

Performance Test Report

Report No.: 20092101-P0

Client information:		
Name	RAB Lighting Inc	
Address	Northvale, New Jersey 07647 USA	
Reception Date	2020-08-03	
Test Date	2020-08-03~2020-08-04	
Sample description:		
Sample Type	Self-ballasted LED lamp	
Type/Model	BR30-8.5-830-DIM ECO 6PK	
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

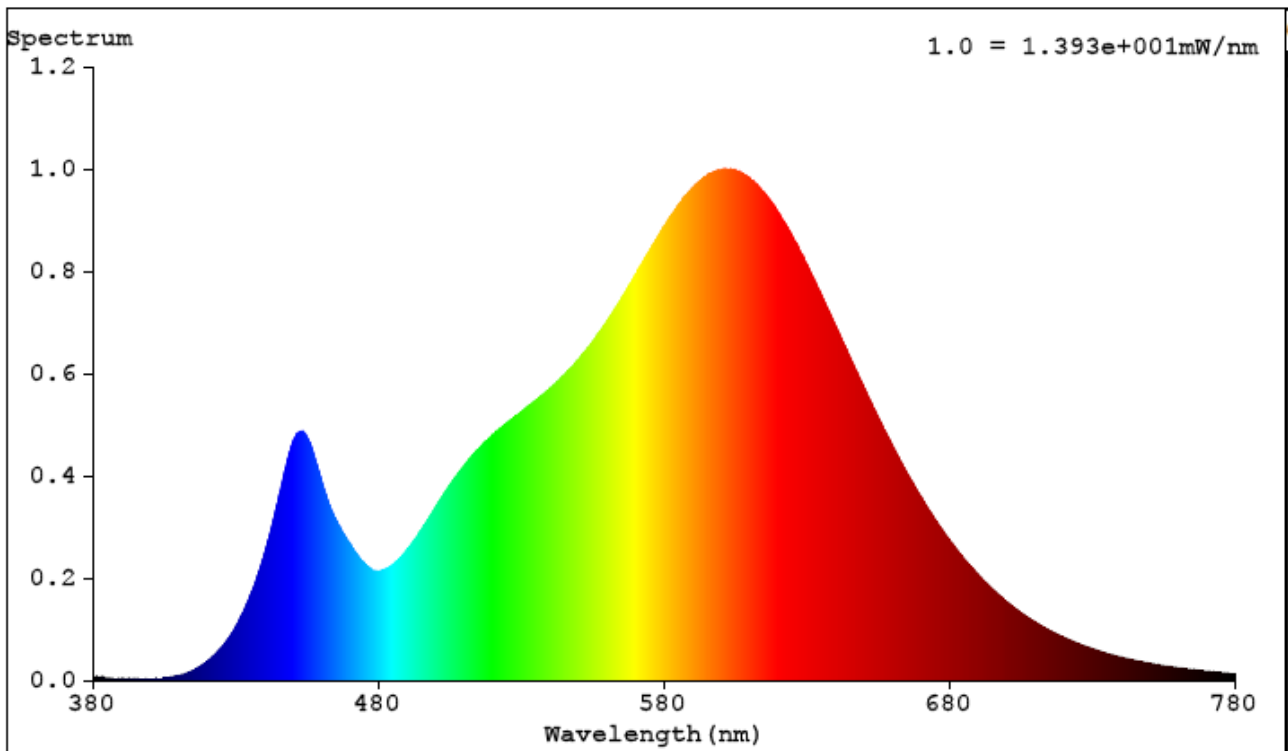
Sample No.	Base orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor	Absolute Luminous Flux (lm)	Lumen Efficacy (lm/W)
001	Base up	120.0	92.20	8.14	0.736	727.1	89.31
002	Base up	120.0	92.12	8.10	0.733	727.8	89.88
003	Base up	120.0	93.60	8.31	0.740	731.7	88.00
004	Base up	120.0	93.22	8.24	0.737	732.1	88.85
005	Base up	120.0	92.41	8.15	0.735	728.2	89.33
006	Base down	120.0	93.52	8.25	0.735	787.7	95.47
007	Base down	120.0	93.19	8.22	0.735	784.9	95.55
008	Base down	120.0	92.81	8.19	0.736	784.6	95.77
009	Base down	120.0	92.69	8.19	0.736	788.0	96.24
010	Base down	120.0	92.29	8.11	0.732	788.0	96.07
Average		120.0	92.81	8.19	0.735	757.1	92.45

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	3091	82.5	0.4320	0.4047	0.2471	0.5209	2.2016	24.1	85	95
002	Base up	3096	82.4	0.4320	0.4054	0.2468	0.5212	2.2000	24.2	85	95
003	Base up	3103	82.6	0.4313	0.4048	0.2467	0.5208	2.2175	24.4	85	96
004	Base up	3101	82.6	0.4308	0.4035	0.2469	0.5203	2.2207	24.5	85	96
005	Base up	3099	82.5	0.4313	0.4043	0.2469	0.5206	2.2065	24.6	85	95
006	Base down	3117	82.5	0.4302	0.4040	0.2462	0.5204	2.3844	25.3	85	95
007	Base down	3120	82.7	0.4293	0.4024	0.2463	0.5196	2.3847	25.4	85	95
008	Base down	3126	82.7	0.4291	0.4029	0.2461	0.5197	2.3840	25.4	85	97
009	Base down	3128	82.7	0.4290	0.4029	0.2460	0.5197	2.3916	25.3	85	96
010	Base down	3112	82.5	0.4301	0.4032	0.2465	0.5200	2.3607	25.2	85	95
Average		3109	82.6	0.4305	0.4038	0.2466	0.5203	2.2952	24.8	85	96

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1.2 Test data

1.2.1 Spectral Power Distribution (sample No.:001)



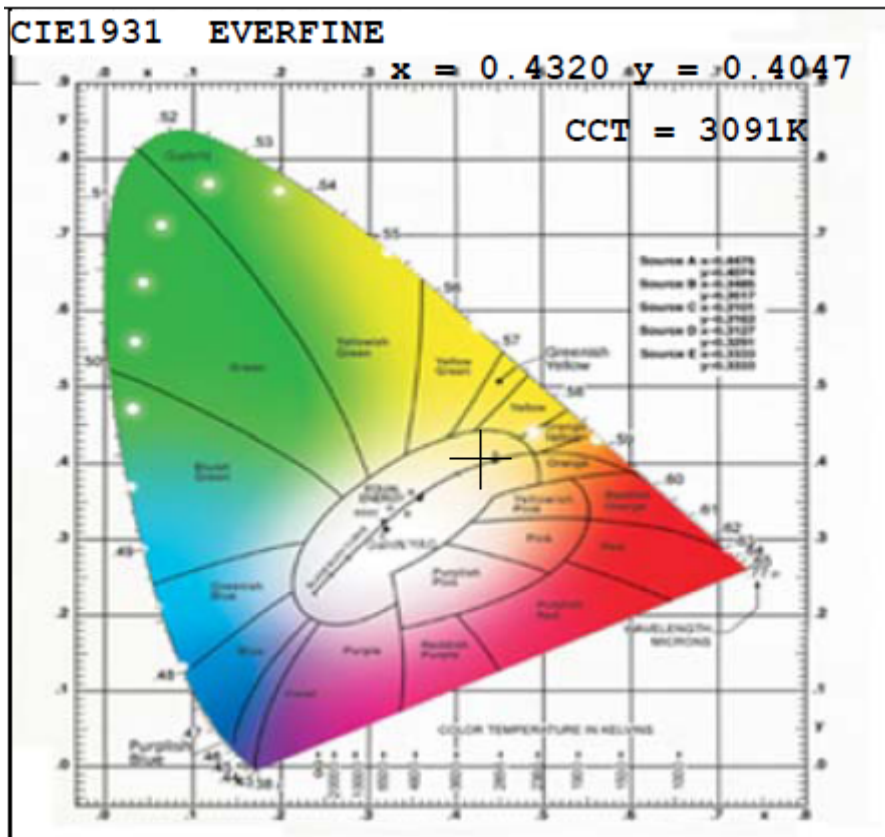
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1.2.2 Tabulated Spectral Power Distribution (sample No.:001)

WL (nm)	Relative Spectral	Absolute Spectral (mW/nm)	WL (nm)	Relative Spectral	Absolute Spectral (mW/nm)
380	0.0067	0.09328	585	0.9286	12.94
385	0.0046	0.06461	590	0.9622	13.41
390	0.0041	0.05752	595	0.9862	13.74
395	0.0039	0.0539	600	0.9973	13.9
400	0.0044	0.06151	605	0.9974	13.9
405	0.0056	0.07758	610	0.9812	13.67
410	0.0095	0.132	615	0.9535	13.29
415	0.0193	0.2683	620	0.9142	12.74
420	0.0372	0.5188	625	0.8664	12.07
425	0.064	0.8916	630	0.8122	11.32
430	0.1042	1.453	635	0.7539	10.5
435	0.1631	2.272	640	0.6925	9.65
440	0.2442	3.403	645	0.6318	8.804
445	0.3556	4.956	650	0.5719	7.969
450	0.4639	6.464	655	0.5135	7.156
455	0.474	6.605	660	0.4578	6.38
460	0.3888	5.418	665	0.4053	5.648
465	0.3144	4.381	670	0.3575	4.982
470	0.2664	3.712	675	0.3128	4.359
475	0.2291	3.192	680	0.2736	3.812
480	0.2142	2.985	685	0.2377	3.313
485	0.226	3.15	690	0.2066	2.879
490	0.2546	3.548	695	0.1787	2.49
495	0.2938	4.094	700	0.1539	2.145
500	0.3381	4.711	705	0.1322	1.842
505	0.3816	5.318	710	0.1137	1.585
510	0.4187	5.834	715	0.0977	1.362
515	0.4513	6.289	720	0.0842	1.174
520	0.4805	6.695	725	0.0722	1.007
525	0.503	7.009	730	0.0616	0.8577
530	0.5253	7.319	735	0.0529	0.7373
535	0.547	7.623	740	0.0454	0.632
540	0.5707	7.953	745	0.039	0.5436
545	0.5966	8.313	750	0.0335	0.4669
550	0.6265	8.731	755	0.0288	0.4018
555	0.6616	9.219	760	0.0248	0.3458
560	0.7008	9.766	765	0.0213	0.2974
565	0.7453	10.39	770	0.0184	0.2566
570	0.7923	11.04	775	0.016	0.2223
575	0.8404	11.71	780	0.0145	0.2022
580	0.8865	12.35			

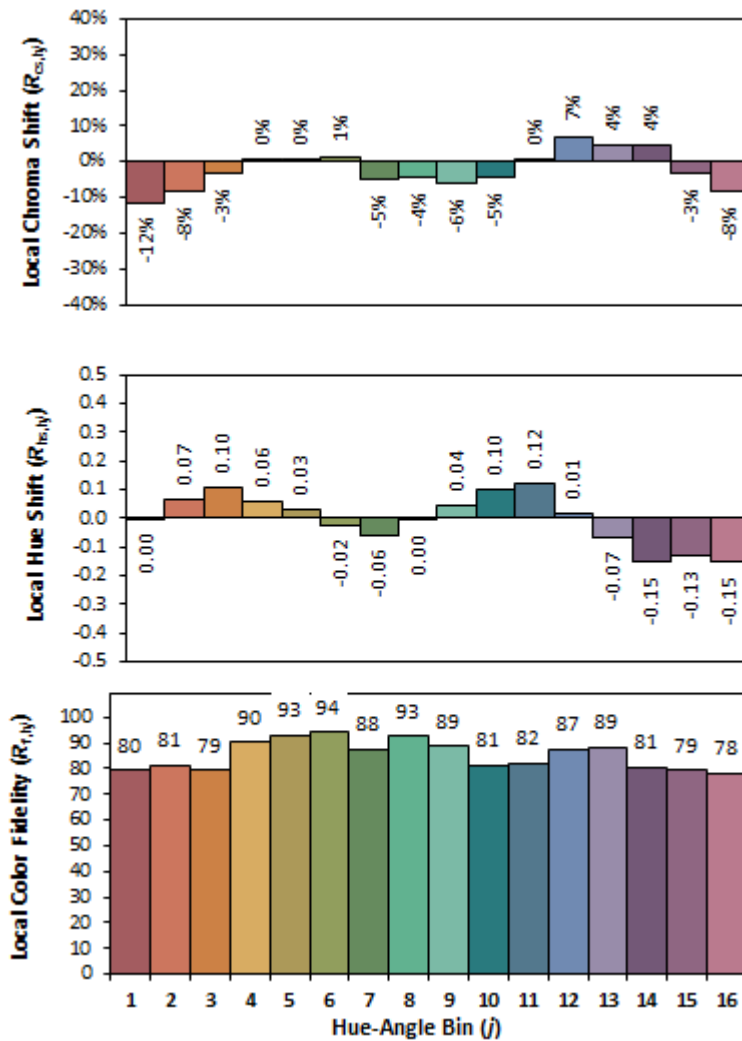
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1.2.3 CIE Chromaticity Diagram (sample No.:001)



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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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