

Performance Test Report

Report No.: 20092107-P0

Client information:		
Name	RAB Lighting Inc	
Address	Northvale, New Jersey 07647 USA	
Reception Date	2019-06-21	
Test Date	2019-06-21~2019-06-27	
Sample description:		
Sample Type	Self-ballasted LED lamp	
Type/Model	A19-4.5/9/14.5-E26-827-3WAY	
Test Voltage/Frequency	120V/60Hz	
Sample Quantities.	10	
Sample No.	001~010	
Test standard:		
According to IES LM-79-08		
Remarks of this test:		
/		
Description of measurement uncertainty:		
/		
Test case verdicts:		
Test case does not apply to the test object.....:	N/A	
Test item does meet the requirement.....:	P	
Test item does not meet the requirement.....:	F	
General test result: see test result		
Prepared by /Date		
Reviewed by /Date		
Approved by/Date		

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1. Performance Test Result

1.1 Photometric Measurements at 25°C - Integrating Sphere Method

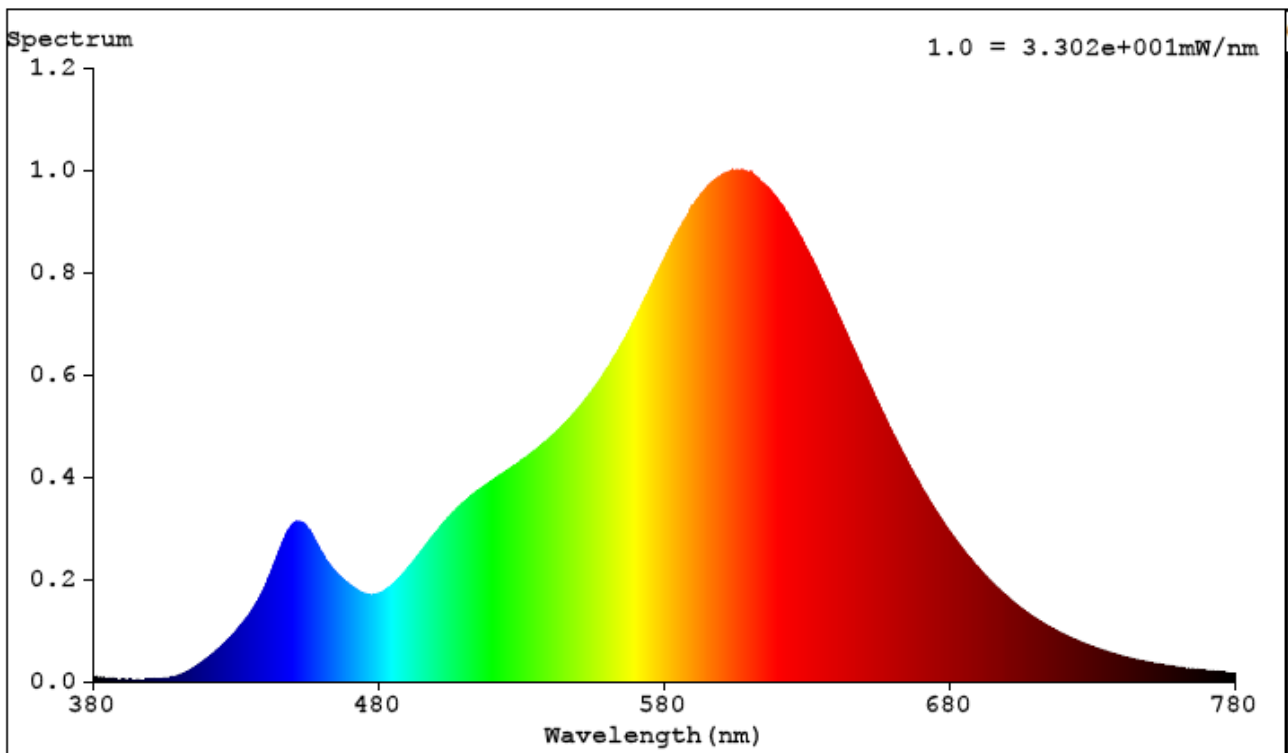
Sample No.	Base orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor	Absolute Luminous Flux (lm)	Lumen Efficacy (lm/W)
001	Base up	119.9	118.80	13.89	0.975	1549.3	111.51
002	Base up	119.9	118.50	13.88	0.977	1571.0	113.16
003	Base up	119.9	121.20	14.20	0.977	1568.7	110.46
004	Base up	119.9	121.50	14.24	0.977	1596.6	112.12
005	Base up	119.9	115.80	13.54	0.975	1516.2	112.00
006	Base down	119.9	126.30	14.82	0.978	1597.8	107.82
007	Base down	119.9	124.10	14.56	0.978	1616.1	111.00
008	Base down	119.9	123.50	14.48	0.978	1586.4	109.55
009	Base down	119.9	119.30	13.96	0.976	1553.2	111.27
010	Base down	119.9	122.40	14.34	0.977	1561.6	108.87
Average		119.9	121.14	14.19	0.977	1571.7	110.78

Sample No.	Base orientation	Correlated Color Temperature (K)	CRI	CIE 1931 Chromaticity Coordinate		CIE 1976 Chromaticity Coordinate		Radiant Flux (W)	Ambient Temp (°C)	Rf	Rg
				x	y	u'	v'				
001	Base up	2736	82.4	0.4572	0.4104	0.2610	0.5270	4.7577	25.7	86	95
002	Base up	2727	82.3	0.4590	0.4125	0.2611	0.5280	4.8506	24.7	86	95
003	Base up	2724	82.2	0.4591	0.4122	0.2621	0.5284	5.0700	25.8	86	95
004	Base up	2745	82.2	0.4575	0.4122	0.2612	0.5283	5.1727	25.8	86	95
005	Base up	2708	82.2	0.4599	0.4118	0.2623	0.5281	4.7231	25.7	86	95
006	Base down	2702	82.1	0.4611	0.4130	0.2622	0.5285	4.9389	24.8	86	95
007	Base down	2711	82.2	0.4600	0.4122	0.2618	0.5280	4.9983	25.3	86	95
008	Base down	2699	82.0	0.4615	0.4133	0.2623	0.5286	4.9011	25.2	86	95
009	Base down	2700	82.2	0.4614	0.4134	0.2623	0.5286	4.8000	24.9	86	95
010	Base down	2705	82.2	0.4607	0.4127	0.2621	0.5283	4.8289	25.4	86	95
Average		2716	82.2	0.4597	0.4124	0.2618	0.5282	4.9041	25.3	86	95

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1.2 Test data

1.2.1 Spectral Power Distribution (sample No.:001)



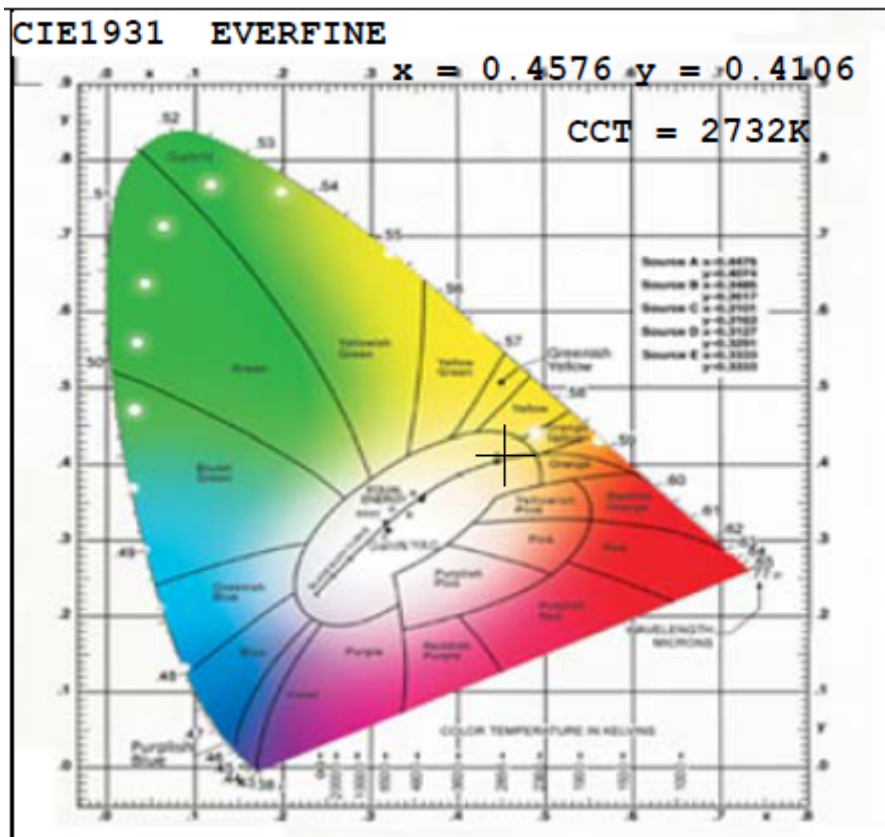
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1.2.2 Tabulated Spectral Power Distribution (sample No.:001)

WL (nm)	Relative Spectral	Absolute Spectral (mW/nm)	WL (nm)	Relative Spectral	Absolute Spectral (mW/nm)
380	0.0096	0.3166	585	0.8796	29.05
385	0.0063	0.2081	590	0.9304	30.72
390	0.0052	0.1724	595	0.9653	31.87
395	0.005	0.1658	600	0.9886	32.64
400	0.0052	0.1731	605	0.9983	32.97
405	0.0071	0.2335	610	0.996	32.89
410	0.0125	0.4123	615	0.9727	32.12
415	0.0261	0.8611	620	0.9402	31.05
420	0.0458	1.511	625	0.8961	29.59
425	0.0687	2.269	630	0.8449	27.9
430	0.0978	3.23	635	0.7878	26.01
435	0.133	4.391	640	0.7278	24.03
440	0.1817	6	645	0.6656	21.98
445	0.2512	8.295	650	0.6048	19.97
450	0.3074	10.15	655	0.5441	17.97
455	0.3002	9.914	660	0.4856	16.04
460	0.253	8.353	665	0.4317	14.26
465	0.2136	7.054	670	0.3809	12.58
470	0.1887	6.23	675	0.3347	11.05
475	0.1725	5.696	680	0.293	9.675
480	0.172	5.679	685	0.2558	8.446
485	0.1903	6.283	690	0.2231	7.366
490	0.2196	7.252	695	0.1927	6.363
495	0.2545	8.405	700	0.1668	5.508
500	0.2908	9.602	705	0.1439	4.752
505	0.3234	10.68	710	0.1241	4.099
510	0.3512	11.6	715	0.1073	3.541
515	0.3743	12.36	720	0.0925	3.054
520	0.3936	13	725	0.0799	2.639
525	0.4121	13.61	730	0.0686	2.266
530	0.4318	14.26	735	0.0588	1.942
535	0.4526	14.94	740	0.0507	1.675
540	0.4756	15.71	745	0.0436	1.441
545	0.5026	16.59	750	0.0379	1.25
550	0.5336	17.62	755	0.0328	1.083
555	0.5692	18.8	760	0.0285	0.941
560	0.6107	20.17	765	0.0251	0.8292
565	0.6573	21.7	770	0.0221	0.7296
570	0.7091	23.41	775	0.0196	0.6469
575	0.7676	25.35	780	0.0184	0.6074
580	0.8237	27.2			

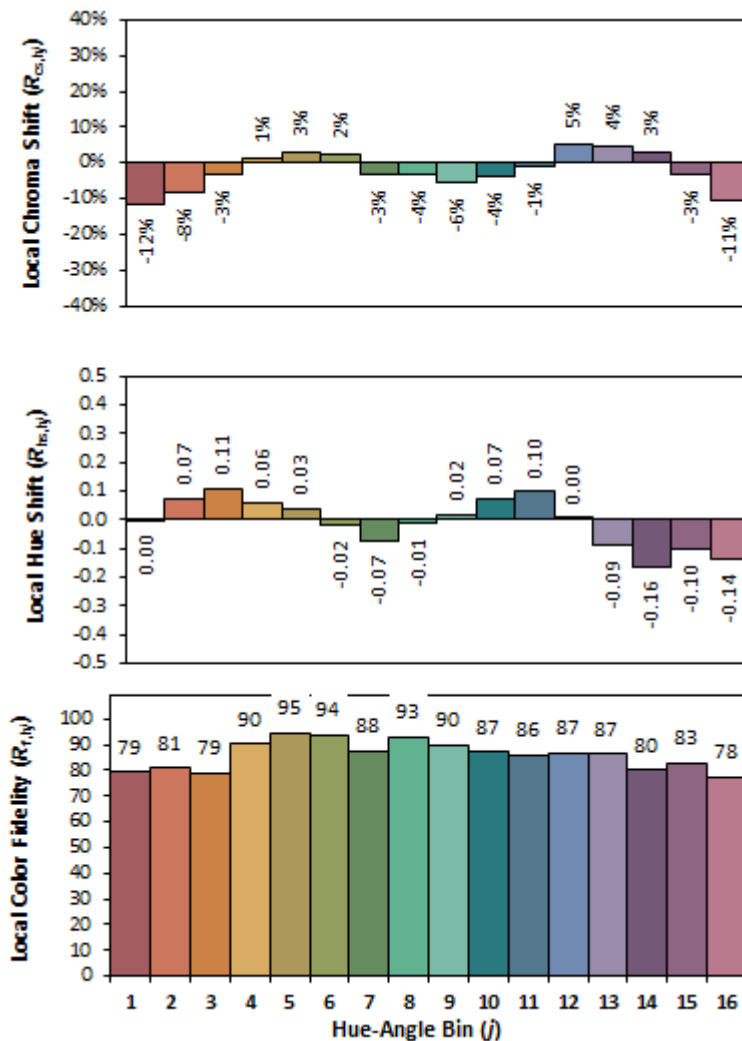
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1.2.3 CIE Chromaticity Diagram (sample No.:001)



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1.2.4 The TM-30 value for Color Rendition by Hue-angle bin



1.3 CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

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ANNEX 1 PICTURE



Fig.1 View of sample

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