

LM-79-08 Test Report

For

Beyond LED Technology

(Brand Name: Beyond)

1939 Parker Court, Stone Mountain, GA 30087

High-Bay Luminaries for Commercial and Industrial Buildings

Model name(s): BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD

Remark: "a" can be any two letters for lamp colors; "b" can be "S", "EM" or blank for Surge-Protective Device, Emergency Driver provided or not; "c" can be "M", "P" or blank for DC Motion Sensor, DC PIR sensor provided or not; "d" can be any digits for CCT; "W" for wattage adjustable; "D" for color tunable.

Representative (Tested) Model:

AST-HB26-240WS1B160/80/100A1-abcdWD(Setting at 3000K 60°)

AST-HB26-240WS1B160/80/100A1-abcdWD(Setting at 4000K 60°)

AST-HB26-240WS1B160/80/100A1-abcdWD(Setting at 5000K 60°)

AST-HB26-240WS1B160/80/100A1-abcdWD(Setting at 3000K 80°)

AST-HB26-240WS1B160/80/100A1-abcdWD(Setting at 3000K 100°)

Model Different: All construction and rating are the same, except CCT

Test & Report By:



Engineer: Winny Wu

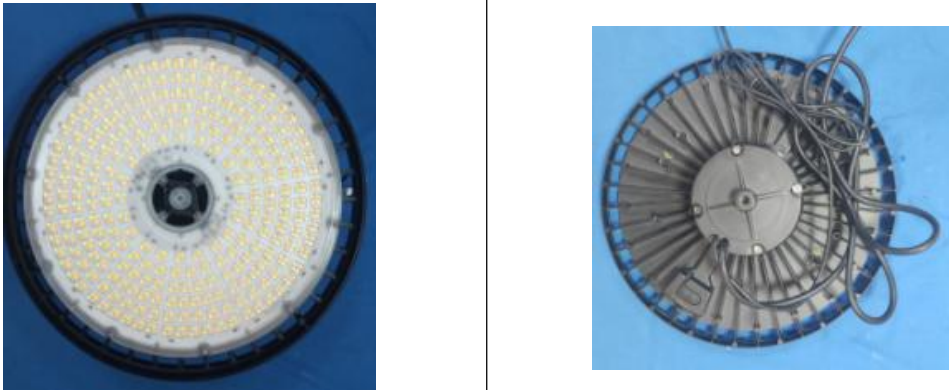
Date: 2025-05-19

Review By:



Manager: Jason Luo

1.1 Product Information:

Organization Name	Beyond LED Technology	
Brand Name	Beyond LED Technology	
Model Number	BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	High-Bay Luminaires for Commercial and Industrial Buildings	
Rated Voltage / Frequency	120-277Vac, 50/60 Hz	
Nominal Power	240W(Power adjustable)	
Rated Initial Lamp Lumen	--	
Declared CCT	3000K,4000K, 5000K (Color tunable)	
LED Manufacturer	Lumileds Holding B.V.	
LED Model	L128-3080RC35005A1 L128-5080RC35005A1	
Sample Number	UTU2505005E-L	1
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s
Photo		
		

1.2 Test Specifications:

Date of Receipt	2025-05-07
Date of Test	2025-05-09
Test item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters
Reference Standard	1. IES LM-79-2019 Electrical and Photometric Measurements of Solid-State Lighting Products 2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products 3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources 4. CIE 15-2004 Technical Report Colorimetry 5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source 6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	BL-QP-033

1.3 Test Methods

1) Photometric and Light Distribution Measurement – Goniophotometer Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals. Goniophotometer far field detector $f1'=1.42\%$, Test distance: 14.14m

2) Chromaticity Measurement – Sphere-Spectroradiometer Method:

Chromaticity parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm. Use 2m diameter integrated sphere (94-98% coating reflectance) and 4π geometry.

Self-absorption:

AST-HB26-240WS1B160/80/100A1-abcdWD :1.1975

3) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.

Laboratory: UTEST TECHNICAL LABORATORY CO.LTD A2LA Certificate# 4810.01

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Report Format Number BL-FM-SA-012

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2.1 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2025-05-09	Test Ambient:	25.2 ° C
Test Orientation	Horizontal	Stabilization Time (min)	90
Model Number	BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD	Operation time(min)	110

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
UTU250500 5E-L 1	120.0	60	1.978	237.09	0.999	4.19
	277.0	60	0.858	229.22	0.965	4.45
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

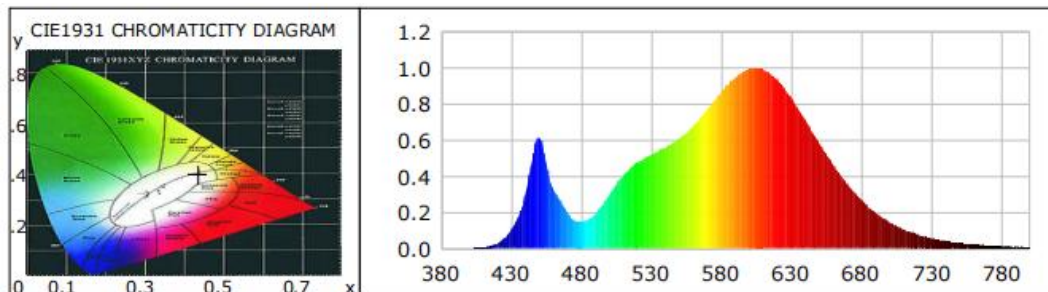
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	7
Frequency (Hz)	60	R2	90	R10	77
CCT (K)	3015	R3	96	R11	81
Duv	-0.0015	R4	81	R12	70
Chromaticity (x, y)	x=0.4337 y=0.3993	R5	81	R13	83
Chromaticity (u', v')	u'=0.2506 v'=0.519	R6	87	R14	98
Color Rendering Index (CRI)	82	R7	83	R15	74
R9	7	R8	60	--	--
Rf	84	--	--	--	--
Rg	98	--	--	--	--
Rcs,h1(%)	-11				

Photometric Measurement – Goniophotometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	34946.4	34593.5	>=10000(-10%)
Luminous Efficacy (lm/W)	147.4	150.92	Premium: >= 135(-3%)
Most worst Luminous/Highest	145.91		
Zonal lumens in the 20-50° zone (%)	56.90	--	>=30(-10%)
Beam Angle (°)	62.6	--	--
Center Beam Candle Power (cd)	28445	--	--

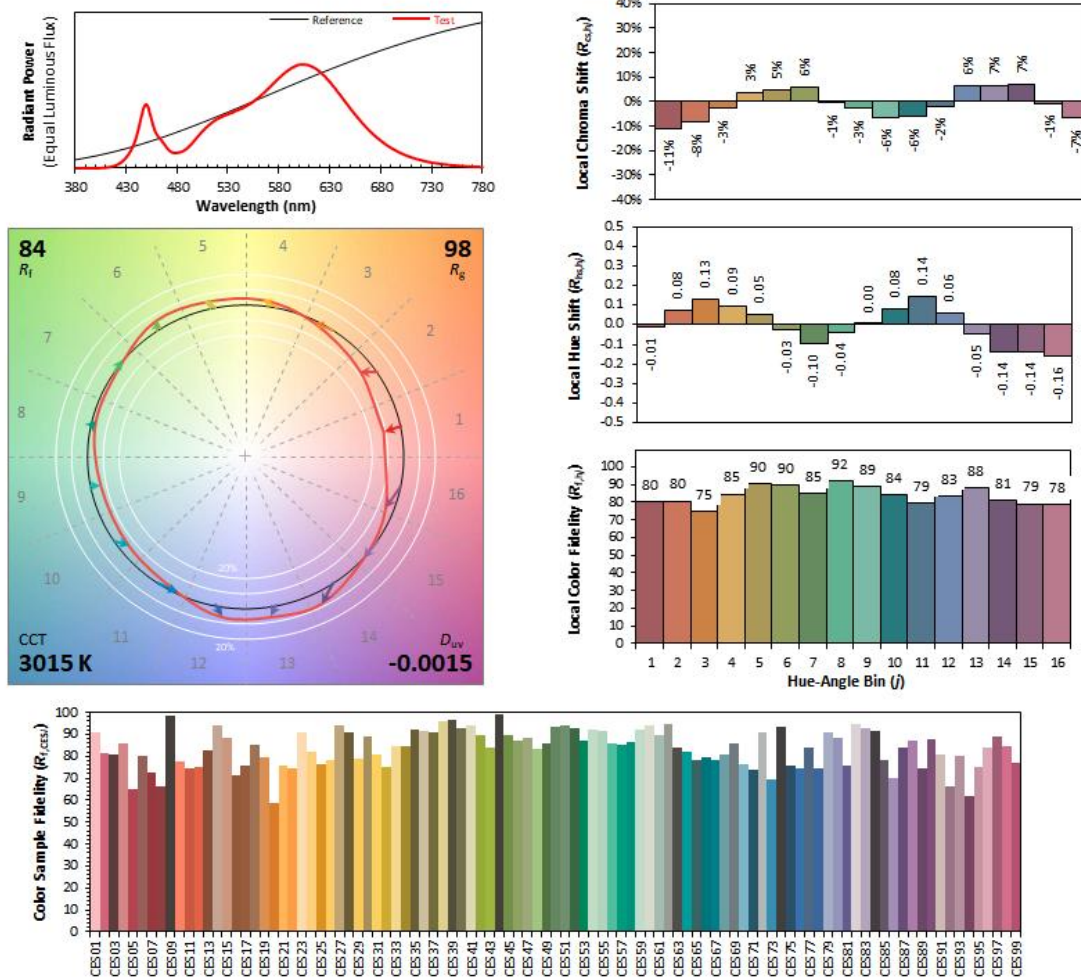
Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0012	0.7720	535	0.4991	324.7321	690	0.3519	228.9582
385	0.0002	0.1153	540	0.5188	337.5507	695	0.3072	199.9160
390	0.0001	0.0836	545	0.5385	350.3816	700	0.2666	173.4843
395	0.0004	0.2479	550	0.5613	365.2408	705	0.2293	149.2254
400	0.0006	0.3689	555	0.5822	378.7944	710	0.1985	129.1804
405	0.0020	1.2694	560	0.6099	396.8656	715	0.1703	110.8059
410	0.0057	3.7113	565	0.6412	417.2245	720	0.1445	93.9979
415	0.0128	8.3293	570	0.6807	442.9134	725	0.1235	80.3633
420	0.0277	18.0396	575	0.7233	470.6111	730	0.1052	68.4608
425	0.0551	35.8349	580	0.7689	500.3182	735	0.0898	58.4480
430	0.1018	66.2569	585	0.8191	532.9906	740	0.0775	50.4588
435	0.1766	114.8897	590	0.8664	563.7633	745	0.0644	41.9015
440	0.2973	193.4721	595	0.9098	591.9718	750	0.0548	35.6459
445	0.4965	323.0356	600	0.9496	617.8824	755	0.0477	31.0116
450	0.6151	400.1935	605	0.9762	635.1830	760	0.0407	26.4524
455	0.4701	305.8849	610	0.9964	648.2972	765	0.0346	22.5391
460	0.3281	213.4615	615	0.9986	649.7266	770	0.0292	19.0047
465	0.2656	172.8120	620	0.9901	644.1944	775	0.0259	16.8320
470	0.1964	127.7659	625	0.9663	628.7604	780	0.0217	14.1414
475	0.1536	99.9582	630	0.9332	607.2150	785	0.0174	11.3120
480	0.1484	96.5377	635	0.8872	577.2807	790	0.0149	9.6988
485	0.1604	104.3649	640	0.8323	541.5608	795	0.0133	8.6471
490	0.1921	125.0244	645	0.7735	503.2626	800	0.0109	7.1153
495	0.2420	157.4359	650	0.7092	461.4808			
500	0.2999	195.1456	655	0.6439	418.9371			
505	0.3547	230.8109	660	0.5789	376.6933			
510	0.4041	262.9480	665	0.5170	336.3919			
515	0.4445	289.2143	670	0.4590	298.6359			
520	0.4749	308.9977	675	0.4030	262.1947			
525	0.4991	324.7321	680	0.3519	228.9582			
530	0.5188	337.5507	685	0.3072	199.9160			

TM30

ANSI/IES TM-30-18 Color Rendition Report



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4337
 y 0.3993
 u' 0.2506
 v' 0.5190

CIE 13.3-1995
(CRI)

R_a 82
 R_g 7

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

Zonal Lumen Tabulation

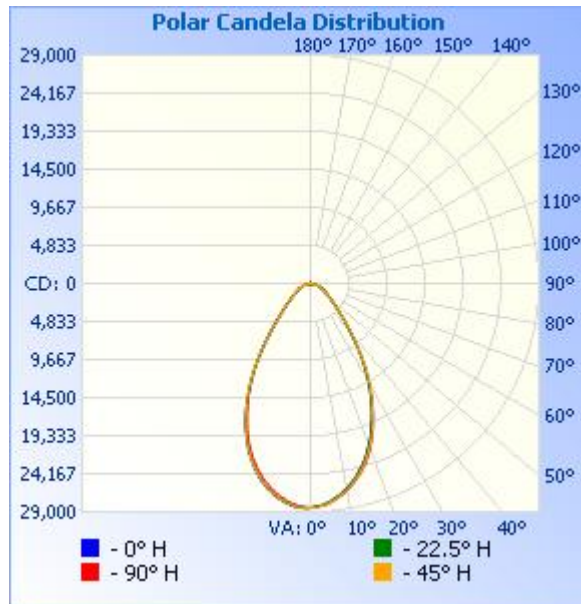
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	18,225.5	52.2%	52.2%
0-40	25,287.8	72.4%	72.4%
0-60	31,939.1	91.4%	91.4%
60-90	2,803.0	8%	8%
70-100	1,171.7	3.4%	3.4%
90-120	67.4	0.2%	0.2%
0-90	34,742.1	99.4%	99.4%
90-180	197.5	0.6%	0.6%
0-180	34,939.6	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2,631.3	7.5%	90-100	23.2	0.1%
10-20	6,942.6	19.9%	100-110	22.5	0.1%
20-30	8,651.6	24.8%	110-120	21.7	0.1%
30-40	7,062.4	20.2%	120-130	21.6	0.1%
40-50	4,147.7	11.9%	130-140	24.2	0.1%
50-60	2,503.6	7.2%	140-150	28.5	0.1%
60-70	1,654.5	4.7%	150-160	27.3	0.1%
70-80	938.5	2.7%	160-170	20.9	0.1%
80-90	210.0	0.6%	170-180	7.7	0%

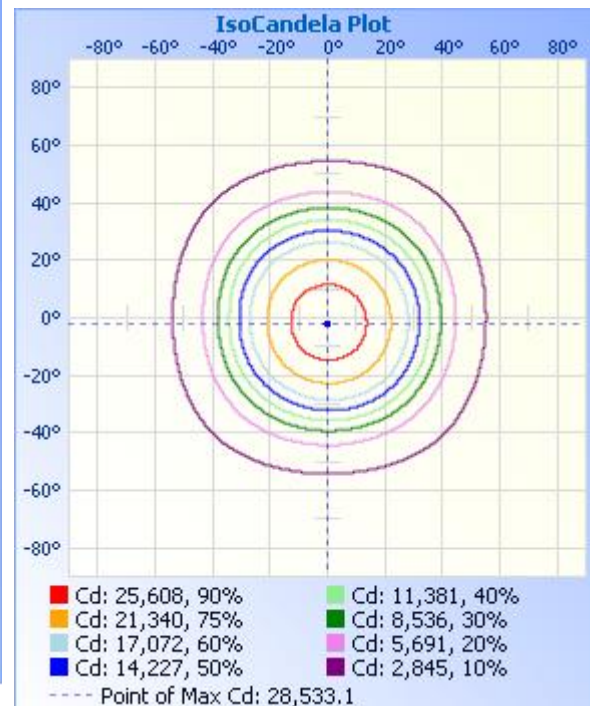
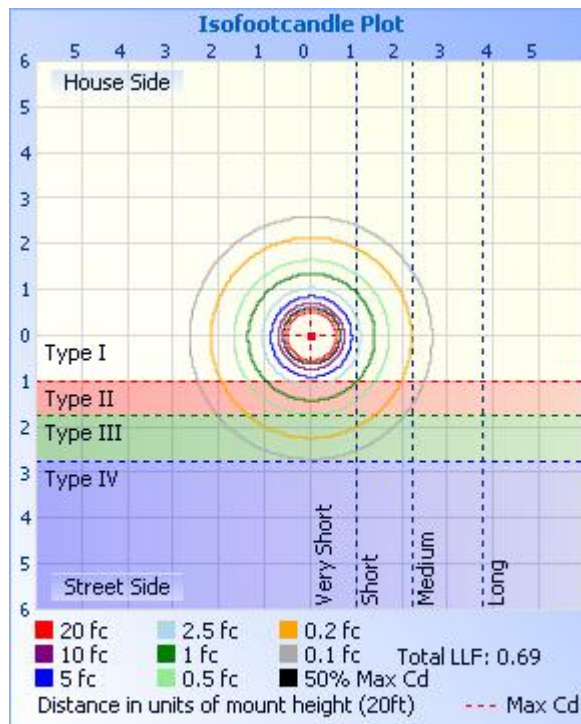
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	98.4 fc	20.7 ft	20.7 ft
34.0ft	24.6 fc	41.4 ft	41.3 ft
51.0ft	10.9 fc	62.0 ft	62.0 ft
68.0ft	6.15 fc	82.7 ft	82.7 ft
85.0ft	3.94 fc	103.4 ft	103.4 ft
102.0ft	2.73 fc	124.1 ft	124.0 ft

■ Vert. Spread: 62.6°
■ Horiz. Spread: 62.6°



Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445	28445
1	28445	28309	28440	28450	28380	28446	28436	28457	28533	28398	28524	28413	28463	28391	28430	28303	28445
2	28281	28264	28387	28284	28368	28339	28476	28392	28510	28445	28441	28422	28319	28365	28255	28294	28281
3	28194	28155	28189	28269	28189	28328	28331	28418	28397	28392	28430	28262	28303	28186	28198	28081	28194
4	28051	27928	28122	28051	28141	28172	28322	28251	28392	28251	28338	28233	28112	28100	27998	27965	28051
5	27759	27803	27878	27919	27945	28026	28154	28195	28228	28204	28150	28073	27976	27929	27810	27792	27759
6	27586	27500	27707	27747	27703	27891	27945	28050	28104	28001	28077	27841	27817	27646	27619	27474	27586
7	27291	27295	27470	27450	27531	27592	27814	27797	27931	27848	27837	27692	27516	27476	27289	27289	27291
8	27031	27033	27116	27266	27200	27441	27517	27630	27664	27649	27647	27393	27332	27147	27050	26971	27031
9	26750	26635	26914	26956	26998	27156	27338	27316	27497	27350	27420	27186	27020	26888	26718	26675	26750
10	26340	26377	26548	26638	26674	26846	27021	27078	27178	27148	27062	26911	26715	26591	26377	26389	26340
11	26072	25993	26196	26360	26291	26571	26651	26784	26873	26781	26823	26534	26422	26180	26084	25961	26072
12	25633	25623	25875	25910	26011	26163	26378	26392	26572	26432	26445	26274	26014	25915	25663	25621	25633
13	25248	25255	25392	25617	25552	25849	25963	26102	26126	26139	26091	25881	25718	25466	25329	25217	25248
14	24851	24758	25047	25192	25197	25439	25621	25643	25819	25682	25715	25486	25314	25106	24882	24764	24851
15	24310	24372	24622	24745	24786	24998	25203	25285	25364	25355	25277	25090	24870	24690	24413	24372	24310
16	23889	23874	24126	24324	24287	24617	24671	24837	24911	24904	24879	24595	24494	24147	23978	23818	23889
17	23369	23401	23668	23779	23862	24076	24254	24281	24470	24356	24385	24204	23927	23734	23421	23357	23369
18	22827	22910	23085	23326	23298	23620	23693	23849	23901	23895	23865	23673	23476	23186	22953	22845	22827
19	22269	22235	22539	22748	22722	23014	23183	23298	23387	23299	23392	23114	22946	22667	22431	22207	22269
20	21630	21707	21968	22155	22155	22394	22584	22660	22793	22838	22731	22581	22341	22139	21792	21679	21630
21	21055	21086	21347	21575	21482	21819	21970	22101	22188	22219	22218	21919	21815	21435	21193	21024	21055
22	20413	20444	20740	20964	20904	21135	21331	21407	21622	21583	21581	21383	21151	20884	20513	20381	20413
23	19737	19858	20069	20287	20216	20488	20603	20796	20906	20926	20898	20705	20490	20147	19878	19715	19737
24	19080	19143	19444	19631	19507	19728	19899	20088	20289	20202	20277	20030	19829	19528	19226	18986	19080
25	18367	18514	18743	18903	18781	18994	19228	19365	19527	19589	19558	19337	19082	18864	18479	18339	18367
26	17712	17828	17983	18250	18033	18321	18386	18627	18794	18882	18855	18594	18414	18085	17818	17591	17712
27	17012	17058	17296	17481	17359	17552	17691	17826	18112	18050	18109	17943	17645	17381	17062	16900	17012
28	16247	16385	16599	16764	16617	16825	16902	17126	17310	17342	17352	17214	16990	16648	16337	16267	16247
29	15569	15624	15816	15977	15790	16010	16130	16349	16510	16527	16632	16442	16275	15884	15639	15512	15569

30	14806	14908	15108	15199	15066	15201	15376	15532	15700	15779	15816	15721	15429	15216	14886	14771	14806
31	14086	14184	14331	14500	14269	14482	14569	14706	14875	14988	15056	14830	14728	14458	14211	14028	14086
32	13351	13333	13620	13707	13546	13691	13768	13886	14115	14090	14197	14115	13951	13738	13475	13291	13351
33	12548	12637	12831	12933	12737	12895	12953	13104	13262	13302	13348	13298	13167	12984	12703	12562	12548
34	11826	11883	12072	12159	11938	12038	12138	12290	12467	12466	12575	12479	12406	12175	11983	11785	11826
35	11082	11160	11279	11349	11105	11213	11351	11447	11558	11648	11730	11704	11604	11380	11139	11083	11082
36	10371	10377	10511	10603	10306	10459	10518	10581	10703	10823	10906	10780	10792	10629	10435	10286	10371
37	9684	9635	9799	9818	9585	9688	9714	9780	9921	9984	10019	10016	10030	9918	9720	9581	9684
38	8970	8960	9068	9069	8889	8908	8998	9073	9161	9162	9226	9240	9275	9191	9030	8921	8970
39	8310	8254	8350	8431	8139	8233	8284	8350	8326	8361	8462	8488	8573	8483	8371	8301	8310
40	7687	7678	7716	7743	7546	7601	7676	7672	7656	7664	7747	7830	7872	7862	7746	7709	7687
41	7122	7078	7124	7179	6968	7058	7085	7097	7018	7039	7112	7118	7280	7284	7210	7172	7122
42	6597	6566	6627	6620	6478	6542	6577	6503	6492	6465	6553	6568	6742	6764	6726	6620	6597
43	6130	6115	6154	6129	6028	6075	6067	6029	6009	5945	5995	6087	6227	6250	6237	6186	6130
44	5718	5684	5697	5708	5566	5625	5639	5614	5529	5505	5565	5632	5783	5831	5820	5747	5718
45	5337	5273	5307	5284	5193	5223	5257	5169	5142	5109	5163	5205	5353	5425	5410	5363	5337
46	4973	4923	4925	4924	4827	4881	4877	4825	4764	4753	4794	4832	4981	5019	5049	5020	4973
47	4669	4598	4583	4597	4506	4545	4523	4482	4449	4388	4443	4504	4652	4682	4698	4689	4669
48	4368	4310	4285	4253	4202	4226	4207	4165	4133	4096	4125	4204	4307	4387	4385	4378	4368
49	4092	4039	3995	3989	3901	3933	3919	3896	3833	3826	3870	3922	4037	4087	4112	4089	4092
50	3833	3769	3751	3723	3666	3673	3676	3609	3596	3584	3603	3667	3766	3831	3842	3832	3833
51	3573	3530	3512	3495	3433	3451	3410	3391	3360	3369	3385	3440	3538	3596	3603	3603	3573
52	3368	3317	3305	3291	3234	3240	3209	3184	3174	3147	3196	3236	3337	3351	3397	3379	3368
53	3173	3134	3122	3095	3041	3029	3023	2995	2971	2977	3006	3058	3140	3165	3188	3190	3173
54	3000	2967	2925	2913	2865	2870	2849	2831	2798	2810	2855	2883	2961	2980	2996	3011	3000
55	2847	2800	2781	2755	2726	2712	2701	2656	2654	2662	2700	2728	2796	2824	2831	2831	2847
56	2684	2656	2637	2618	2588	2577	2541	2526	2511	2517	2548	2586	2654	2664	2682	2692	2684
57	2556	2522	2504	2485	2448	2434	2415	2394	2376	2387	2427	2452	2526	2521	2553	2552	2556
58	2429	2400	2372	2347	2328	2307	2293	2273	2260	2275	2301	2339	2387	2408	2412	2432	2429
59	2316	2292	2256	2238	2211	2202	2178	2155	2149	2165	2198	2210	2280	2287	2303	2302	2316
60	2212	2178	2153	2123	2106	2089	2073	2040	2044	2053	2089	2109	2167	2180	2190	2197	2212
61	2097	2075	2051	2024	2004	1992	1959	1948	1945	1951	1977	2006	2063	2069	2085	2103	2097

62	2006	1975	1951	1930	1904	1889	1866	1853	1850	1856	1889	1910	1972	1965	1995	1996	2006
63	1913	1887	1856	1824	1816	1795	1778	1760	1762	1778	1799	1818	1863	1877	1890	1910	1913
64	1824	1799	1762	1739	1721	1713	1690	1675	1669	1689	1716	1723	1783	1788	1805	1812	1824
65	1738	1704	1683	1655	1642	1615	1606	1589	1595	1607	1626	1648	1693	1701	1722	1730	1738
66	1649	1627	1604	1574	1559	1546	1520	1514	1514	1524	1542	1563	1607	1623	1635	1652	1649
67	1572	1547	1522	1497	1476	1460	1446	1435	1436	1444	1474	1482	1531	1537	1563	1568	1572
68	1499	1471	1440	1406	1399	1385	1375	1353	1358	1373	1401	1405	1459	1461	1474	1489	1499
69	1412	1392	1363	1340	1321	1303	1287	1284	1279	1292	1321	1330	1376	1381	1404	1413	1412
70	1335	1313	1295	1264	1252	1225	1217	1207	1214	1215	1249	1260	1302	1309	1332	1336	1335
71	1259	1238	1216	1183	1172	1155	1144	1140	1129	1151	1174	1189	1221	1236	1249	1266	1259
72	1188	1168	1141	1117	1096	1080	1070	1058	1052	1076	1108	1104	1159	1160	1180	1190	1188
73	1110	1089	1071	1038	1022	1003	994	985	980	1001	1021	1038	1077	1089	1105	1113	1110
74	1025	1008	990	961	947	928	914	903	901	919	954	963	1001	1012	1036	1033	1025
75	948	930	914	897	864	847	847	830	825	842	879	880	925	936	955	958	948
76	868	852	834	815	782	769	764	756	752	767	803	808	846	860	880	873	868
77	790	768	762	730	701	694	685	672	678	689	725	729	779	783	807	797	790
78	710	683	680	657	627	610	603	595	606	611	639	656	691	711	727	719	710
79	628	607	596	576	548	534	529	524	533	533	566	578	618	624	642	642	628
80	552	533	525	503	472	458	459	453	447	465	499	505	534	548	560	566	552
81	468	452	453	423	396	385	384	376	381	396	418	424	455	475	488	486	468
82	395	382	380	351	326	318	307	312	311	318	350	360	386	397	419	408	395
83	321	305	301	286	262	249	241	240	246	257	279	291	320	331	340	337	321
84	253	237	232	212	196	185	172	177	183	190	215	220	248	264	267	267	253
85	188	176	163	150	137	124	115	124	132	132	148	149	195	200	198	196	188
86	132	112	104	101	85	70	66	76	81	84	88	100	136	140	133	142	132
87	87	70	55	47	45	34	21	38	42	42	52	58	85	88	76	91	87
88	45	34	28	30	34	31	20	20	17	26	24	27	43	48	43	41	45
89	23	23	23	20	28	24	14	23	23	23	27	16	28	16	25	26	23
90	20	17	24	18	34	25	21	23	20	17	20	18	28	22	18	25	20
91	24	21	24	22	25	21	20	21	20	22	21	16	27	25	20	26	24
92	23	19	21	23	27	22	16	18	17	19	18	19	23	19	23	21	23
93	20	24	23	24	31	22	24	20	21	23	20	20	25	22	16	19	20

94	20	20	21	24	32	23	20	18	22	19	21	14	25	20	20	20	20
95	19	21	22	21	31	27	17	18	15	14	20	12	25	23	22	23	19
96	23	17	17	19	22	18	22	23	18	20	21	20	25	22	22	22	23
97	20	22	20	21	27	22	18	17	22	18	18	11	28	22	22	21	20
98	13	20	22	24	31	22	18	23	19	20	17	18	22	22	20	25	13
99	20	16	20	18	30	23	22	20	17	22	17	24	28	22	20	20	20
100	23	22	24	21	28	22	24	22	14	22	24	20	28	23	23	23	23
101	17	8	21	20	34	24	25	20	20	14	18	19	23	22	23	23	17
102	21	17	20	20	31	24	22	20	20	14	17	19	28	22	20	19	21
103	19	16	21	19	32	25	22	23	20	19	19	21	28	25	24	22	19
104	23	19	25	23	31	25	20	21	20	19	23	17	18	25	15	23	23
105	22	22	24	17	34	25	24	20	18	20	15	15	26	22	24	24	22
106	21	17	15	24	31	22	24	21	18	14	20	18	26	20	20	17	21
107	14	20	19	24	27	26	20	18	20	11	20	17	19	25	22	23	14
108	14	24	20	18	28	28	20	19	21	15	20	17	26	19	20	23	14
109	24	18	22	19	20	25	22	24	17	20	21	20	25	23	23	23	24
110	20	17	20	24	34	26	20	20	20	21	14	20	25	21	24	25	20
111	23	20	17	21	31	18	21	21	18	20	23	21	28	24	22	22	23
112	20	20	23	22	27	19	22	20	23	15	17	15	30	19	16	25	20
113	23	14	18	16	33	26	22	22	19	20	24	20	25	18	25	21	23
114	14	20	20	19	29	26	20	20	17	23	23	19	23	21	22	22	14
115	19	17	18	23	29	22	22	20	8	19	22	21	22	23	22	20	19
116	17	21	21	21	30	24	23	19	24	24	21	21	27	25	25	23	17
117	17	17	20	17	28	24	23	24	23	17	23	23	25	22	26	25	17
118	21	20	23	24	34	23	20	18	20	17	20	20	28	15	21	23	21
119	23	23	20	26	31	17	23	23	22	19	18	24	26	25	22	22	23
120	21	23	25	22	35	28	20	27	18	23	25	20	28	22	24	24	21
121	26	21	21	22	34	24	23	19	26	20	24	24	27	25	26	23	26
122	21	20	26	21	34	24	25	25	20	22	17	22	28	22	26	14	21
123	22	21	22	17	31	27	23	25	24	16	20	20	28	24	22	21	22
124	26	24	26	23	32	25	22	24	25	21	16	19	22	23	23	20	26
125	24	23	23	25	33	28	26	26	23	23	23	19	29	25	23	23	24

126	20	20	27	24	35	28	18	21	18	23	27	25	30	30	27	24	20
127	22	22	23	24	37	29	17	23	22	24	20	20	29	27	15	27	22
128	21	29	27	27	32	29	19	27	27	24	14	26	34	22	22	25	21
129	23	24	24	24	34	31	24	23	24	24	24	22	33	29	20	25	23
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131	24	24	28	28	34	27	19	29	26	32	28	16	37	25	26	26	24
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136	33	34	31	30	45	37	31	32	39	32	27	28	37	35	36	34	33
137	21	34	31	32	44	36	37	35	34	26	37	30	39	29	35	37	21
138	33	36	24	27	45	38	37	32	39	35	36	29	26	34	33	38	33
139	34	39	29	33	47	45	37	38	33	39	36	38	42	37	37	36	34
140	38	39	41	39	46	40	31	43	41	34	37	37	48	29	40	42	38
141	39	43	35	41	57	46	45	36	42	38	42	36	47	41	43	45	39
142	45	44	44	40	48	46	46	38	39	39	41	37	40	40	47	43	45
143	40	45	41	41	52	48	46	46	44	32	43	42	51	46	41	44	40
144	24	44	45	42	55	48	49	40	42	36	42	42	50	51	34	46	24
145	41	46	44	47	54	48	35	47	41	39	46	46	50	45	45	47	41
146	50	48	40	46	58	49	50	41	43	45	47	41	52	37	49	48	50
147	48	49	51	42	57	50	50	45	45	44	52	46	50	48	53	37	48
148	44	49	50	51	54	50	46	50	44	46	46	45	51	44	52	53	44
149	45	55	43	52	63	57	53	50	44	50	46	50	61	57	55	50	45
150	51	54	49	52	61	54	51	43	46	50	47	46	59	55	58	54	51
151	54	45	59	55	64	59	40	54	50	54	54	52	60	50	50	53	54
152	60	57	56	52	63	59	54	53	47	57	59	52	60	59	53	50	60
153	58	51	55	58	71	64	57	54	59	56	47	52	63	60	61	62	58
154	60	56	47	60	60	53	61	46	56	48	55	57	59	61	61	58	60
155	57	56	59	60	60	66	59	59	57	57	60	55	67	66	62	62	57
156	64	62	65	58	68	60	62	56	64	53	60	55	67	56	57	50	64
157	65	62	63	57	74	69	58	60	61	58	59	64	69	53	63	65	65

158	65	68	66	64	77	60	62	62	47	60	59	61	67	67	61	65	65
159	67	67	65	48	80	67	60	66	68	60	67	58	71	72	61	67	67
160	67	73	68	63	79	68	70	65	67	69	64	61	74	71	63	65	67
161	66	73	71	60	87	71	70	71	67	67	71	67	72	72	71	64	66
162	70	67	71	57	78	68	71	69	60	65	71	68	75	73	72	72	70
163	73	67	71	68	83	76	73	69	67	70	71	69	77	70	71	74	73
164	73	75	68	73	86	74	73	71	71	70	73	75	77	67	73	76	73
165	73	72	71	74	86	82	72	74	76	72	79	61	80	77	71	73	73
166	73	75	74	68	89	82	77	77	74	72	80	76	81	75	76	74	73
167	68	75	78	74	86	83	77	78	73	79	77	78	83	74	76	73	68
168	76	77	74	72	85	82	79	78	82	76	80	79	83	77	74	74	76
169	76	76	80	74	92	82	80	77	83	79	77	79	80	79	77	76	76
170	79	73	77	80	91	85	87	80	76	79	80	78	80	78	75	74	79
171	78	79	75	76	93	89	78	79	79	81	85	83	83	79	82	80	78
172	80	74	80	75	91	85	83	82	79	83	80	83	83	79	74	77	80
173	77	79	71	76	95	87	81	83	76	79	80	82	80	78	76	71	77
174	79	79	79	77	93	87	78	83	79	79	79	83	84	83	83	79	79
175	76	82	77	72	93	88	85	85	77	78	86	84	83	82	79	74	76
176	80	75	81	74	95	84	79	77	78	78	79	81	81	76	79	81	80
177	82	79	77	77	98	77	83	80	76	78	84	78	79	80	76	75	82
178	81	73	74	74	94	82	79	81	77	83	79	77	79	82	76	79	81
179	77	70	79	80	89	82	78	82	79	74	80	78	85	78	84	78	77
180	79	79	77	77	93	75	80	81	75	79	80	77	75	80	81	74	79

UGR

UGR Table - Corrected

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	22.8	24.1	23.2	24.4	24.8	22.6	23.8	23.0	24.2	24.5
	3H	24.4	25.5	24.8	25.9	26.3	24.1	25.2	24.5	25.6	26.0
	4H	25.1	26.1	25.5	26.5	26.9	24.7	25.7	25.1	26.1	26.5
	6H	25.5	26.4	25.9	26.8	27.3	25.1	26.0	25.5	26.4	26.8
	8H	25.6	26.5	26.1	26.9	27.3	25.1	26.0	25.6	26.5	26.9
	12H	25.6	26.5	26.1	26.9	27.4	25.2	26.0	25.6	26.4	26.9
4H	2H	23.3	24.3	23.7	24.7	25.1	23.1	24.1	23.5	24.5	24.9
	3H	25.1	26.0	25.6	26.4	26.8	24.8	25.7	25.2	26.1	26.5
	4H	25.9	26.7	26.4	27.1	27.6	25.5	26.3	26.0	26.7	27.2
	6H	26.5	27.1	27.0	27.6	28.1	26.0	26.7	26.5	27.1	27.6
	8H	26.6	27.2	27.1	27.7	28.2	26.1	26.7	26.6	27.2	27.7
	12H	26.7	27.2	27.2	27.7	28.2	26.1	26.7	26.7	27.2	27.7
8H	4H	26.1	26.8	26.6	27.2	27.7	25.8	26.4	26.2	26.8	27.3
	6H	26.8	27.3	27.3	27.8	28.3	26.3	26.8	26.9	27.4	27.9
	8H	27.0	27.5	27.6	28.0	28.5	26.5	26.9	27.1	27.5	28.0
	12H	27.1	27.5	27.7	28.1	28.6	26.6	27.0	27.1	27.5	28.1
12H	4H	26.1	26.7	26.6	27.2	27.7	25.7	26.3	26.3	26.8	27.3
	6H	26.9	27.3	27.4	27.8	28.4	26.4	26.8	26.9	27.3	27.9
	8H	27.1	27.5	27.6	28.0	28.6	26.6	26.9	27.1	27.5	28.1

Maximum UGR = 28.6

2.2 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2025-05-09	Test Ambient:	25.2 ° C
Test Orientation	Horizontal	Stabilization Time (min)	90
Model Number	BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD	Operation time(min)	110

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
UTU250500 5E-L 1	120.0	60	1.885	226.01	0.999	4.28
	277.0	60	0.831	221.85	0.964	4.54
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

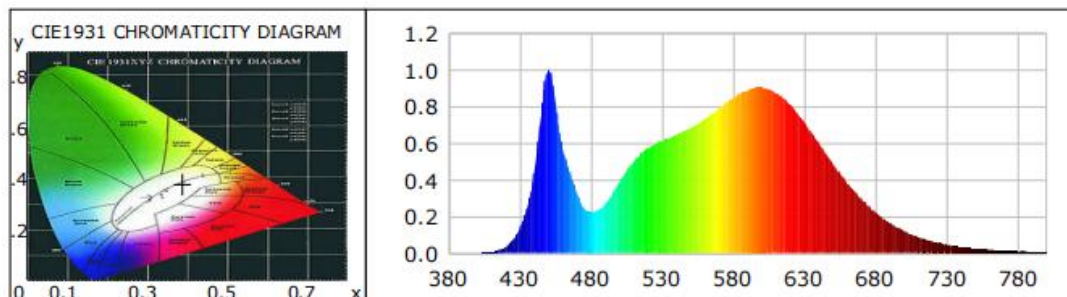
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	84	R9	16
Frequency (Hz)	60	R2	90	R10	76
CCT (K)	3812	R3	95	R11	83
Duv	-0.0026	R4	84	R12	65
Chromaticity (x, y)	x=0.387 y=0.3751	R5	83	R13	85
Chromaticity (u', v')	u'=0.2301 v'=0.5018	R6	86	R14	97
Color Rendering Index (CRI)	84	R7	86	R15	78
R9	16	R8	66	--	--
Rf	84	--	--	--	--
Rg	97	--	--	--	--
Rcs,h1(%)	-11				

Photometric Measurement – Sphere-Spectroradiometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	36979.7	37071	>=10000(-10%)
Luminous Efficacy (lm/W)	163.62	167.1	Premium: >= 135(-3%)
Most worst Luminous/Highest Watts	163.62		

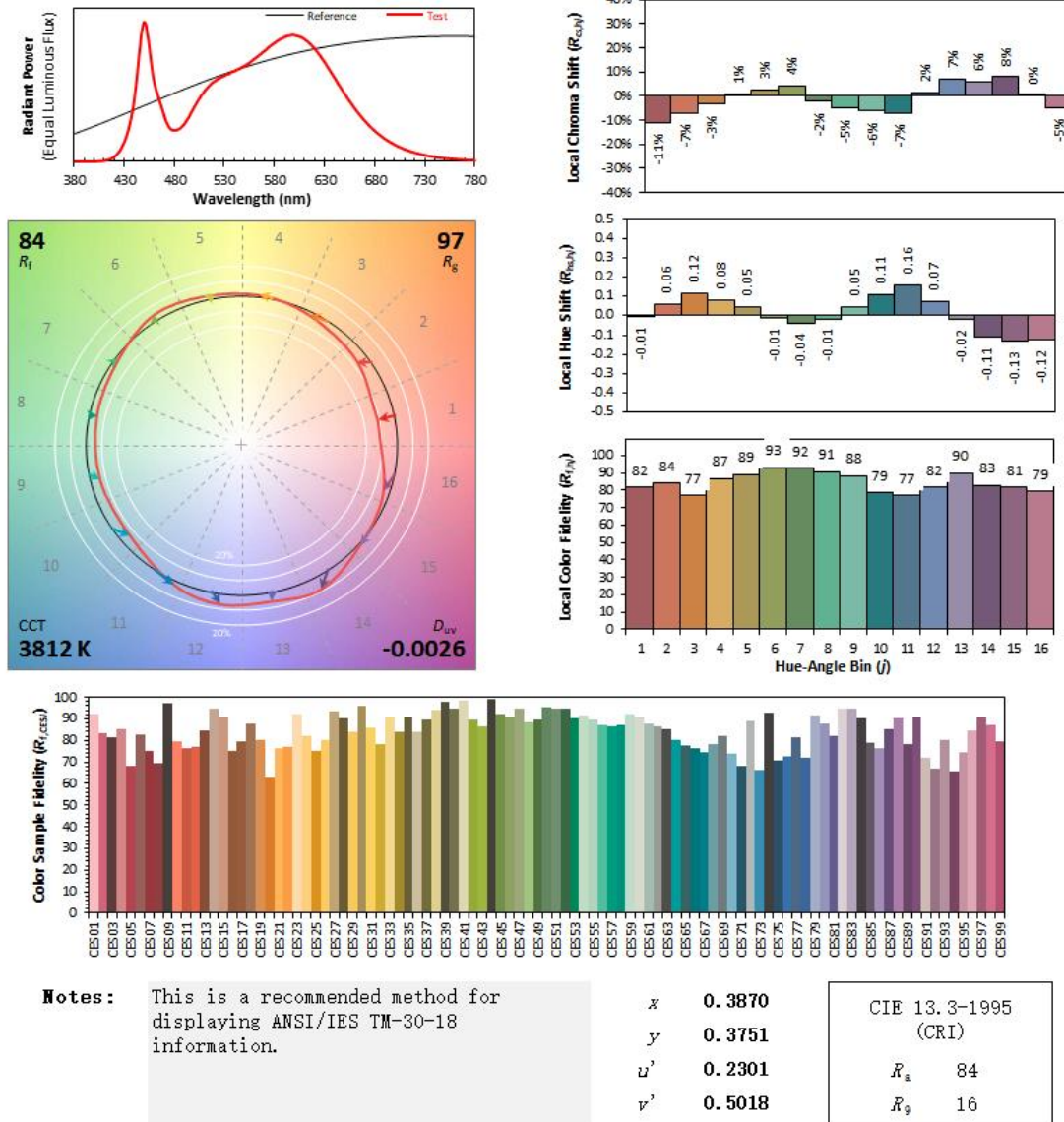
Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0006	0.3756	535	0.5962	401.1650	690	0.2936	197.5550
385	0.0006	0.4251	540	0.6129	412.4124	695	0.2550	171.5763
390	0.0006	0.3773	545	0.6294	423.5219	700	0.2213	148.8731
395	0.0003	0.1987	550	0.6483	436.2263	705	0.1920	129.1924
400	0.0011	0.7109	555	0.6634	446.3743	710	0.1641	110.4399
405	0.0024	1.6013	560	0.6846	460.6175	715	0.1410	94.8469
410	0.0061	4.0782	565	0.7071	475.8130	720	0.1210	81.4469
415	0.0151	10.1542	570	0.7351	494.6057	725	0.1034	69.5915
420	0.0336	22.6421	575	0.7632	513.5479	730	0.0879	59.1461
425	0.0695	46.7958	580	0.7910	532.2703	735	0.0752	50.5966
430	0.1351	90.9327	585	0.8238	554.3136	740	0.0638	42.9083
435	0.2463	165.7281	590	0.8502	572.0557	745	0.0545	36.6652
440	0.4349	292.6147	595	0.8731	587.4976	750	0.0466	31.3426
445	0.7623	512.9124	600	0.8922	600.3300	755	0.0393	26.4114
450	1.0000	672.8696	605	0.9017	606.7203	760	0.0339	22.7975
455	0.8295	558.1388	610	0.9058	609.4639	765	0.0283	19.0736
460	0.5737	386.0531	615	0.8947	602.0273	770	0.0255	17.1754
465	0.4458	299.9530	620	0.8771	590.1674	775	0.0208	13.9713
470	0.3293	221.5523	625	0.8473	570.1427	780	0.0173	11.6226
475	0.2467	165.9875	630	0.8107	545.5117	785	0.0152	10.1953
480	0.2238	150.5971	635	0.7642	514.2232	790	0.0136	9.1377
485	0.2343	157.6826	640	0.7122	479.2020	795	0.0114	7.6486
490	0.2679	180.2392	645	0.6573	442.2452	800	0.0084	5.6733
495	0.3239	217.9437	650	0.6006	404.0999			
500	0.3895	262.1156	655	0.5428	365.2656			
505	0.4498	302.6410	660	0.4866	327.3963			
510	0.5019	337.6943	665	0.4330	291.3860			
515	0.5433	365.5904	670	0.3818	256.9061			
520	0.5720	384.8761	675	0.3368	226.6057			
525	0.5962	401.1650	680	0.2936	197.5550			
530	0.6129	412.4124	685	0.2550	171.5763			

TM30

ANSI/IES TM-30-18 Color Rendition Report



Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

2.3 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2025-05-09	Test Ambient:	25.2 ° C
Test Orientation	Horizontal	Stabilization Time (min)	90
Model Number	BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD	Operation time(min)	110

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
UTU250500 5E-L 1	120.0	60	1.971	236.26	0.999	4.15
	277.0	60	0.853	228.11	0.965	4.33
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

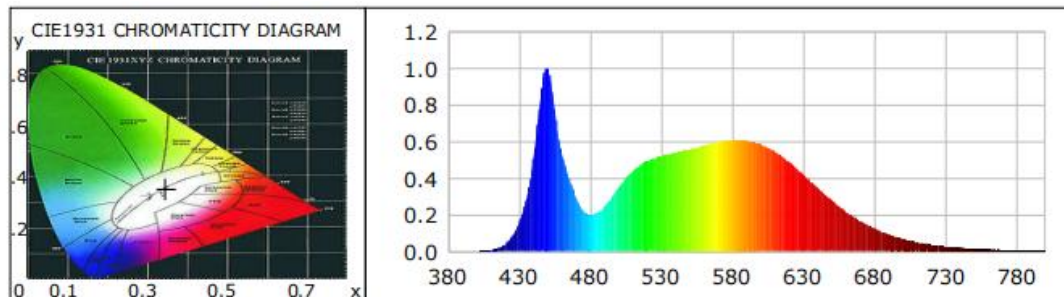
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	80	R9	6
Frequency (Hz)	60	R2	87	R10	68
CCT (K)	4953	R3	91	R11	81
Duv	0.0011	R4	82	R12	56
Chromaticity (x, y)	x=0.3467 y=0.3551	R5	81	R13	82
Chromaticity (u', v')	u'=0.2112 v'=0.4866	R6	81	R14	95
Color Rendering Index (CRI)	82	R7	87	R15	75
R9	6	R8	67	--	--
Rf	82	--	--	--	--
Rg	97	--	--	--	--
Rcs,h1(%)	-12				

Photometric Measurement – Sphere-Spectroradiometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	36725.2	36311.2	>=10000(-10%)
Luminous Efficacy (lm/W)	155.44	159.18	Premium: >= 135(-3%)
Most worst Luminous/Highest Watts	153.69		

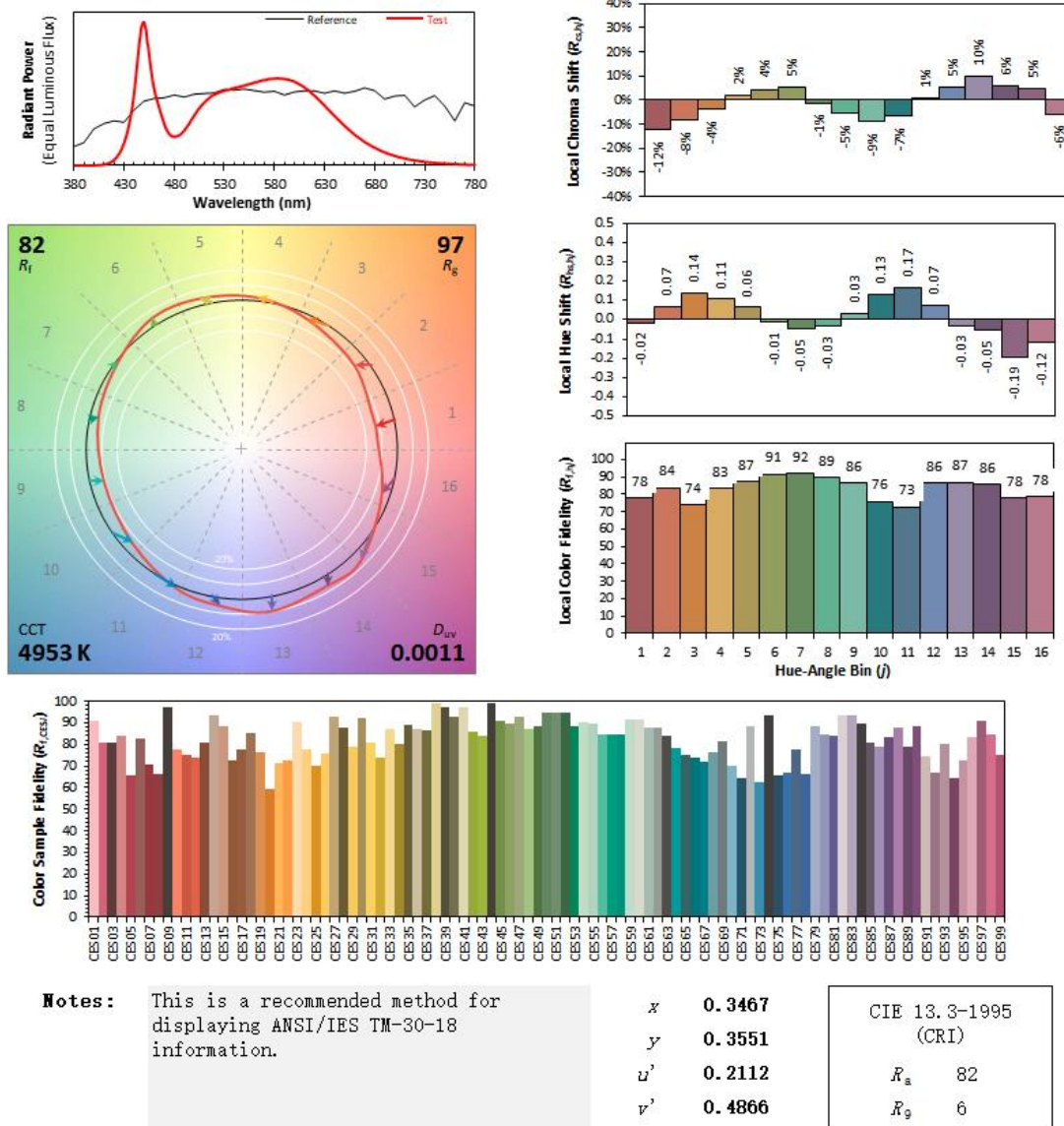
Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0008	0.6675	535	0.5100	451.2480	690	0.1654	146.3792
385	0.0007	0.5862	540	0.5225	462.3123	695	0.1437	127.1128
390	0.0009	0.7641	545	0.5300	468.9625	700	0.1248	110.4469
395	0.0005	0.4144	550	0.5415	479.0728	705	0.1072	94.8761
400	0.0012	1.0760	555	0.5491	485.7999	710	0.0925	81.8155
405	0.0031	2.7205	560	0.5576	493.3248	715	0.0794	70.2180
410	0.0071	6.2604	565	0.5675	502.1410	720	0.0677	59.8612
415	0.0170	15.0282	570	0.5794	512.6520	725	0.0583	51.5670
420	0.0383	33.8803	575	0.5884	520.5979	730	0.0499	44.1616
425	0.0807	71.4239	580	0.5964	527.6827	735	0.0426	37.7338
430	0.1570	138.9462	585	0.6052	535.4480	740	0.0359	31.7652
435	0.2869	253.8061	590	0.6073	537.2972	745	0.0307	27.1237
440	0.5045	446.3362	595	0.6076	537.6118	750	0.0262	23.1393
445	0.8428	745.6629	600	0.6053	535.5296	755	0.0225	19.8714
450	1.0000	884.7445	605	0.5958	527.1910	760	0.0191	16.8739
455	0.7750	685.7057	610	0.5860	518.5152	765	0.0162	14.3646
460	0.5364	474.6136	615	0.5665	501.1950	770	0.0145	12.8674
465	0.4051	358.4003	620	0.5459	483.0429	775	0.0116	10.2547
470	0.2921	258.4569	625	0.5187	458.9302	780	0.0102	9.0425
475	0.2214	195.8768	630	0.4887	432.3886	785	0.0081	7.1274
480	0.2024	179.1206	635	0.4550	402.6168	790	0.0083	7.3723
485	0.2119	187.5034	640	0.4190	370.7045	795	0.0059	5.1813
490	0.2441	215.9664	645	0.3829	338.7634	800	0.0063	5.6022
495	0.2932	259.4585	650	0.3473	307.3200			
500	0.3491	308.8433	655	0.3127	276.6799			
505	0.3983	352.4255	660	0.2784	246.3058			
510	0.4396	388.9903	665	0.2466	218.1621			
515	0.4722	417.8109	670	0.2159	191.0019			
520	0.4924	435.6665	675	0.1902	168.2986			
525	0.5100	451.2480	680	0.1654	146.3792			
530	0.5225	462.3123	685	0.1437	127.1128			

TM30

ANSI/IES TM-30-18 Color Rendition Report



Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

2.4 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2025-05-09	Test Ambient:	25.2 ° C
Test Orientation	Horizontal	Stabilization Time (min)	90
Model Number	BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD	Operation time(min)	110

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
UTU250500 5E-L 1	120.0	60	1.899	227.71	0.999	3.77
	277.0	60	0.828	220.52	0.962	4.67
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

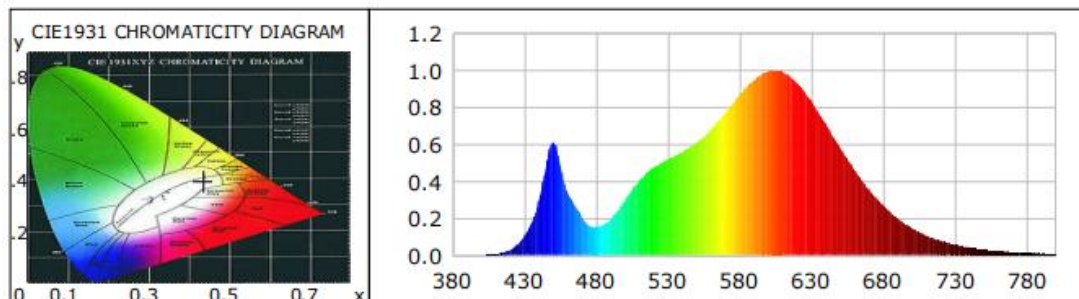
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	7
Frequency (Hz)	60	R2	90	R10	77
CCT (K)	3020	R3	96	R11	81
Duv	-0.0016	R4	81	R12	70
Chromaticity (x, y)	x=0.4332 y=0.3988	R5	81	R13	83
Chromaticity (u', v')	u'=0.2504 v'=0.5188	R6	88	R14	98
Color Rendering Index (CRI)	82	R7	83	R15	74
R9	7	R8	59	--	--
Rf	84	--	--	--	--
Rg	98	--	--	--	--
Rcs,h1(%)	-11				

Photometric Measurement – Goniophotometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	37248.6	36901.1	>=10000(-10%)
Luminous Efficacy (lm/W)	163.58	167.34	Premium: >= 135(-3%)
Most worst Luminous/Highest	162.05		
Zonal lumens in the 20-50° zone (%)	60.0	--	>=30(-10%)
Beam Angle (°)	75.5	--	--
Center Beam Candle Power (cd)	23065	--	--

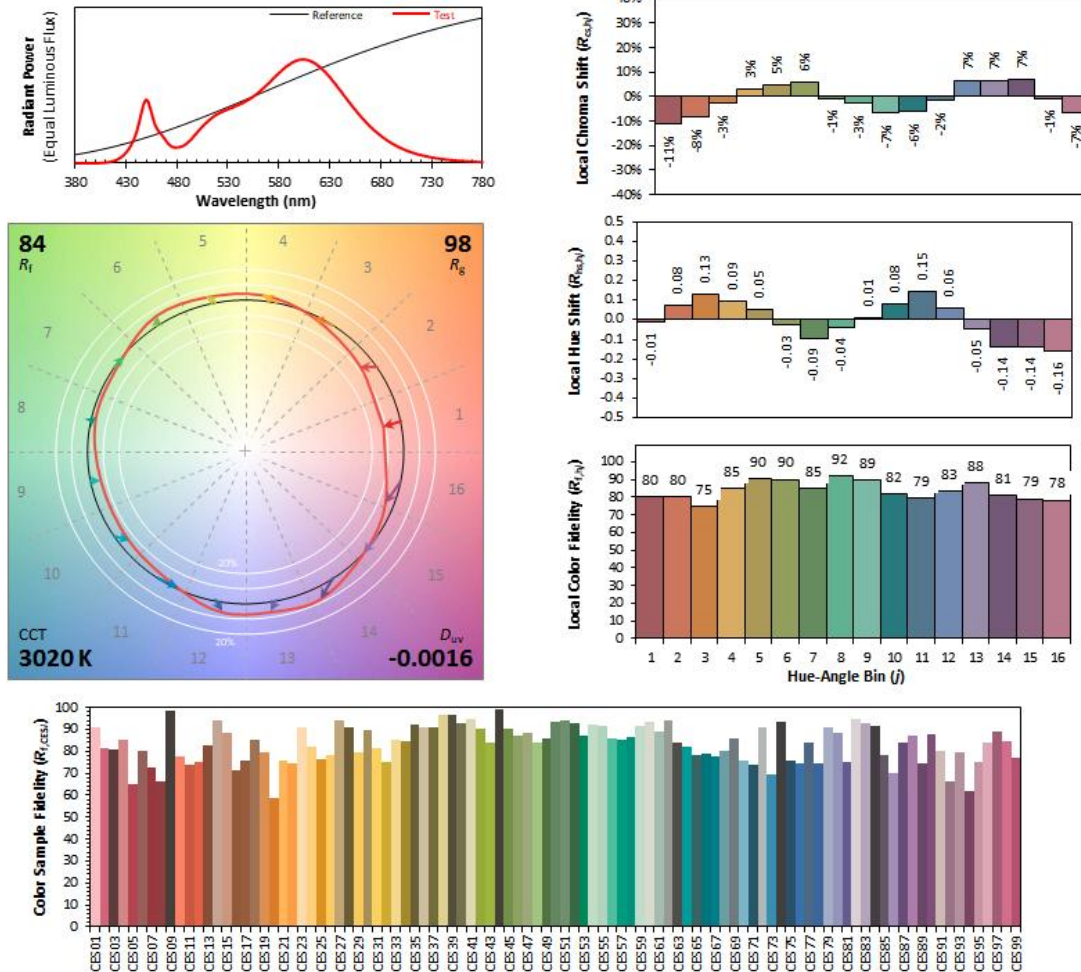
Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0447	535	0.4993	321.8208	690	0.3512	226.3526
385	0.0005	0.3267	540	0.5184	334.1470	695	0.3077	198.3546
390	0.0007	0.4400	545	0.5381	346.8054	700	0.2664	171.7068
395	0.0002	0.1412	550	0.5609	361.5029	705	0.2303	148.4152
400	0.0011	0.7103	555	0.5831	375.8167	710	0.1982	127.7213
405	0.0020	1.3161	560	0.6104	393.4506	715	0.1700	109.5574
410	0.0063	4.0423	565	0.6428	414.3162	720	0.1455	93.7694
415	0.0141	9.0703	570	0.6817	439.4019	725	0.1253	80.7542
420	0.0290	18.6970	575	0.7250	467.3003	730	0.1067	68.7757
425	0.0566	36.4637	580	0.7698	496.1819	735	0.0907	58.4316
430	0.1032	66.5116	585	0.8209	529.1062	740	0.0777	50.0530
435	0.1763	113.6208	590	0.8690	560.1205	745	0.0662	42.6731
440	0.2916	187.9295	595	0.9121	587.8731	750	0.0564	36.3520
445	0.4823	310.8554	600	0.9504	612.5777	755	0.0474	30.5407
450	0.6124	394.7405	605	0.9774	629.9500	760	0.0405	26.1085
455	0.4861	313.3020	610	0.9966	642.3415	765	0.0342	22.0139
460	0.3397	218.9596	615	0.9977	643.0310	770	0.0301	19.4268
465	0.2739	176.5196	620	0.9903	638.2788	775	0.0259	16.6740
470	0.2057	132.6103	625	0.9675	623.5695	780	0.0213	13.7155
475	0.1606	103.5114	630	0.9312	600.2210	785	0.0178	11.4731
480	0.1526	98.3875	635	0.8854	570.6612	790	0.0155	9.9870
485	0.1632	105.1945	640	0.8304	535.2002	795	0.0124	8.0148
490	0.1938	124.8876	645	0.7699	496.2164	800	0.0113	7.2608
495	0.2419	155.8820	650	0.7070	455.6582			
500	0.2981	192.1392	655	0.6420	413.8151			
505	0.3532	227.6546	660	0.5779	372.4730			
510	0.4023	259.2740	665	0.5162	332.7339			
515	0.4429	285.4584	670	0.4576	294.9660			
520	0.4734	305.1456	675	0.4021	259.1949			
525	0.4993	321.8208	680	0.3512	226.3526			
530	0.5184	334.1470	685	0.3077	198.3546			

TM30

ANSI/IES TM-30-18 Color Rendition Report



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4332
 y 0.3988
 u' 0.2504
 v' 0.5188

CIE 13.3-1995
(CRI)

R_a 82
 R_g 7

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

Zonal Lumen Tabulation

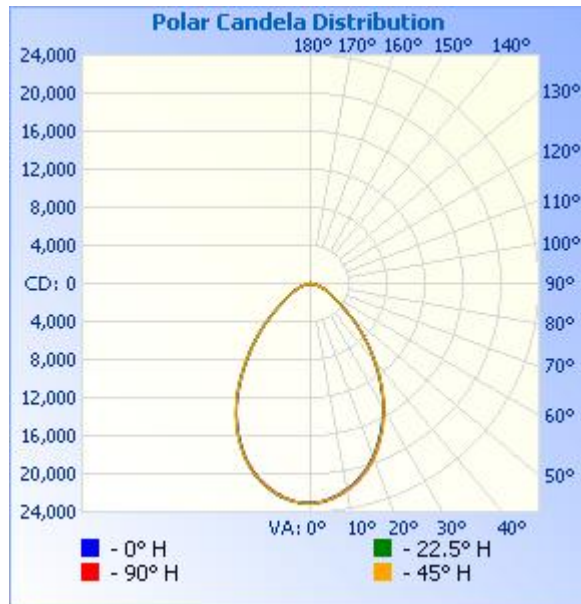
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	16,139.0	43.3%	43.3%
0-40	24,225.0	65%	65%
0-60	33,918.8	91.1%	91.1%
60-90	3,153.8	8.5%	8.5%
70-100	1,222.3	3.3%	3.3%
90-120	53.6	0.1%	0.1%
0-90	37,072.6	99.5%	99.5%
90-180	169.9	0.5%	0.5%
0-180	37,242.5	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2,153.6	5.8%	90-100	17.9	0%
10-20	5,899.0	15.8%	100-110	17.8	0%
20-30	8,086.4	21.7%	110-120	17.8	0%
30-40	8,086.0	21.7%	120-130	18.9	0.1%
40-50	6,164.2	16.6%	130-140	22.5	0.1%
50-60	3,529.6	9.5%	140-150	26.5	0.1%
60-70	1,949.4	5.2%	150-160	24.5	0.1%
70-80	990.0	2.7%	160-170	17.5	0%
80-90	214.4	0.6%	170-180	6.4	0%

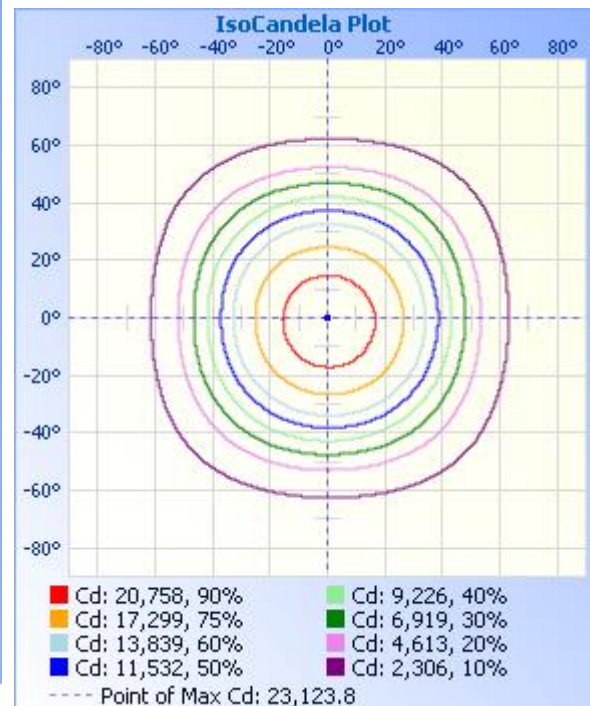
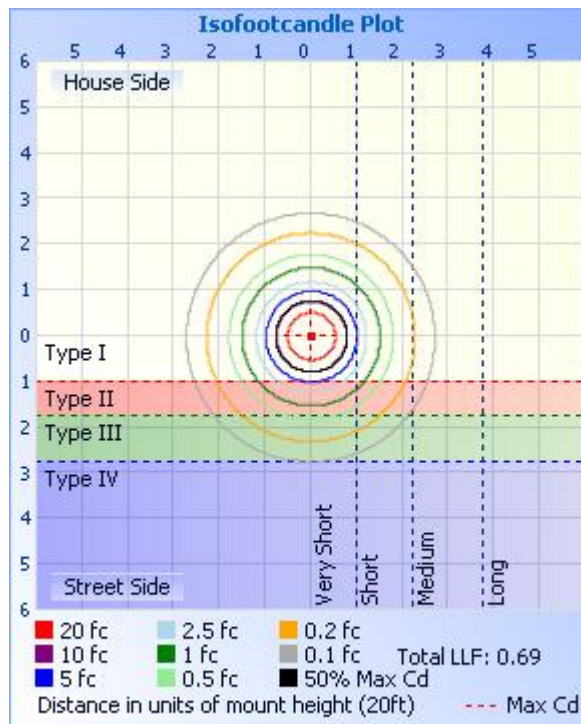
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	79.8 fc	26.3 ft	26.4 ft
34.0ft	20.0 fc	52.6 ft	52.8 ft
51.0ft	8.87 fc	78.9 ft	79.2 ft
68.0ft	4.99 fc	105.2 ft	105.6 ft
85.0ft	3.19 fc	131.5 ft	132.0 ft
102.0ft	2.22 fc	157.8 ft	158.4 ft

■ Vert. Spread: 75.5°
■ Horiz. Spread: 75.7°



Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065	23065
1	22980	23056	23063	22982	23092	23014	23058	23124	23010	23113	23047	23025	23081	23050	22983	23088	22980
2	22971	23025	22942	23009	22997	23042	23004	23100	23070	23034	23076	23003	23075	22950	23009	22983	22971
3	22912	22891	22938	22926	23016	22923	23028	23030	23022	23072	22969	22986	22953	22968	22881	22960	22912
4	22745	22878	22818	22823	22912	22910	22894	23039	22928	22990	22991	22854	22971	22851	22828	22873	22745
5	22711	22721	22733	22779	22777	22832	22882	22913	22926	22879	22898	22839	22833	22779	22751	22687	22711
6	22528	22604	22643	22596	22715	22664	22767	22836	22790	22843	22775	22722	22721	22679	22550	22631	22528
7	22412	22491	22439	22523	22507	22601	22614	22731	22704	22676	22727	22585	22623	22467	22453	22447	22412
8	22277	22260	22350	22366	22418	22411	22519	22551	22582	22601	22517	22479	22414	22388	22279	22308	22277
9	22043	22138	22175	22167	22249	22291	22348	22465	22384	22469	22444	22255	22319	22177	22116	22161	22043
10	21925	21931	21970	22061	22034	22150	22182	22258	22278	22247	22266	22173	22136	22019	21964	21915	21925
11	21699	21729	21829	21791	21909	21895	22024	22081	22071	22120	22044	21967	21942	21860	21690	21777	21699
12	21478	21573	21556	21638	21632	21759	21774	21915	21874	21879	21903	21752	21775	21600	21555	21514	21478
13	21283	21277	21395	21456	21473	21521	21645	21636	21671	21697	21645	21581	21502	21433	21290	21306	21283
14	20973	21094	21132	21159	21242	21304	21353	21475	21407	21501	21456	21306	21340	21184	21061	21107	20973
15	20771	20861	20866	20990	20948	21085	21136	21205	21226	21215	21241	21133	21099	20940	20860	20789	20771
16	20495	20529	20647	20691	20748	20793	20887	20951	20946	21035	20930	20888	20815	20725	20533	20570	20495
17	20203	20312	20322	20438	20404	20538	20553	20710	20657	20696	20720	20578	20608	20388	20298	20271	20203
18	19923	19941	20054	20153	20137	20227	20321	20357	20399	20409	20396	20347	20241	20133	19975	19951	19923
19	19538	19662	19741	19774	19823	19906	19986	20092	20021	20136	20117	19965	19979	19837	19659	19658	19538
20	19244	19312	19350	19510	19443	19605	19615	19746	19761	19765	19790	19691	19671	19479	19379	19279	19244
21	18894	18934	19042	19130	19147	19197	19286	19372	19398	19490	19402	19349	19288	19162	18944	18975	18894
22	18491	18617	18643	18793	18757	18856	18866	19047	19014	19071	19107	18964	18992	18768	18626	18617	18491
23	18134	18202	18299	18412	18367	18425	18540	18596	18673	18680	18698	18653	18548	18441	18249	18167	18134
24	17712	17852	17937	17986	17965	18012	18115	18253	18187	18318	18309	18253	18192	18061	17833	17819	17712
25	17351	17477	17491	17626	17505	17650	17678	17801	17849	17884	17947	17828	17811	17609	17486	17373	17351
26	16941	16971	17134	17179	17149	17137	17256	17354	17421	17497	17449	17452	17359	17242	17032	17013	16941
27	16520	16611	16688	16782	16713	16766	16776	16957	16966	17040	17080	16981	16999	16776	16608	16605	16520

28	16137	16150	16265	16371	16222	16310	16380	16476	16580	16590	16638	16615	16504	16358	16234	16133	16137
29	15681	15733	15852	15883	15802	15834	15911	16058	16032	16174	16177	16094	16098	15940	15713	15763	15681
30	15252	15310	15319	15465	15300	15403	15417	15584	15612	15658	15736	15641	15663	15466	15334	15249	15252
31	14822	14810	14905	14956	14880	14890	14991	15034	15123	15229	15178	15198	15161	15069	14865	14840	14822
32	14272	14398	14416	14456	14390	14421	14431	14592	14616	14683	14745	14687	14734	14589	14426	14395	14272
33	13844	13894	13957	14004	13833	13912	13973	14058	14147	14162	14229	14241	14218	14102	13954	13874	13844
34	13357	13427	13486	13469	13371	13383	13467	13578	13550	13679	13703	13722	13718	13637	13419	13426	13357
35	12871	12922	12964	12996	12812	12904	12918	13066	13050	13118	13209	13139	13237	13059	13009	12900	12871
36	12377	12395	12442	12508	12328	12353	12424	12436	12505	12610	12570	12634	12653	12602	12455	12403	12377
37	11858	11926	11943	11957	11801	11812	11836	11956	11948	12012	12068	12064	12167	12096	11959	11922	11858
38	11392	11417	11394	11460	11235	11311	11352	11418	11402	11445	11511	11565	11623	11567	11483	11380	11392
39	10881	10867	10895	10912	10762	10785	10853	10906	10842	10925	10937	11017	11088	11074	10967	10954	10881
40	10384	10394	10360	10399	10245	10336	10338	10427	10348	10367	10435	10427	10583	10540	10518	10463	10384
41	9933	9895	9895	9927	9792	9828	9891	9864	9855	9877	9895	9931	10044	10079	10053	9970	9933
42	9396	9443	9432	9429	9303	9359	9396	9415	9331	9380	9359	9404	9561	9616	9535	9502	9396
43	8982	8993	8944	8953	8838	8882	8917	8937	8916	8860	8907	8974	9101	9147	9120	9038	8982
44	8505	8486	8491	8518	8355	8405	8461	8479	8398	8425	8431	8450	8595	8666	8612	8583	8505
45	8019	8032	8002	8033	7877	7965	7974	7980	7939	7951	7944	7976	8144	8168	8143	8112	8019
46	7573	7555	7532	7549	7423	7479	7481	7494	7489	7496	7467	7529	7665	7711	7668	7629	7573
47	7109	7071	7093	7083	6963	6967	7006	7054	7012	7010	7031	7059	7179	7217	7189	7193	7109
48	6677	6634	6591	6654	6480	6504	6532	6579	6575	6536	6578	6615	6738	6735	6755	6726	6677
49	6191	6165	6165	6207	6010	6041	6093	6124	6086	6124	6130	6134	6268	6291	6287	6276	6191
50	5769	5742	5715	5746	5572	5626	5597	5653	5658	5692	5688	5702	5836	5829	5835	5827	5769
51	5321	5322	5293	5302	5161	5153	5188	5217	5250	5238	5263	5300	5387	5406	5410	5348	5321
52	4919	4893	4919	4897	4771	4757	4786	4839	4848	4855	4877	4897	4950	4970	4956	4967	4919
53	4565	4532	4538	4534	4355	4393	4413	4468	4458	4477	4510	4526	4591	4583	4592	4592	4565
54	4232	4181	4160	4187	4031	4042	4082	4121	4116	4150	4158	4188	4241	4249	4239	4248	4232
55	3874	3878	3844	3852	3718	3749	3760	3792	3806	3840	3833	3839	3908	3929	3931	3906	3874
56	3627	3594	3555	3548	3446	3442	3474	3501	3535	3536	3555	3570	3611	3645	3628	3617	3627
57	3341	3329	3301	3278	3182	3196	3222	3259	3246	3285	3305	3315	3371	3369	3361	3372	3341
58	3119	3094	3049	3059	2960	2978	2988	3027	3028	3052	3079	3090	3122	3131	3145	3142	3119
59	2921	2886	2855	2861	2776	2775	2799	2803	2827	2858	2872	2871	2916	2936	2937	2939	2921

60	2732	2707	2671	2668	2593	2601	2607	2626	2634	2668	2690	2679	2747	2748	2756	2759	2732
61	2570	2544	2500	2495	2433	2421	2434	2449	2475	2486	2506	2524	2555	2579	2578	2571	2570
62	2402	2375	2357	2335	2278	2274	2285	2304	2298	2337	2350	2356	2410	2419	2414	2421	2402
63	2260	2237	2198	2196	2132	2139	2137	2146	2165	2189	2202	2217	2260	2263	2281	2279	2260
64	2128	2096	2071	2068	2004	2003	2013	2009	2028	2056	2064	2087	2124	2137	2145	2129	2128
65	1988	1979	1947	1921	1883	1869	1865	1885	1899	1915	1943	1955	1993	2000	2009	2009	1988
66	1878	1863	1827	1809	1747	1748	1754	1764	1784	1794	1816	1835	1873	1877	1892	1884	1878
67	1762	1741	1715	1689	1639	1634	1641	1653	1648	1685	1700	1721	1751	1766	1770	1771	1762
68	1645	1627	1601	1584	1532	1536	1522	1533	1547	1572	1586	1605	1644	1649	1662	1658	1645
69	1547	1526	1499	1478	1439	1425	1425	1433	1441	1464	1478	1507	1536	1548	1558	1547	1547
70	1434	1430	1407	1375	1341	1330	1318	1337	1340	1361	1386	1405	1433	1444	1449	1453	1434
71	1345	1323	1297	1287	1237	1238	1231	1239	1241	1265	1291	1297	1332	1345	1360	1355	1345
72	1241	1227	1211	1199	1148	1138	1133	1140	1143	1169	1186	1202	1242	1255	1264	1266	1241
73	1152	1147	1117	1109	1052	1046	1042	1048	1055	1066	1098	1114	1145	1159	1174	1177	1152
74	1064	1052	1033	1017	972	960	960	957	966	983	1009	1026	1060	1067	1078	1079	1064
75	977	961	953	932	883	877	872	870	873	895	926	933	971	986	997	996	977
76	893	880	856	851	791	791	790	787	791	811	839	851	879	899	913	909	893
77	804	798	786	761	711	709	706	700	709	733	746	770	799	815	830	825	804
78	725	714	699	684	626	626	622	625	628	643	668	686	713	736	748	742	725
79	644	626	624	608	546	543	549	550	553	566	588	610	629	648	661	657	644
80	558	550	539	527	470	470	471	468	462	490	519	517	557	567	584	582	558
81	481	474	458	441	397	393	392	392	395	407	431	445	472	485	509	492	481
82	401	397	390	369	326	319	315	320	321	334	361	380	393	411	420	422	401
83	324	321	312	299	257	251	246	253	257	268	293	304	325	335	348	351	324
84	261	251	236	230	182	181	176	190	189	201	217	226	261	267	280	278	261
85	197	184	168	157	124	118	115	126	131	145	155	159	192	205	208	203	197
86	139	132	107	105	70	57	62	75	84	91	91	107	135	144	145	146	139
87	82	69	61	56	22	29	29	35	33	48	48	57	84	79	77	89	82
88	38	30	30	23	9	15	20	17	15	24	30	35	31	41	36	49	38
89	23	23	23	22	9	12	23	20	18	14	23	23	17	21	26	22	23
90	19	17	20	21	0	13	17	22	15	16	20	23	10	17	22	14	19
91	18	14	24	20	8	16	17	18	15	23	17	11	12	19	20	19	18

92	17	14	20	23	7	16	18	23	15	21	22	20	16	18	19	19	17
93	0	21	16	22	7	14	17	15	18	18	19	16	10	12	17	17	0
94	17	20	19	23	0	13	17	22	20	21	17	21	10	11	19	17	17
95	19	22	22	19	8	10	16	20	15	14	17	23	10	13	16	14	19
96	21	20	23	20	0	10	20	17	20	17	17	21	7	15	18	17	21
97	17	20	18	18	9	15	17	11	15	20	18	23	10	17	17	14	17
98	20	15	19	20	0	14	18	15	17	17	17	20	0	12	20	19	20
99	20	20	22	23	0	13	15	18	18	19	20	21	10	18	17	19	20
100	19	20	20	20	0	11	12	20	10	17	19	23	10	16	19	18	19
101	16	19	20	13	8	13	17	16	14	23	23	21	0	17	14	18	16
102	17	21	20	21	8	11	16	18	19	16	23	24	10	14	17	22	17
103	19	24	17	20	0	13	14	11	19	18	19	22	11	15	17	20	19
104	22	17	23	22	7	9	12	18	14	16	20	19	10	14	16	19	22
105	18	17	23	22	0	14	17	20	18	21	22	18	11	15	20	19	18
106	19	20	24	22	0	12	23	19	16	13	20	20	0	16	18	20	19
107	20	20	23	23	7	11	18	16	16	21	20	20	12	19	22	19	20
108	15	22	20	23	0	12	18	20	20	18	23	22	15	18	17	17	15
109	17	23	23	19	0	10	16	17	17	21	20	19	10	17	22	21	17
110	18	23	19	24	0	12	20	20	20	14	19	22	11	18	24	19	18
111	20	19	18	20	0	10	16	16	17	19	20	23	10	17	20	18	20
112	22	20	19	25	7	13	20	16	19	25	21	17	15	17	18	16	22
113	18	19	20	17	9	13	15	21	19	16	23	20	13	20	22	14	18
114	20	22	18	20	0	15	19	20	16	19	19	20	10	16	22	18	20
115	20	22	19	22	9	13	15	17	18	21	21	17	0	17	16	18	20
116	20	23	22	20	0	16	21	17	17	20	22	21	11	19	16	15	20
117	20	23	23	21	0	15	21	21	14	20	20	23	13	19	17	20	20
118	19	25	24	23	10	17	23	20	18	17	20	21	11	15	17	18	19
119	23	22	20	23	12	16	20	23	22	22	17	28	13	19	23	19	23
120	21	23	21	24	10	16	20	22	20	19	22	25	16	20	23	23	21
121	20	17	21	17	13	13	21	20	23	26	23	25	8	19	21	22	20
122	18	23	22	24	0	19	23	21	15	25	26	24	14	22	19	17	18
123	20	23	22	27	11	14	19	20	11	20	25	8	15	22	18	18	20

124	25	26	21	26	11	16	20	18	23	24	25	27	17	20	19	23	25
125	23	25	25	19	9	18	18	23	19	28	22	23	17	18	19	19	23
126	22	23	23	25	14	16	23	24	23	20	14	27	15	21	23	17	22
127	23	22	23	28	13	22	23	23	20	25	25	29	19	22	26	18	23
128	24	20	25	28	12	21	23	25	25	24	27	27	20	22	23	23	24
129	23	30	27	29	10	19	23	26	25	26	25	27	17	25	13	24	23
130	29	30	30	23	17	23	26	32	24	30	27	27	17	24	21	23	29
131	19	30	28	28	14	19	23	24	29	22	27	16	20	25	27	26	19
132	26	31	28	31	12	25	28	29	29	26	29	30	19	25	23	23	26
133	29	29	25	24	16	24	24	29	28	30	30	24	9	28	26	22	29
134	31	31	29	32	22	27	29	33	31	30	30	22	25	27	18	29	31
135	35	30	30	36	17	25	32	32	31	33	27	33	26	29	24	30	35
136	32	33	28	30	22	25	33	34	35	33	34	34	26	28	28	32	32
137	38	37	37	38	22	31	36	36	32	33	36	33	19	29	35	31	38
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139	43	35	39	34	24	33	35	31	38	41	27	38	32	32	40	40	43
140	45	31	39	42	25	27	39	41	36	42	44	43	34	25	38	33	45
141	44	47	47	39	34	29	43	42	34	39	34	40	39	39	41	35	44
142	45	37	42	43	31	34	42	41	39	39	46	48	32	41	44	38	45
143	38	42	47	39	30	36	44	45	38	39	37	47	39	43	44	44	38
144	45	45	49	36	23	38	43	43	46	39	39	45	39	44	43	42	45
145	41	42	43	44	32	38	41	44	40	43	49	47	33	40	41	46	41
146	48	46	50	43	37	36	48	34	36	47	41	49	37	44	51	44	48
147	40	50	52	50	38	39	38	41	47	46	48	49	43	45	44	49	40
148	51	50	46	47	34	44	38	27	41	48	53	46	40	47	47	52	51
149	48	50	48	50	33	39	53	50	48	47	55	32	44	52	50	41	48
150	45	58	50	47	41	45	42	44	39	50	50	52	49	40	50	51	45
151	45	55	49	55	43	42	53	50	45	48	52	45	46	47	50	52	45
152	51	55	57	54	49	49	56	53	51	52	52	56	43	51	47	51	51
153	56	57	56	57	37	46	55	48	51	53	46	42	50	39	56	57	56
154	60	64	60	52	48	46	54	54	55	45	57	60	52	53	53	54	60
155	54	60	61	57	45	47	54	57	56	50	57	54	55	55	53	59	54

156	43	64	60	54	43	50	53	55	56	57	58	55	53	50	56	57	43
157	57	61	58	59	30	51	56	55	48	56	60	56	53	55	53	51	57
158	62	67	64	58	42	49	59	54	56	56	58	54	49	58	64	58	62
159	57	64	65	61	40	51	59	61	53	56	52	64	52	61	59	57	57
160	55	61	61	66	46	55	53	57	57	58	64	67	58	55	52	63	55
161	57	61	56	66	44	56	59	61	63	63	56	61	55	59	61	62	57
162	63	58	61	69	48	58	59	62	55	62	64	72	58	63	44	62	63
163	61	61	64	55	52	57	63	65	60	63	65	66	58	60	59	51	61
164	62	64	64	68	50	59	68	63	63	66	62	61	59	56	46	62	62
165	65	59	65	67	56	57	68	68	66	65	70	71	58	60	64	65	65
166	66	63	64	66	56	54	57	61	68	61	66	67	55	58	68	66	66
167	66	70	68	68	57	62	63	69	72	69	67	71	58	67	64	68	66
168	66	60	68	69	56	67	65	66	60	73	64	73	58	67	60	64	66
169	63	66	59	67	59	65	66	66	62	70	73	67	60	68	65	68	63
170	66	72	53	69	52	67	68	72	72	73	69	73	62	64	66	60	66
171	67	70	70	67	55	61	72	68	66	77	72	74	61	64	66	66	67
172	69	67	70	70	52	67	72	69	69	73	58	75	58	67	68	69	69
173	72	68	73	74	61	70	70	70	64	74	72	75	64	67	66	69	72
174	58	62	72	64	52	61	68	71	72	70	73	71	64	66	68	63	58
175	70	70	74	70	55	64	77	71	66	67	74	74	62	62	67	64	70
176	68	70	68	74	49	64	64	69	72	69	70	70	57	61	62	69	68
177	66	70	70	70	55	64	64	69	64	70	68	77	63	65	65	65	66
178	69	71	65	68	46	64	66	69	69	67	73	71	63	62	69	66	69
179	69	69	73	61	55	65	58	66	66	69	68	72	63	64	71	63	69
180	65	70	69	69	54	60	61	67	66	65	70	69	60	61	67	66	65

UGR

UGR Table - Corrected

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.4	25.8	24.8	26.1	26.4	24.2	25.5	24.5	25.8	26.2
	3H	25.6	26.8	26.0	27.2	27.5	25.3	26.5	25.7	26.9	27.2
	4H	26.1	27.2	26.5	27.6	27.9	25.7	26.9	26.1	27.2	27.6
	6H	26.4	27.4	26.8	27.8	28.2	26.0	27.0	26.4	27.4	27.8
	8H	26.5	27.5	26.9	27.8	28.3	26.0	27.0	26.5	27.4	27.8
	12H	26.5	27.4	26.9	27.8	28.3	26.0	27.0	26.5	27.4	27.8
4H	2H	24.8	25.9	25.2	26.3	26.7	24.5	25.7	24.9	26.0	26.4
	3H	26.2	27.1	26.6	27.6	28.0	25.9	26.8	26.3	27.2	27.6
	4H	26.8	27.6	27.2	28.0	28.5	26.4	27.3	26.9	27.7	28.1
	6H	27.2	27.9	27.7	28.4	28.9	26.8	27.5	27.3	28.0	28.4
	8H	27.3	28.0	27.8	28.5	28.9	26.9	27.5	27.3	28.0	28.5
	12H	27.4	28.0	27.9	28.5	28.9	26.9	27.5	27.4	28.0	28.4
8H	4H	27.0	27.6	27.4	28.1	28.6	26.6	27.3	27.1	27.7	28.2
	6H	27.5	28.1	28.0	28.6	29.0	27.1	27.6	27.6	28.1	28.6
	8H	27.7	28.2	28.2	28.7	29.2	27.2	27.7	27.7	28.2	28.7
	12H	27.8	28.2	28.3	28.7	29.3	27.2	27.7	27.7	28.2	28.7
12H	4H	27.0	27.6	27.5	28.1	28.5	26.6	27.2	27.1	27.7	28.2
	6H	27.5	28.0	28.0	28.5	29.0	27.1	27.6	27.6	28.0	28.6
	8H	27.7	28.2	28.2	28.7	29.2	27.2	27.7	27.7	28.2	28.7

Maximum UGR = 29.3

2.5 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2025-05-09	Test Ambient:	25.2 ° C
Test Orientation	Horizontal	Stabilization Time (min)	90
Model Number	BLT-HB26-240WS1B60/80/100A1-BH30/40/50WD	Operation time(min)	110

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
UTU2505005E-L 1	120.0	60	1.974	236.67	0.999	3.77
	277.0	60	0.858	229.43	0.965	4.45
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

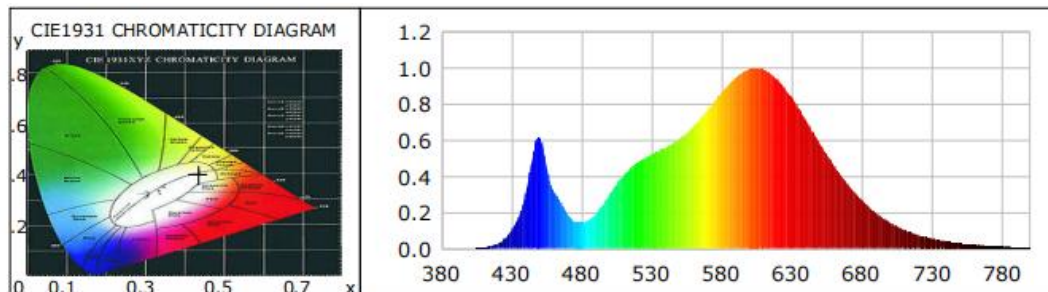
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	8
Frequency (Hz)	60	R2	90	R10	77
CCT (K)	3012	R3	96	R11	81
Duv	-0.0013	R4	81	R12	70
Chromaticity (x, y)	x=0.4342 y=0.3999	R5	81	R13	83
Chromaticity (u', v')	u'=0.2506 v'=0.5193	R6	87	R14	98
Color Rendering Index (CRI)	83	R7	83	R15	74
R9	8	R8	60	--	--
Rf	84	--	--	--	--
Rg	98	--	--	--	--
Rcs,h1(%)	-11				

Photometric Measurement – Goniophotometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	34981.7	34710.2	>=10000(-10%)
Luminous Efficacy (lm/W)	147.81	151.29	Premium: >= 135(-3%)
Most worst Luminous/Highest	146.66		
Zonal lumens in the 20-50° zone (%)	63.10	--	>=30(-10%)
Beam Angle (°)	99.0	--	--
Center Beam Candle Power (cd)	14651	--	--

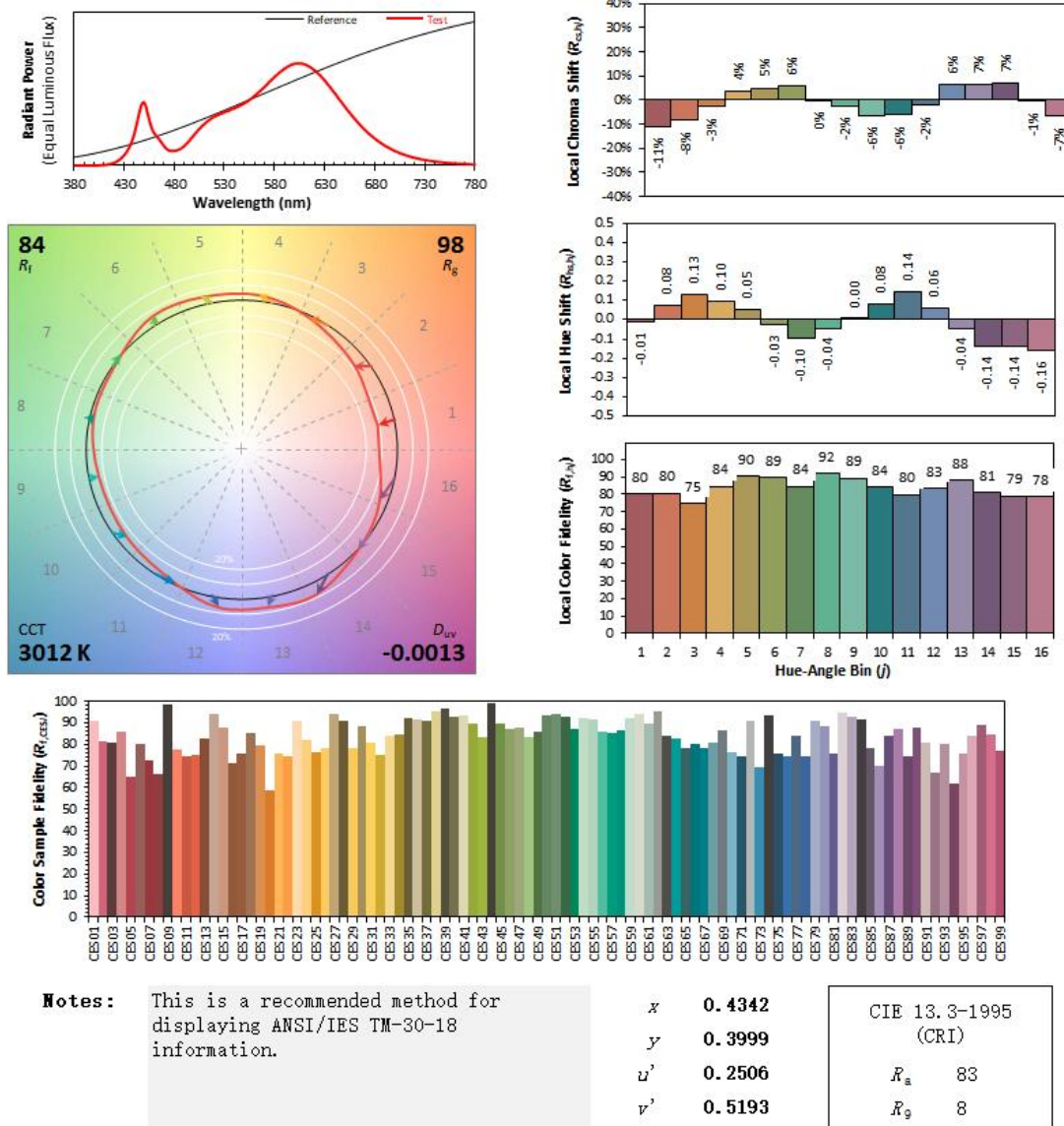
Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0005	0.3032	535	0.5012	328.8938	690	0.3521	231.0334
385	0.0001	0.0397	540	0.5205	341.5419	695	0.3064	201.0206
390	0.0004	0.2672	545	0.5387	353.4658	700	0.2661	174.5853
395	0.0003	0.2191	550	0.5600	367.4835	705	0.2300	150.9146
400	0.0004	0.2840	555	0.5824	382.1480	710	0.1964	128.8712
405	0.0021	1.3630	560	0.6093	399.7883	715	0.1696	111.2960
410	0.0050	3.2575	565	0.6407	420.4011	720	0.1443	94.6718
415	0.0125	8.1990	570	0.6801	446.2729	725	0.1239	81.3172
420	0.0265	17.3759	575	0.7233	474.6328	730	0.1045	68.5952
425	0.0535	35.1014	580	0.7679	503.8859	735	0.0894	58.6661
430	0.1004	65.8609	585	0.8201	538.1493	740	0.0764	50.1621
435	0.1773	116.3725	590	0.8666	568.6103	745	0.0646	42.3642
440	0.3030	198.8193	595	0.9090	596.4506	750	0.0546	35.8054
445	0.5106	335.0469	600	0.9488	622.5561	755	0.0466	30.5919
450	0.6174	405.1305	605	0.9760	640.4564	760	0.0392	25.7438
455	0.4527	297.0771	610	0.9957	653.3737	765	0.0336	22.0477
460	0.3176	208.4223	615	0.9982	655.0024	770	0.0287	18.8071
465	0.2578	169.1478	620	0.9918	650.8256	775	0.0246	16.1173
470	0.1885	123.7144	625	0.9674	634.7574	780	0.0204	13.3820
475	0.1481	97.1948	630	0.9341	612.9409	785	0.0183	12.0255
480	0.1447	94.9283	635	0.8885	583.0060	790	0.0154	10.0750
485	0.1579	103.6288	640	0.8337	547.0470	795	0.0125	8.1909
490	0.1909	125.2886	645	0.7759	509.1222	800	0.0111	7.3139
495	0.2417	158.5884	650	0.7110	466.5514			
500	0.3012	197.6329	655	0.6454	423.4818			
505	0.3577	234.7067	660	0.5795	380.2341			
510	0.4070	267.0391	665	0.5186	340.2695			
515	0.4461	292.7347	670	0.4591	301.2243			
520	0.4760	312.3532	675	0.4031	264.4923			
525	0.5012	328.8938	680	0.3521	231.0334			
530	0.5205	341.5419	685	0.3064	201.0206			

TM30

ANSI/IES TM-30-18 Color Rendition Report



Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

Zonal Lumen Tabulation

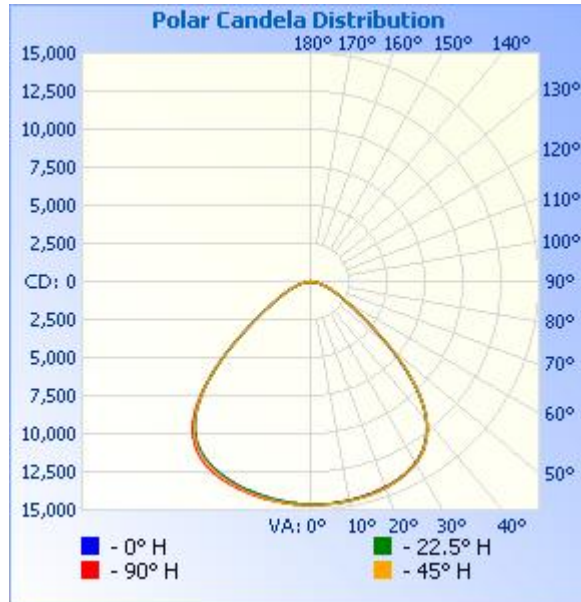
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	11,995.3	34.3%	34.3%
0-40	20,123.1	57.5%	57.5%
0-60	31,704.9	90.6%	90.6%
60-90	3,107.2	8.9%	8.9%
70-100	1,127.2	3.2%	3.2%
90-120	54.1	0.2%	0.2%
0-90	34,812.1	99.5%	99.5%
90-180	165.0	0.5%	0.5%
0-180	34,977.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,394.4	4.0%	90-100	17.7	0.1%
10-20	4,094.5	11.7%	100-110	18.1	0.1%
20-30	6,506.4	18.6%	110-120	18.2	0.1%
30-40	8,127.9	23.2%	120-130	20.8	0.1%
40-50	7,447.6	21.3%	130-140	23.7	0.1%
50-60	4,134.2	11.8%	140-150	26.1	0.1%
60-70	1,997.7	5.7%	150-160	21.0	0.1%
70-80	913.6	2.6%	160-170	14.2	0%
80-90	195.9	0.6%	170-180	5.0	0%

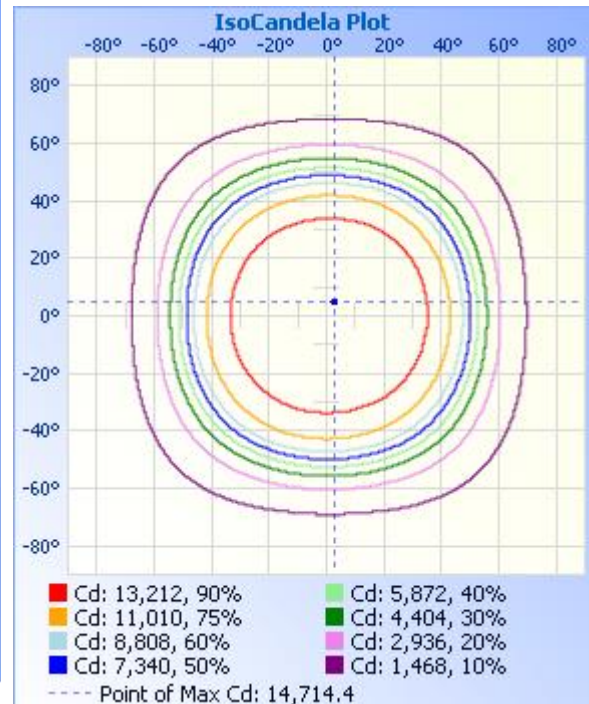
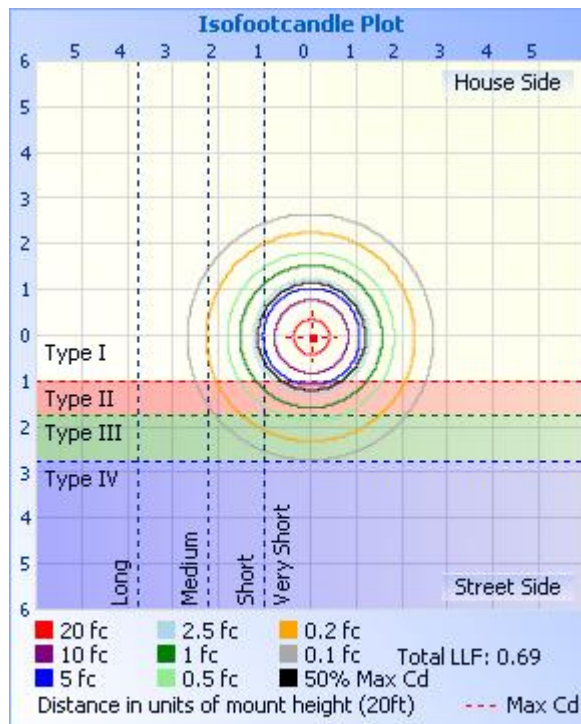
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	50.7 fc	39.7 ft	39.5 ft
34.0ft	12.7 fc	79.4 ft	79.1 ft
51.0ft	5.63 fc	119.1 ft	118.6 ft
68.0ft	3.17 fc	158.9 ft	158.1 ft
85.0ft	2.03 fc	198.6 ft	197.6 ft
102.0ft	1.41 fc	238.3 ft	237.2 ft

■ Vert. Spread: 98.9°
■ Horiz. Spread: 98.6°



Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651	14651
1	14661	14606	14684	14675	14685	14621	14620	14686	14616	14621	14686	14648	14680	14665	14610	14707	14661
2	14638	14650	14680	14634	14655	14647	14599	14653	14643	14594	14649	14668	14686	14623	14658	14690	14638
3	14674	14626	14653	14665	14663	14591	14619	14632	14604	14610	14661	14625	14652	14664	14640	14691	14674
4	14641	14637	14685	14642	14663	14614	14567	14639	14598	14551	14669	14663	14686	14631	14654	14714	14641
5	14662	14651	14648	14633	14621	14601	14598	14585	14596	14575	14625	14643	14652	14643	14667	14674	14662
6	14671	14600	14670	14652	14655	14556	14567	14616	14544	14556	14653	14611	14658	14655	14625	14699	14671
7	14617	14634	14674	14602	14614	14582	14526	14576	14567	14509	14615	14620	14656	14603	14658	14692	14617
8	14650	14606	14621	14620	14611	14533	14546	14540	14515	14526	14604	14562	14601	14635	14630	14670	14650
9	14606	14587	14659	14600	14606	14547	14484	14546	14501	14467	14599	14590	14625	14602	14611	14686	14606
10	14608	14604	14620	14570	14544	14535	14488	14482	14490	14485	14534	14561	14582	14590	14622	14641	14608
11	14610	14555	14624	14585	14572	14480	14475	14499	14426	14448	14553	14527	14584	14607	14563	14653	14610
12	14555	14581	14629	14527	14534	14495	14424	14470	14438	14393	14515	14537	14586	14553	14591	14652	14555
13	14571	14564	14567	14540	14509	14452	14440	14418	14389	14405	14483	14486	14519	14575	14559	14592	14571
14	14531	14526	14587	14519	14508	14429	14382	14427	14350	14342	14484	14499	14538	14551	14524	14614	14531
15	14524	14539	14549	14461	14443	14414	14374	14358	14351	14348	14417	14472	14501	14527	14530	14560	14524
16	14524	14486	14528	14484	14459	14360	14354	14367	14285	14329	14441	14409	14478	14532	14474	14557	14524
17	14472	14484	14523	14436	14410	14375	14282	14335	14299	14267	14396	14426	14470	14468	14483	14549	14472
18	14483	14458	14451	14419	14369	14334	14286	14270	14251	14276	14340	14368	14411	14477	14473	14488	14483
19	14443	14394	14456	14398	14369	14280	14223	14272	14210	14213	14335	14350	14423	14443	14407	14497	14443
20	14407	14402	14408	14313	14297	14263	14194	14208	14192	14180	14260	14323	14388	14390	14424	14433	14407
21	14388	14328	14362	14320	14316	14192	14169	14184	14117	14160	14262	14256	14338	14394	14355	14418	14388
22	14305	14304	14345	14246	14265	14195	14082	14152	14101	14067	14212	14269	14334	14314	14345	14398	14305
23	14291	14267	14253	14212	14198	14138	14079	14065	14036	14061	14139	14195	14258	14309	14322	14313	14291
24	14249	14180	14243	14185	14188	14073	14001	14049	13958	13989	14119	14156	14242	14270	14237	14312	14249
25	14166	14167	14188	14090	14084	14055	13953	13969	13945	13930	14023	14124	14195	14197	14231	14248	14166
26	14132	14074	14089	14067	14057	13949	13924	13914	13845	13891	13993	14032	14118	14179	14141	14197	14132
27	14022	14015	14064	13977	13985	13923	13825	13863	13819	13796	13935	13996	14098	14090	14082	14144	14022
28	13985	13950	13957	13906	13886	13835	13797	13763	13746	13778	13841	13913	14004	14043	14038	14030	13985
29	13909	13827	13889	13843	13835	13731	13688	13725	13649	13687	13793	13824	13950	13979	13907	13961	13909

30	13781	13769	13811	13702	13701	13674	13584	13615	13601	13574	13671	13751	13863	13849	13850	13846	13781
31	13710	13654	13654	13624	13615	13522	13515	13505	13486	13503	13588	13617	13743	13793	13733	13737	13710
32	13556	13525	13574	13487	13501	13450	13370	13424	13385	13350	13490	13548	13660	13655	13635	13646	13556
33	13439	13429	13416	13328	13346	13316	13289	13266	13265	13271	13332	13401	13499	13525	13518	13482	13439
34	13288	13228	13263	13193	13240	13151	13136	13156	13097	13123	13231	13250	13371	13406	13334	13349	13288
35	13061	13087	13105	13002	13041	13020	12944	12994	12976	12946	13036	13118	13217	13190	13197	13192	13061
36	12902	12870	12883	12848	12848	12783	12790	12811	12783	12787	12853	12899	13008	13037	13006	12952	12902
37	12675	12641	12709	12655	12619	12592	12556	12636	12585	12555	12657	12726	12832	12826	12772	12769	12675
38	12433	12429	12452	12378	12349	12366	12369	12356	12375	12360	12392	12450	12584	12589	12545	12500	12433
39	12177	12112	12160	12143	12114	12079	12081	12146	12083	12096	12142	12162	12314	12339	12240	12231	12177
40	11847	11821	11861	11819	11799	11816	11771	11857	11830	11783	11829	11890	12036	12006	11979	11934	11847
41	11512	11495	11505	11498	11452	11429	11487	11524	11500	11491	11489	11526	11683	11688	11659	11580	11512
42	11145	11108	11123	11115	11091	11065	11093	11188	11133	11069	11139	11189	11309	11330	11233	11256	11145
43	10732	10684	10704	10675	10605	10678	10711	10755	10722	10691	10725	10743	10884	10897	10873	10848	10732
44	10288	10199	10231	10256	10189	10209	10239	10305	10267	10290	10301	10286	10425	10466	10414	10389	10288
45	9762	9763	9766	9815	9695	9710	9728	9818	9833	9757	9824	9844	9957	9961	9926	9913	9762
46	9246	9252	9266	9278	9152	9199	9228	9269	9299	9262	9310	9309	9414	9461	9414	9293	9246
47	8739	8665	8743	8756	8600	8635	8695	8792	8744	8750	8819	8812	8926	8952	8867	8811	8739
48	8123	8147	8206	8203	8003	8070	8123	8211	8200	8199	8246	8264	8386	8319	8275	8253	8123
49	7581	7575	7623	7662	7458	7482	7513	7602	7630	7664	7673	7633	7779	7756	7686	7668	7581
50	6980	7006	7072	7077	6834	6887	6930	7032	7105	7047	7114	7108	7214	7149	7091	7090	6980
51	6433	6465	6455	6510	6268	6313	6382	6452	6479	6501	6541	6534	6632	6582	6532	6505	6433
52	5911	5866	5929	5943	5739	5767	5837	5932	5942	5960	6015	5947	6036	6042	5973	5939	5911
53	5399	5379	5425	5411	5209	5258	5268	5358	5447	5447	5477	5429	5528	5509	5483	5443	5399
54	4946	4902	4922	4935	4745	4766	4802	4897	4960	4978	4961	4937	5023	4998	5010	4960	4946
55	4458	4462	4443	4487	4309	4308	4368	4473	4541	4495	4527	4518	4592	4552	4527	4540	4458
56	4083	4080	4042	4029	3887	3929	4002	4075	4111	4127	4140	4088	4153	4162	4151	4142	4083
57	3740	3685	3691	3686	3557	3583	3617	3700	3757	3774	3801	3746	3800	3822	3796	3769	3740
58	3428	3391	3388	3369	3258	3296	3315	3385	3452	3461	3479	3444	3493	3472	3495	3467	3428
59	3172	3125	3115	3109	3013	3002	3057	3121	3170	3165	3188	3169	3212	3215	3199	3190	3172
60	2926	2879	2884	2875	2781	2775	2808	2874	2924	2914	2944	2938	2980	2971	2962	2958	2926
61	2692	2681	2650	2655	2557	2572	2610	2654	2684	2708	2727	2725	2761	2755	2754	2737	2692

62	2504	2468	2463	2451	2378	2379	2399	2448	2478	2508	2519	2513	2551	2565	2555	2530	2504
63	2319	2297	2294	2274	2206	2201	2226	2265	2304	2309	2341	2346	2376	2363	2385	2355	2319
64	2147	2134	2113	2112	2048	2032	2065	2097	2130	2148	2173	2174	2205	2208	2205	2181	2147
65	1998	1978	1968	1951	1884	1893	1905	1944	1961	1981	2016	2026	2041	2054	2050	2028	1998
66	1857	1829	1821	1803	1740	1747	1765	1790	1810	1839	1862	1860	1894	1908	1916	1877	1857
67	1724	1692	1687	1670	1616	1611	1618	1642	1667	1694	1730	1720	1753	1771	1751	1739	1724
68	1585	1569	1564	1544	1490	1485	1493	1519	1545	1555	1587	1599	1624	1619	1633	1614	1585
69	1471	1456	1437	1430	1368	1368	1380	1387	1411	1442	1468	1473	1504	1506	1503	1484	1471
70	1353	1329	1333	1310	1264	1263	1270	1289	1298	1320	1348	1365	1380	1395	1388	1379	1353
71	1254	1233	1224	1206	1162	1161	1160	1164	1190	1216	1231	1245	1272	1273	1281	1268	1254
72	1152	1132	1127	1112	1069	1049	1057	1070	1091	1101	1128	1140	1173	1178	1177	1173	1152
73	1055	1043	1030	1022	964	962	966	978	992	1000	1030	1044	1072	1075	1084	1076	1055
74	974	950	939	925	880	873	878	881	903	915	940	952	978	991	996	982	974
75	886	866	856	846	800	789	786	803	820	828	844	865	889	902	902	896	886
76	806	791	781	766	723	719	715	724	737	753	759	781	810	816	821	819	806
77	724	716	697	695	642	635	637	642	658	664	687	700	720	742	746	741	724
78	651	643	633	620	565	560	563	564	574	590	612	628	644	659	670	668	651
79	578	564	558	540	492	491	490	489	497	520	542	545	575	589	600	589	578
80	504	494	490	474	428	422	426	426	431	451	468	475	497	511	521	522	504
81	430	426	413	407	357	355	357	357	358	382	402	408	425	438	451	453	430
82	365	357	344	334	297	292	288	291	296	313	330	341	355	374	380	381	365
83	297	294	282	273	230	230	227	232	236	251	268	278	295	302	315	315	297
84	240	232	217	209	173	165	163	167	177	194	199	206	231	242	245	256	240
85	186	174	154	146	117	103	103	118	127	134	137	147	176	184	185	194	186
86	129	115	96	92	63	45	60	70	82	84	90	100	119	131	128	135	129
87	85	71	46	53	23	24	28	30	41	37	47	58	70	76	73	85	85
88	42	37	25	21	11	12	13	23	21	24	30	29	33	36	41	46	42
89	21	23	22	22	0	10	15	19	20	21	26	19	11	13	22	30	21
90	21	25	20	24	0	9	17	23	21	16	20	17	10	15	21	20	21
91	21	22	19	21	8	11	19	19	18	20	19	18	9	15	20	21	21
92	21	21	22	19	0	10	16	20	19	13	22	19	8	16	16	21	21
93	18	19	22	20	0	0	13	20	19	19	21	10	0	15	19	20	18

94	20	24	18	22	0	8	15	21	18	21	19	13	0	12	15	21	20
95	17	25	16	22	0	12	13	17	16	17	22	19	0	15	19	20	17
96	20	23	20	20	0	12	18	12	17	20	19	17	0	18	19	21	20
97	24	20	24	19	0	11	18	15	18	21	16	17	9	12	19	19	24
98	25	22	24	18	0	10	17	15	20	22	20	16	9	12	16	18	25
99	23	23	11	22	0	8	19	18	18	18	24	19	10	15	20	20	23
100	14	23	24	16	0	8	14	18	21	20	18	18	12	11	17	24	14
101	16	21	22	20	0	13	19	20	20	18	25	21	12	12	18	22	16
102	20	19	20	22	10	0	13	17	21	21	20	21	0	13	20	21	20
103	23	26	19	20	0	11	16	20	21	21	19	21	9	17	17	18	23
104	23	24	17	21	0	10	16	12	15	23	23	17	10	11	19	18	23
105	23	23	16	24	0	13	18	11	17	18	19	19	9	15	21	24	23
106	22	24	20	26	0	13	18	15	21	19	16	18	11	15	20	20	22
107	26	22	19	20	0	15	18	19	17	23	24	16	9	14	19	20	26
108	17	26	21	19	0	11	14	18	19	23	24	20	9	12	16	20	17
109	22	22	19	23	7	12	19	20	21	22	21	15	11	17	16	20	22
110	22	20	22	19	8	15	17	20	17	23	26	21	10	17	19	23	22
111	24	23	22	21	9	11	16	15	21	15	23	20	12	15	19	19	24
112	23	18	25	25	0	9	18	21	19	22	22	18	11	15	21	22	23
113	23	21	21	13	0	12	16	19	23	20	19	22	10	17	22	18	23
114	23	21	20	19	0	10	18	19	18	21	21	17	10	13	15	20	23
115	22	24	19	19	0	14	19	17	11	21	25	19	8	19	19	24	22
116	24	24	21	20	10	13	18	18	21	23	19	15	12	15	19	22	24
117	22	25	22	23	9	11	20	16	20	13	26	19	10	11	24	24	22
118	25	25	22	23	9	13	20	21	20	19	25	22	13	18	23	22	25
119	20	26	25	23	9	11	21	21	22	24	28	22	12	16	17	24	20
120	28	24	25	27	16	12	18	18	21	21	26	20	12	17	22	26	28
121	25	24	24	28	7	16	23	19	21	25	27	22	14	19	26	16	25
122	25	26	24	27	12	16	22	24	27	27	29	22	17	10	22	23	25
123	27	18	28	27	13	14	21	15	24	23	27	24	17	16	19	25	27
124	23	27	22	25	13	15	21	14	26	28	30	26	15	21	24	22	23
125	29	24	24	29	10	13	19	27	21	26	26	25	15	23	19	25	29

126	27	22	24	27	14	18	28	29	19	30	30	29	12	19	24	29	27
127	28	32	27	23	16	14	14	29	27	31	24	26	17	24	25	23	28
128	30	32	29	25	17	23	26	31	32	30	32	24	21	23	28	28	30
129	32	32	28	28	15	18	20	29	30	29	29	30	19	22	25	28	32
130	32	33	27	29	18	22	25	27	30	34	33	31	17	19	30	26	32
131	27	30	28	17	18	22	25	28	34	27	32	27	18	24	25	32	27
132	32	28	31	30	21	23	22	26	34	32	33	27	18	17	29	35	32
133	30	36	29	31	19	18	21	30	33	30	31	22	22	30	28	31	30
134	31	34	31	31	20	29	29	32	34	32	33	32	25	30	29	28	31
135	38	27	34	35	24	27	24	36	29	40	38	34	24	32	30	31	38
136	40	37	34	31	23	19	24	32	31	35	39	34	25	33	31	32	40
137	34	37	28	36	28	27	32	37	37	28	38	21	30	34	34	35	34
138	41	32	37	35	28	26	35	31	34	31	39	39	30	33	31	33	41
139	38	41	33	38	28	25	34	42	40	41	42	42	28	36	34	40	38
140	43	41	43	35	30	26	39	39	44	40	47	36	29	37	39	42	43
141	40	46	48	34	27	31	36	43	44	43	43	39	32	42	41	44	40
142	37	45	44	41	29	34	42	41	36	44	52	39	32	37	40	44	37
143	49	43	40	45	28	32	43	45	42	47	47	34	33	41	45	47	49
144	46	37	19	43	29	36	40	40	46	47	52	44	34	47	45	48	46
145	50	53	47	44	34	34	43	45	44	43	54	42	34	42	45	48	50
146	43	37	47	30	31	40	37	44	44	47	47	45	37	42	46	43	43
147	41	51	48	45	34	31	42	48	42	49	48	49	39	44	47	50	41
148	49	50	46	33	32	37	42	35	40	48	50	47	31	42	47	43	49
149	50	45	39	45	33	34	42	47	46	49	44	46	41	43	35	49	50
150	52	54	46	46	32	40	43	48	35	44	51	46	37	46	46	48	52
151	50	47	47	38	34	28	44	47	46	52	53	50	32	47	49	39	50
152	52	47	43	44	36	40	43	50	49	47	54	48	41	43	51	49	52
153	46	55	51	48	31	34	43	49	49	42	54	50	39	44	48	50	46
154	42	53	46	32	33	30	47	51	43	50	38	48	40	48	47	49	42
155	55	49	52	48	38	26	35	52	46	49	50	47	38	39	48	44	55
156	53	41	51	52	37	41	45	31	53	49	51	45	40	45	48	54	53
157	53	47	55	53	37	42	45	37	46	51	49	35	37	47	40	50	53

158	54	50	42	41	31	45	44	38	51	43	53	46	33	43	48	47	54
159	53	57	53	48	36	33	48	54	52	54	56	47	43	46	48	51	53
160	48	50	50	55	36	46	45	46	52	49	57	55	40	52	54	49	48
161	54	55	46	52	42	38	50	49	48	46	56	50	44	49	39	51	54
162	53	56	51	52	41	45	47	52	52	52	58	44	21	46	49	53	53
163	36	49	54	50	40	47	52	52	53	55	54	53	40	42	54	50	36
164	53	58	52	55	39	45	52	53	51	53	56	56	43	50	39	56	53
165	57	55	54	49	35	46	52	52	57	57	58	57	35	49	52	49	57
166	53	56	52	49	37	49	50	52	55	53	58	56	48	48	47	51	53
167	60	48	55	55	37	43	51	56	59	58	57	54	47	51	45	52	60
168	54	50	57	39	42	40	53	59	55	57	60	56	43	45	45	52	54
169	55	57	56	53	40	45	56	51	57	63	64	56	49	52	54	55	55
170	62	56	49	55	46	46	51	58	52	64	64	62	43	48	49	44	62
171	55	52	56	51	46	54	58	58	58	61	59	52	41	41	42	47	55
172	58	58	55	54	40	46	50	58	58	62	50	56	30	45	57	56	58
173	55	53	34	54	49	48	48	56	59	56	59	59	47	47	48	53	55
174	54	55	59	56	46	54	56	52	55	48	58	59	43	52	54	52	54
175	58	52	57	52	39	40	54	46	58	61	56	54	45	52	55	51	58
176	51	54	55	56	42	44	52	56	56	53	55	58	39	52	54	53	51
177	55	53	47	53	45	46	49	52	56	47	58	49	41	49	57	55	55
178	56	52	54	56	41	43	51	57	49	56	58	44	43	47	51	53	56
179	55	57	56	53	39	46	47	50	53	55	43	54	46	49	51	56	55
180	47	48	59	50	42	45	45	52	51	47	48	59	45	45	52	51	47

UGR

UGR Table - Corrected

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	25.2	26.7	25.6	27.0	27.3	25.0	26.5	25.4	26.8	27.1
	3H	26.2	27.5	26.5	27.8	28.1	25.9	27.2	26.3	27.5	27.9
	4H	26.5	27.7	26.9	28.0	28.4	26.2	27.4	26.6	27.7	28.1
	6H	26.7	27.8	27.1	28.2	28.6	26.4	27.5	26.8	27.8	28.2
	8H	26.8	27.8	27.2	28.2	28.6	26.4	27.5	26.8	27.8	28.2
	12H	26.8	27.8	27.2	28.2	28.6	26.4	27.4	26.8	27.8	28.2
4H	2H	25.5	26.8	25.9	27.1	27.5	25.3	26.5	25.7	26.9	27.3
	3H	26.7	27.7	27.1	28.1	28.5	26.4	27.4	26.8	27.8	28.2
	4H	27.1	28.0	27.5	28.4	28.8	26.8	27.7	27.2	28.1	28.5
	6H	27.4	28.2	27.9	28.7	29.1	27.1	27.8	27.5	28.3	28.7
	8H	27.5	28.2	28.0	28.7	29.2	27.1	27.8	27.6	28.3	28.7
	12H	27.6	28.2	28.1	28.7	29.2	27.1	27.8	27.6	28.3	28.7
8H	4H	27.2	28.0	27.7	28.4	28.9	26.9	27.6	27.4	28.1	28.5
	6H	27.7	28.2	28.2	28.7	29.2	27.3	27.8	27.8	28.3	28.8
	8H	27.8	28.3	28.3	28.8	29.3	27.4	27.9	27.9	28.4	28.9
	12H	27.9	28.3	28.4	28.8	29.4	27.4	27.9	27.9	28.3	28.9
12H	4H	27.2	27.9	27.7	28.3	28.8	26.9	27.5	27.4	28.0	28.5
	6H	27.7	28.2	28.2	28.7	29.2	27.3	27.8	27.8	28.3	28.8
	8H	27.8	28.3	28.3	28.8	29.4	27.4	27.8	27.9	28.3	28.9

Maximum UGR = 29.4

3. Test Equipment

Equipment Name	Model No.	Serial No.	Calibration Date
Goniophotometric System	GPM-3000	DYHXF120001	2025-01-08
AC Power Source	CHP-500C	DYBWD010159	2025-01-02
Standard Lamp*	24V/150W	DYJYR040040	2025-01-14
Standard Lamp**	24V/100W	DYBWR030014	2025-01-14
Digital Power Meter	WT500	DYDWQ20010	2025-01-02
Integral Sphere (2M)	2M	DYJCE120067	2025-01-08
Digital Power Meter	WT500	DYDWQ200006	2025-01-02
Optical Color and Electrical Measurement System	CMS-3000S	DYJCE120067	2025-01-08

* Reference standard lamp (150W incandescent directional lamp) calibrated by Guangzhou Institute of Measurement and Testing Technology.

** Reference standard lamp (100W incandescent omni-directional lamp) calibrated by Guangzhou Institute of Measurement and Testing Technology.

Expand Uncertainty:

Photometric Measurement (Sphere): 2.02%, k=2

Chromaticity Measurement(Sphere):24.8K, k=2

Photometric Measurement(Goniophotometer):2.88%, k=2

***** END OF REPORT *****