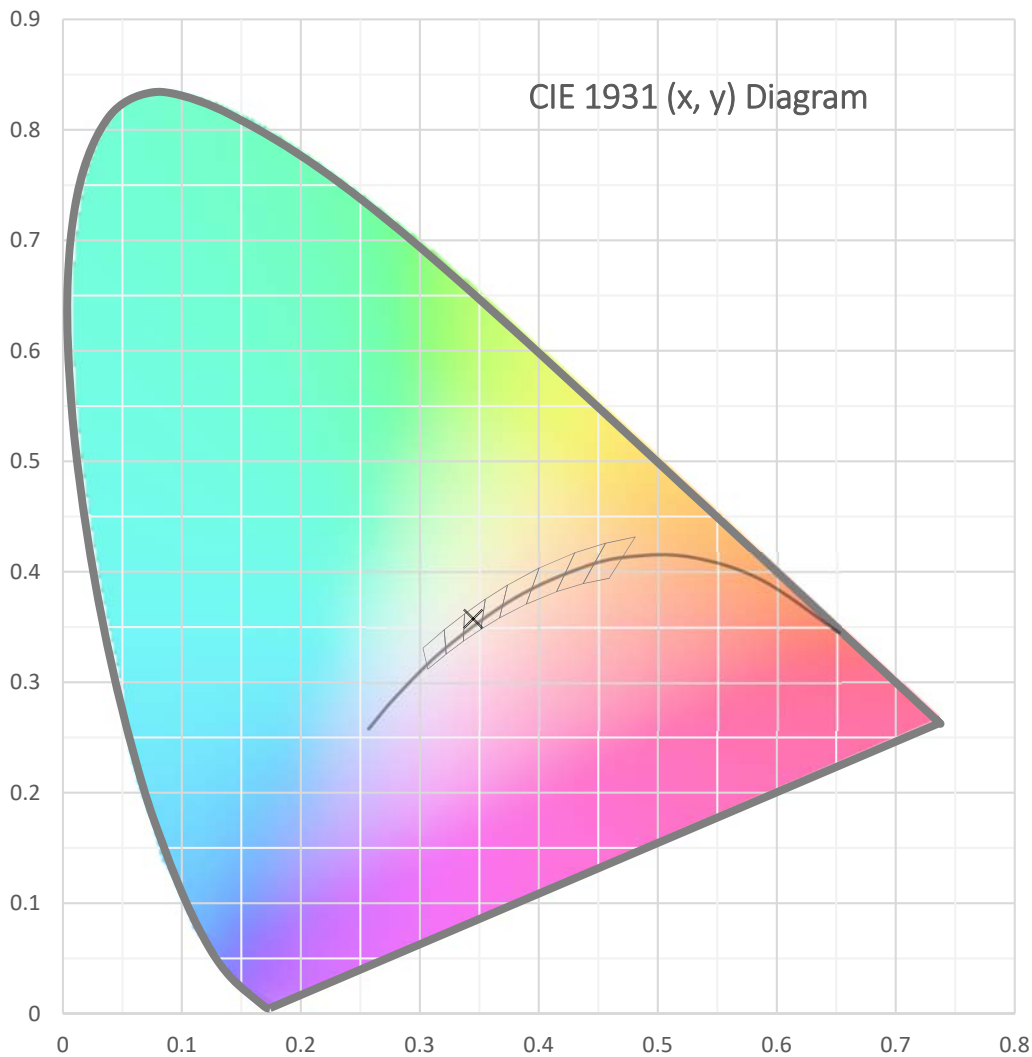
Keystone Technologies
1390 Welsh Road
North Wales, PA 19454, USA

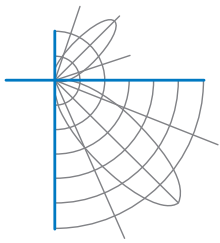
Test date: 12/20/2017
Report date: 12/20/2017

Signed: _____

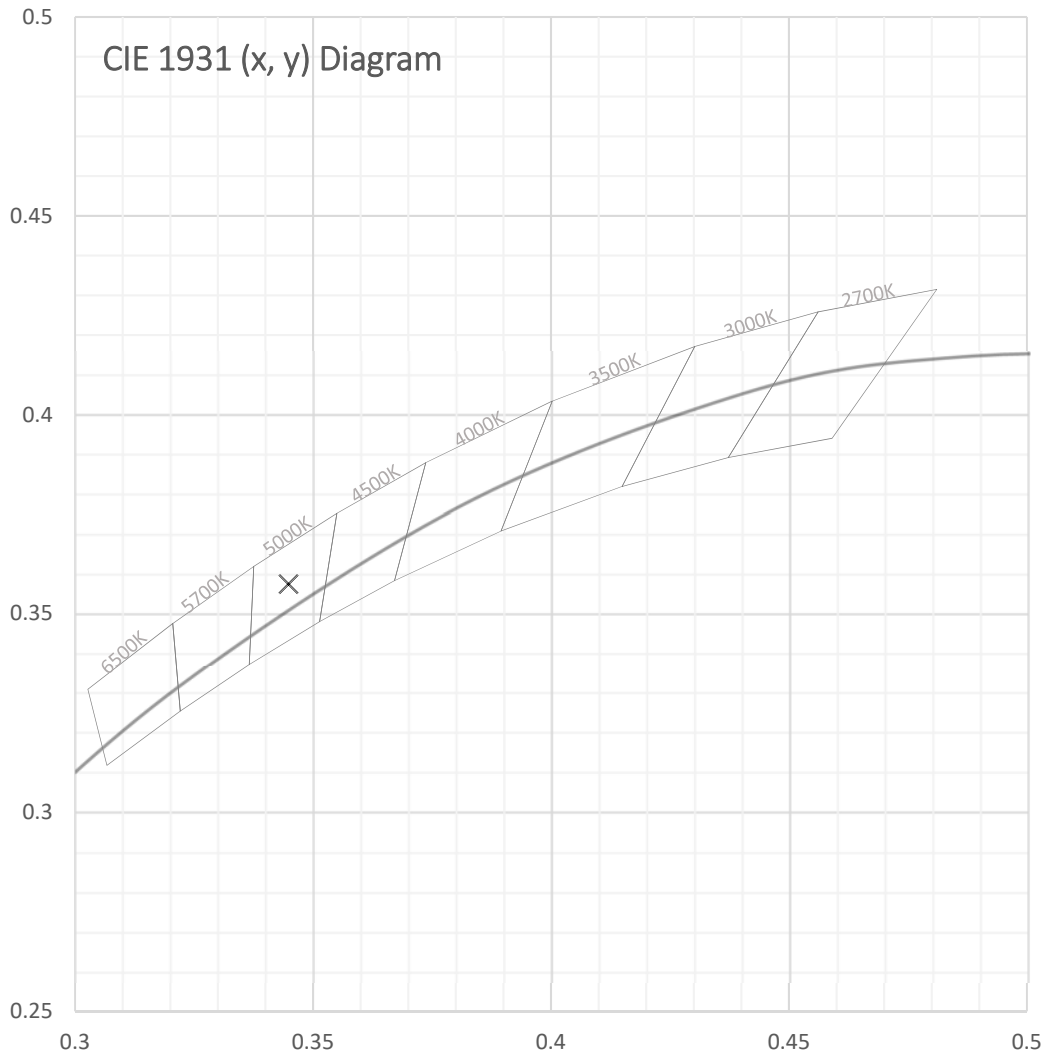


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Spectral Data

Total Radiant Flux	19.20 W
Total Luminous Flux	6098.1 Lm
Chromaticity CIE 1931 (x, y)	(0.3448, 0.3574)
Chromaticity CIE 1976 (u', v')	(0.2090, 0.4874)
Correlated Color Temperature (CCT)	5029 K
Color Rendering Index (Ra)	84
R1	82
R2	90
R3	94
R4	83
R5	83
R6	85
R7	88
R8	69
R9	13
R10	74
R11	82
R12	61
R13	84
R14	97
TM-30: Rf	82
TM-30: Rg	94
Distance from Planckian Locus (Duv)	0.0030
Scotopic/Photopic Ratio *	1.979

Electrical Data

Voltage	120.0 Vac
Current	0.3746 A
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Power Factor	0.994
Current THD	8.4 %



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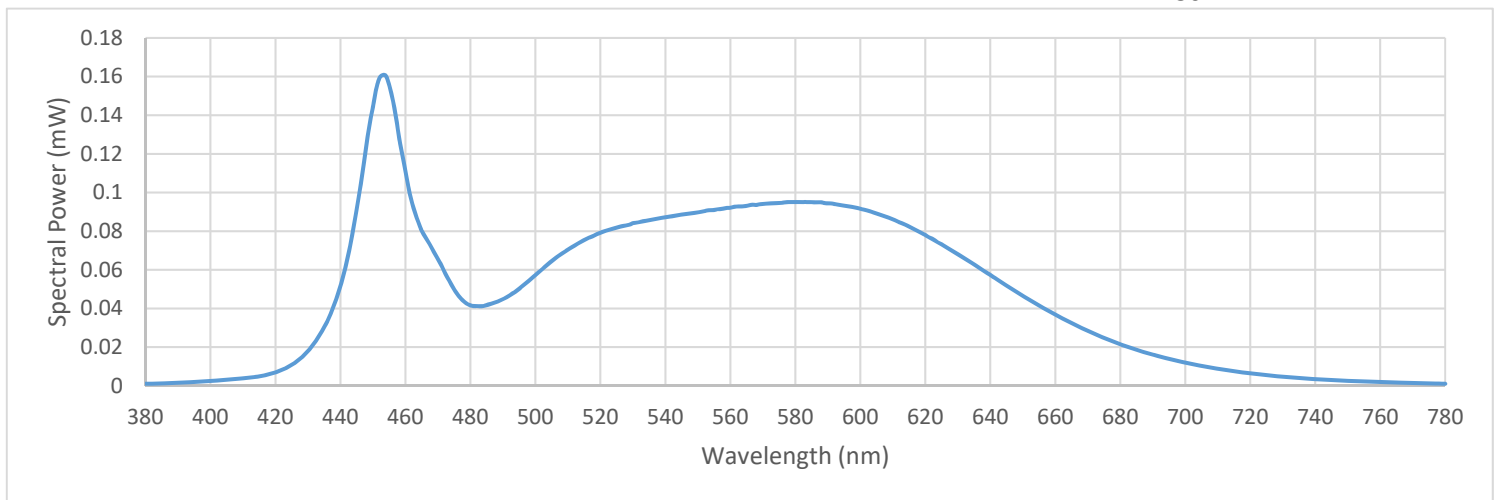
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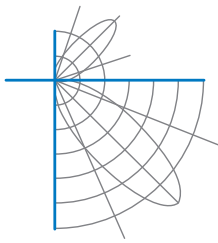
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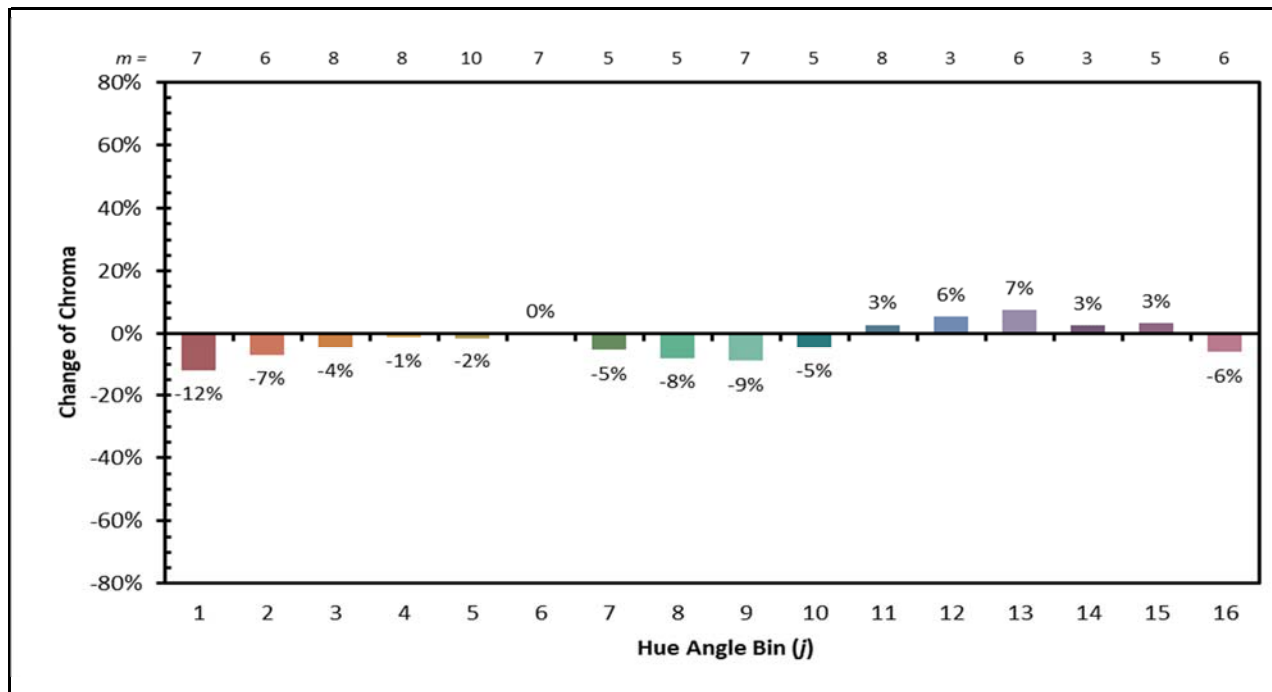
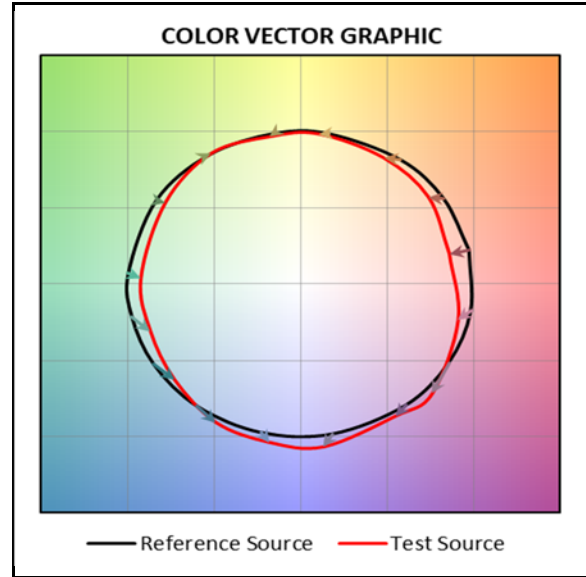
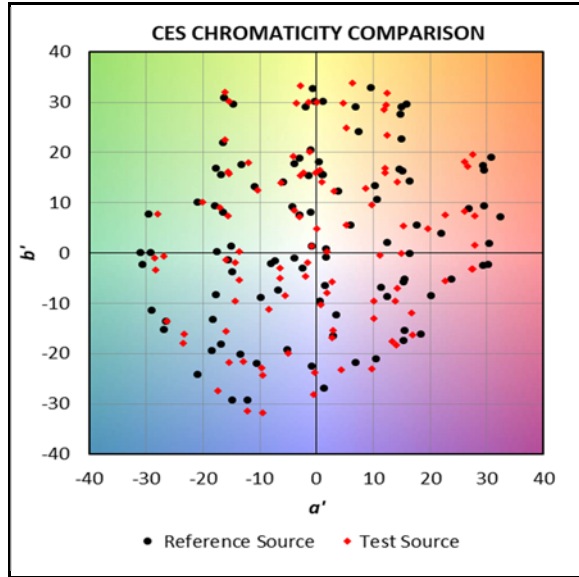
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.001073	480	0.041605	580	0.095016	680	0.021530
385	0.001173	485	0.041811	585	0.095025	685	0.018675
390	0.001500	490	0.044758	590	0.094410	690	0.016123
395	0.001944	495	0.050136	595	0.093169	695	0.013844
400	0.002514	500	0.057303	600	0.091554	700	0.011949
405	0.003137	505	0.064424	605	0.089030	705	0.010238
410	0.003800	510	0.070491	610	0.086191	710	0.008752
415	0.004844	515	0.075346	615	0.082275	715	0.007533
420	0.006948	520	0.079231	620	0.078002	720	0.006430
425	0.010782	525	0.081789	625	0.073232	725	0.005514
430	0.018021	530	0.084140	630	0.068031	730	0.004726
435	0.030417	535	0.085580	635	0.062808	735	0.004042
440	0.051421	540	0.087166	640	0.057338	740	0.003452
445	0.091394	545	0.088598	645	0.051913	745	0.002962
450	0.144327	550	0.089686	650	0.046578	750	0.002556
455	0.155733	555	0.090938	655	0.041494	755	0.002197
460	0.110914	560	0.092101	660	0.036873	760	0.001899
465	0.080173	565	0.093095	665	0.032399	765	0.001633
470	0.065554	570	0.094044	670	0.028335	770	0.001406
475	0.049863	575	0.094625	675	0.024782	775	0.001220
						780	0.001052





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 π geometry

Test Temperature: 24.4 °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.