LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

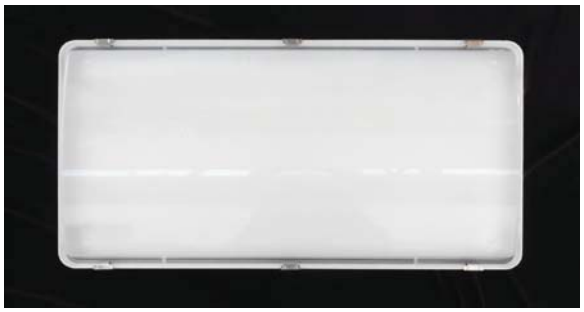
Report of Test

LLIA000678-005A-R01*

Integrating Sphere Report

Catalog Number: WVL 2 MD UV FA 835

Surface/Pendant mounted, white plastic vapor tight housing, white enamel internal reflector with frosted "acrylic" enclosure. 224 white LEDs, two Universal Lighting Technologies Everline M14CC835D112N3D boards with 112 LED each. One Universal Lighting Technologies Everline D24VA100UNVA-A LED driver.



Performance Summary

Voltage	120.0	Vac
Current	0.8504	A
Power	101.7	W
Frequency	60.00	Hz
Power Factor	0.996	
Current THD	5.0	%
Total Luminous Flux	12471.4	lm
Efficacy	122.6	lm/W
Chromaticity (x,y)	(0.3959, 0.3806)	
(u',v')	(0.2337, 0.5056)	
Duv	-0.0023	
CCT	3633	K
CRI (Ra)	85	
R9	18	

Prepared For:
Lumen Focus, LLC
880 Facet Road
Henderson, NC 27537, USA

*This test report supersedes test report LLIA000678-005A

Test date: 11/29/2016
Report date: 12/01/2016

Signed: Michael Grather Digitally signed by Michael Grather Date: 2016.12.01 14:44:20 -05'00'

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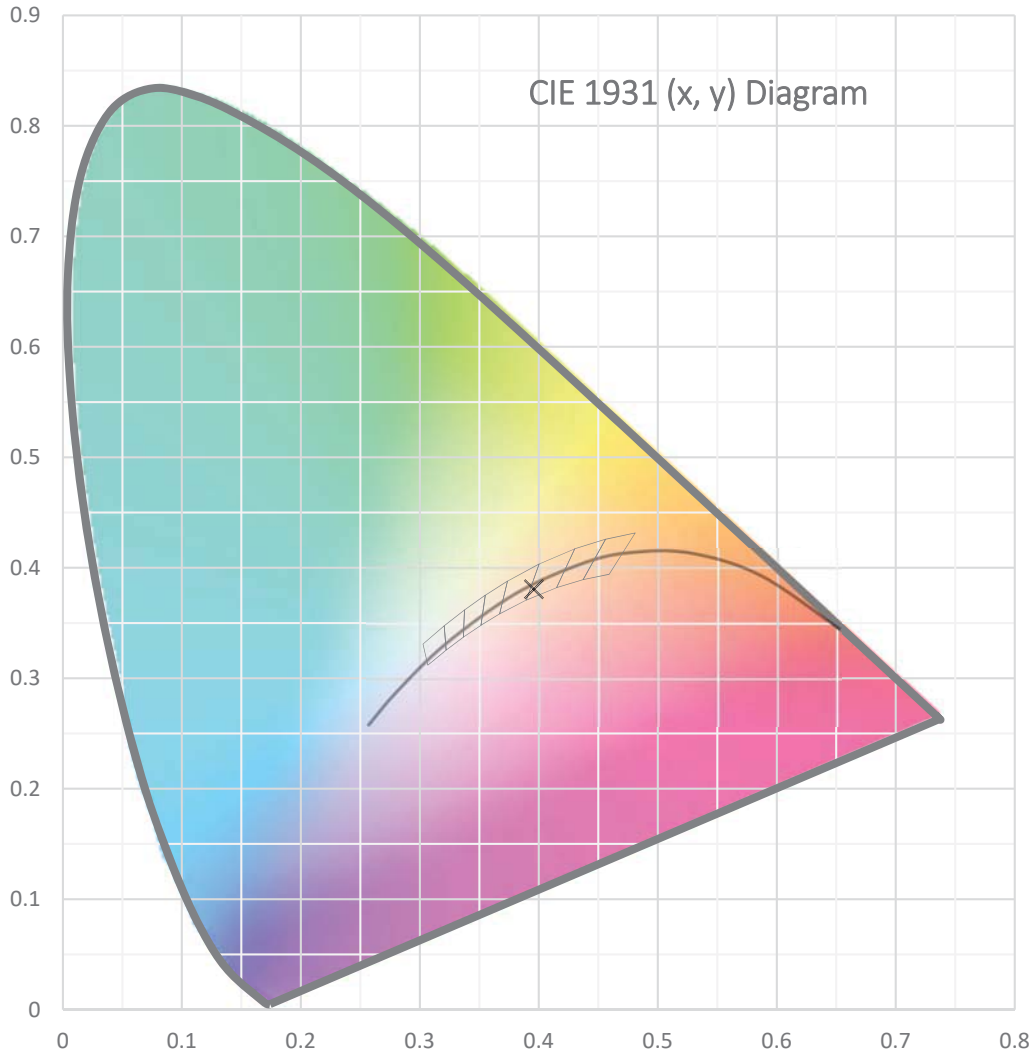

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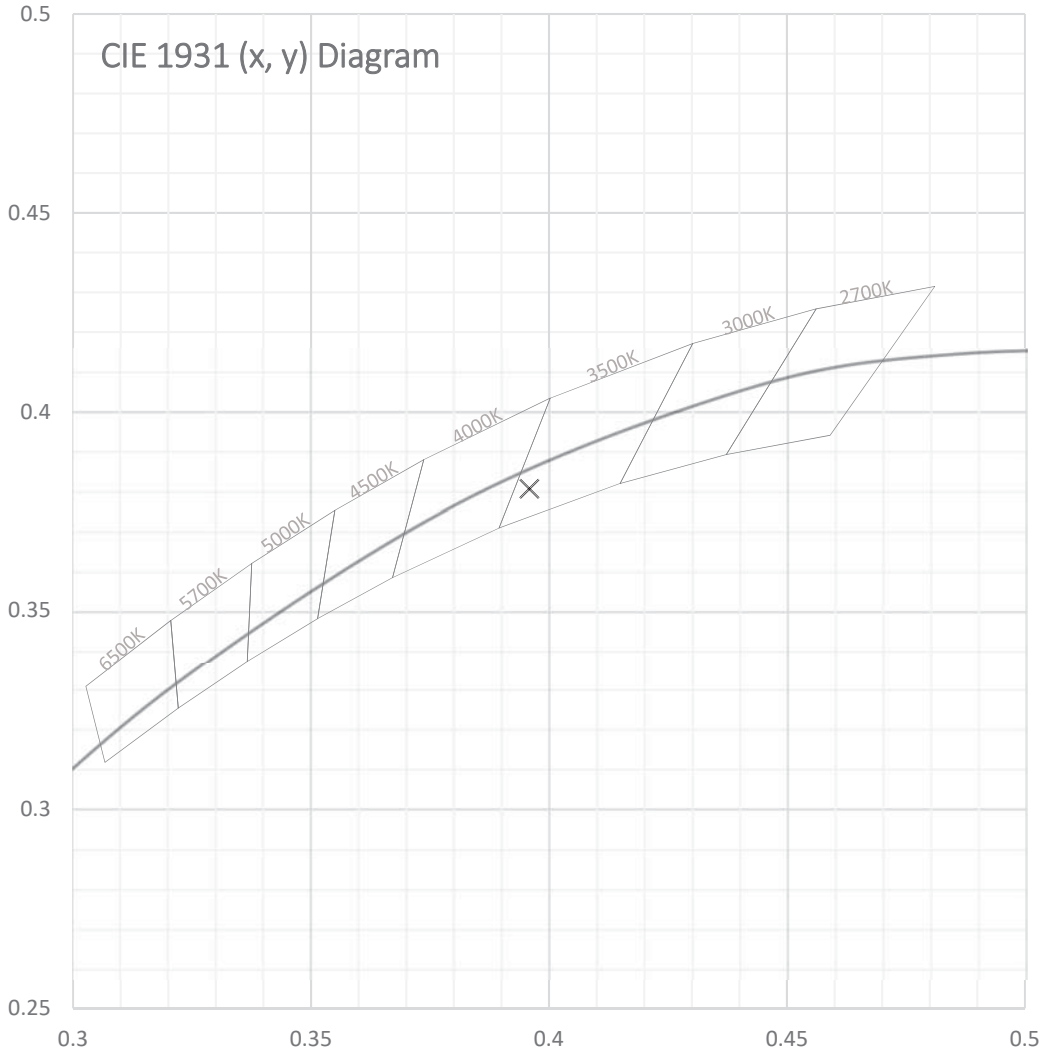

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Spectral Data	Total Radiant Flux	39.15	W
	Total Luminous Flux	12471.4	Lm
	Chromaticity CIE 1931 (x, y)	(0.3959, 0.3806)	
	Chromaticity CIE 1976 (u', v')	(0.2337, 0.5056)	
	Correlated Color Temperature (CCT)	3633	K
	Color Rendering Index (Ra)	85	
	R1	84	
	R2	91	
	R3	96	
	R4	84	
	R5	84	
	R6	88	
	R7	86	
	R8	66	
	R9	18	
	R10	80	
	R11	83	
	R12	72	
	R13	86	
	R14	98	
	Distance from Planckian Locus (Duv)	-0.0023	
	Scotopic/Photopic Ratio *	1.599	
Electrical Data			
	Voltage	120.0	Vac
	Current	0.8504	A
	Power	101.7	W
	Frequency	60.00	Hz
	Power Factor	0.996	
	Current THD	5.0	%

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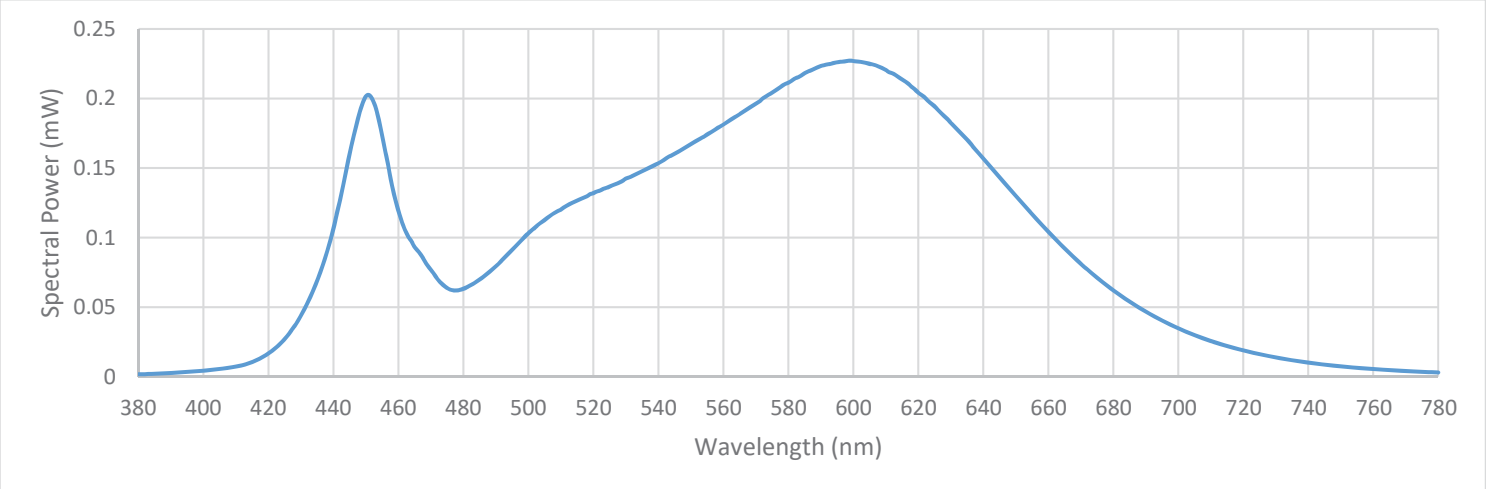
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.001800	480	0.063151	580	0.211298	680	0.062184
385	0.002122	485	0.069880	585	0.218155	685	0.054119
390	0.002713	490	0.079503	590	0.223374	690	0.046828
395	0.003467	495	0.091393	595	0.226024	695	0.040391
400	0.004411	500	0.103220	600	0.226925	700	0.034923
405	0.005575	505	0.112590	605	0.224801	705	0.029968
410	0.007421	510	0.120156	610	0.220525	710	0.025681
415	0.010527	515	0.126521	615	0.213802	715	0.022118
420	0.016797	520	0.131952	620	0.204103	720	0.018989
425	0.027102	525	0.136542	625	0.194412	725	0.016251
430	0.044117	530	0.142461	630	0.182413	730	0.013925
435	0.069272	535	0.147733	635	0.170519	735	0.011866
440	0.106258	540	0.153471	640	0.156678	740	0.010177
445	0.160637	545	0.160460	645	0.143319	745	0.008726
450	0.201623	550	0.167200	650	0.130023	750	0.007491
455	0.173287	555	0.174211	655	0.116800	755	0.006442
460	0.119619	560	0.181182	660	0.104382	760	0.005566
465	0.093211	565	0.188606	665	0.092323	765	0.004794
470	0.076782	570	0.196306	670	0.081268	770	0.004120
475	0.063729	575	0.204170	675	0.071280	775	0.003564
						780	0.003074



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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:	25.6 °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
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.

Sphere Report Template V2-7