

Report of Test

LLIA001646-001

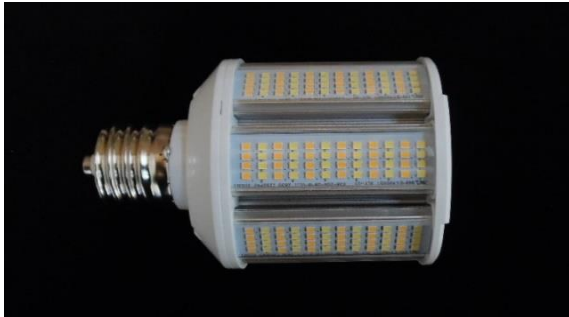
Integrating Sphere Report

Catalog Number: LWP-20WPCTS-EX39-G 5W, 5000K

Mogul-base retrofit lamp mounted horizontal and aimed down, formed plastic housing, formed aluminum heatsink, three clear plastic enclosures.

144 white LEDs; 72 CW, 72 WW on three circuit boards with 48 LEDs each

Internal LED driver



Performance Summary

Voltage	120.0 Vac
Current	0.0457 A
Power	5.16 W
Frequency	59.99 Hz
Power Factor	0.940
Current THD	25.7 %
Total Luminous Flux	850.1 lm
Efficacy	164.7 lm/W
Chromaticity (x,y)	(0.3431, 0.3548)
(u',v')	(0.2089, 0.4859)
Duv	0.0024
CCT	5086 K
CRI (Ra)	85
R9	18
TM-30: Rf	82
TM-30: Rg	93
TM-30: Rcs,h1	-12

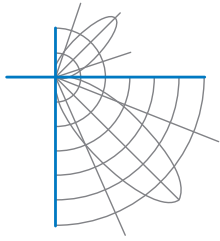
Prepared For:

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

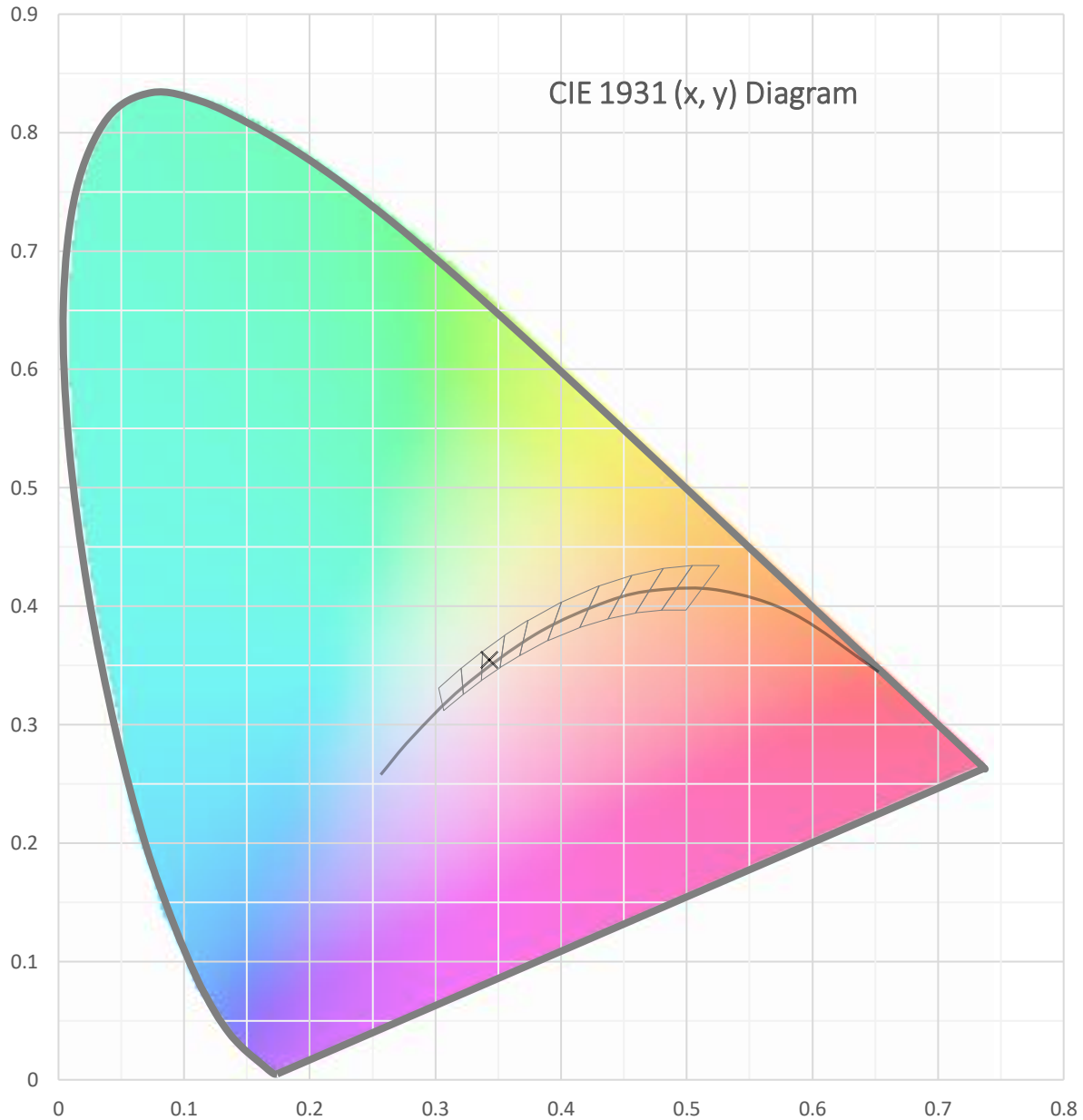
Test date: 01/27/2022

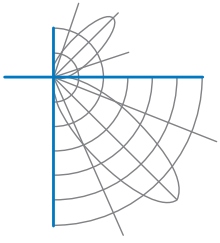
Report date: 02/01/2022

Signed: _____

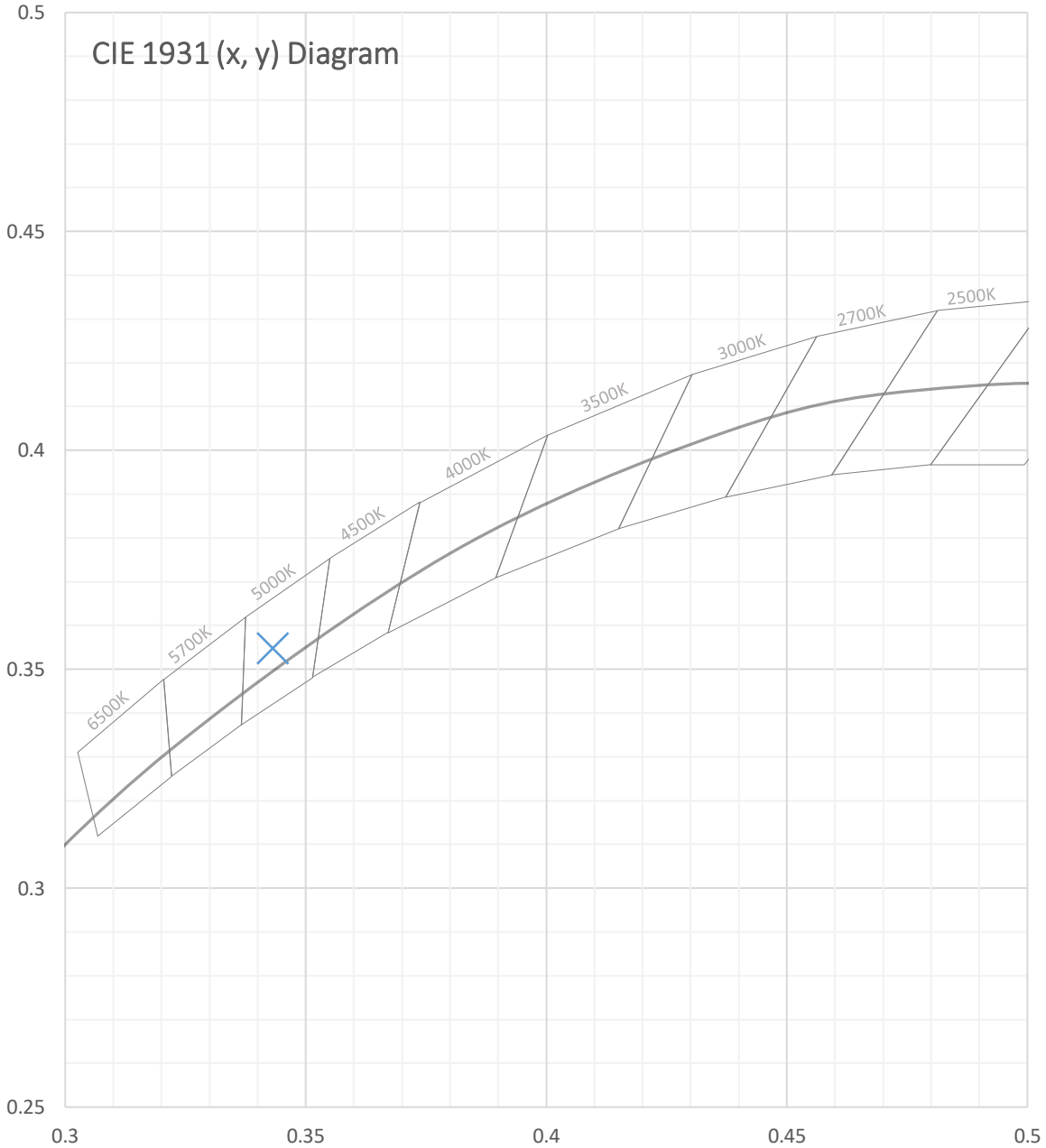


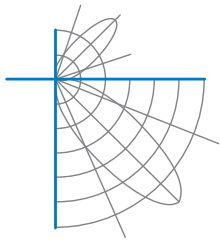
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Total Radiant Flux	2.706 W
Total Luminous Flux	850.1 Lm
Chromaticity CIE 1931 (x, y)	(0.3431, 0.3548)
Chromaticity CIE 1976 (u', v')	(0.2089, 0.4859)
Correlated Color Temperature (CCT)	5086 K
Color Rendering Index (Ra)	85
R1	84
R2	92
R3	95
R4	82
R5	84
R6	87
R7	87
R8	69
R9	18
R10	80
R11	82
R12	62
R13	87
R14	98
TM-30: Rf	82
TM-30: Rg	93
TM-30: Rcs,h1	-12
Distance from Planckian Locus (Duv)	0.0024
Scotopic/Photopic Ratio ‡	2.032

Electrical Data

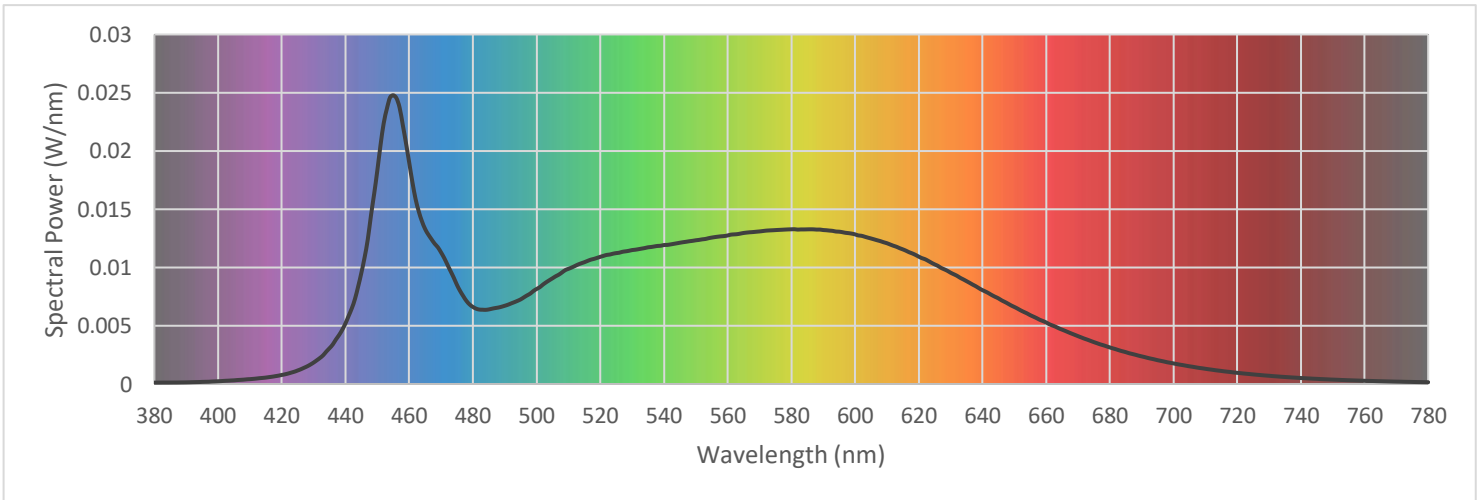
Voltage	120.0 Vac
Current	0.0457 A
Power	5.16 W
Frequency	59.99 Hz
Power Factor	0.940
Current THD	25.7 %

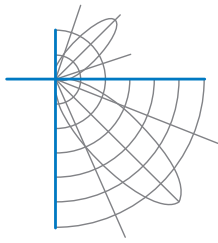


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Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

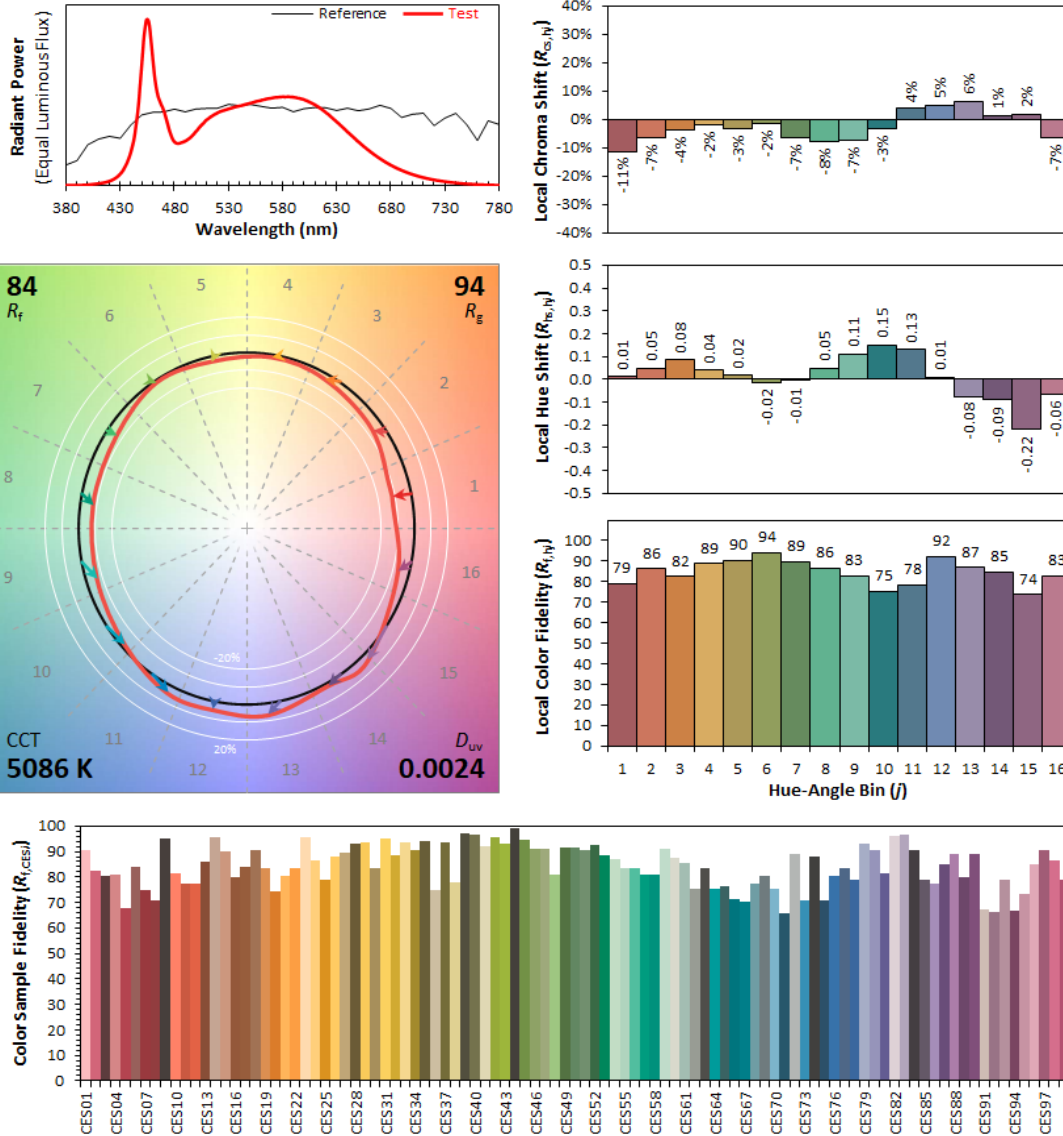
380	0.000116	480	0.006615	580	0.013275	680	0.003139
385	0.000122	485	0.006399	585	0.013272	685	0.002735
390	0.000139	490	0.006712	590	0.013215	690	0.002369
395	0.000179	495	0.007259	595	0.013073	695	0.002043
400	0.000234	500	0.008153	600	0.012844	700	0.001766
405	0.000314	505	0.009070	605	0.012492	705	0.001519
410	0.000417	510	0.009882	610	0.012084	710	0.001306
415	0.000551	515	0.010449	615	0.011554	715	0.001120
420	0.000775	520	0.010913	620	0.010933	720	0.000959
425	0.001161	525	0.011232	625	0.010266	725	0.000822
430	0.001843	530	0.011492	630	0.009554	730	0.000706
435	0.003074	535	0.011730	635	0.008829	735	0.000600
440	0.005205	540	0.011927	640	0.008058	740	0.000513
445	0.009559	545	0.012122	645	0.007355	745	0.000441
450	0.018327	550	0.012333	650	0.006617	750	0.000377
455	0.024776	555	0.012564	655	0.005911	755	0.000321
460	0.019004	560	0.012748	660	0.005285	760	0.000276
465	0.013304	565	0.012960	665	0.004668	765	0.000237
470	0.011294	570	0.013093	670	0.004109	770	0.000203
475	0.008504	575	0.013208	675	0.003594	775	0.000176
						780	0.000151



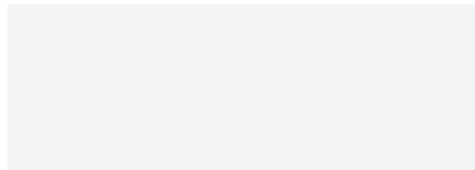


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IES TM-30 Details

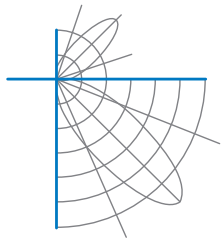


Notes:



x **0.3431**
y **0.3547**
u' **0.2089**
v' **0.4859**

CIE 13.3-1995
(CRI)
R_a 85
R_g 18



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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 4π geometry

Test Temperature: 25.1 °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.