



Report No.:
BLC2207025E-E-PL

LM-79-08 Test Report

For

Beyond LED Technology

(Brand Name: Beyond LED Technology)

Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Architectural Flood and Spot Luminaires

Model name(s): BLT-S-G14B-300WBT3A4-BR10SP50

Remark: "a" can be any two letters for lamp colors; "b" can be "3RP", "3NP", "5RP", "5NP", "7RP", "7NP" or blank for photocontrol type provided or not; "c" can be "10SP", "20SP" or blank for Surge protector type provided or not; "d" can be "DM", "DP", "Z", "ZM", "ZP" or blank for DC sensor type provided or not; "e" can be "AM", "DM", "A&D", "FM" for bracket type; "W" for wattage adjustable; "g" can be any digits for CCT.

Representative (Tested) Model:
BLT-S-G14B-300WBT3A4-BR10SP50
BLT-S-G14B-300WBT3A4-BR10SP50

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

Test & Report By:

Winnie Wu

Engineer: Winnie Wu

Date: 2022-09-05

Review By:

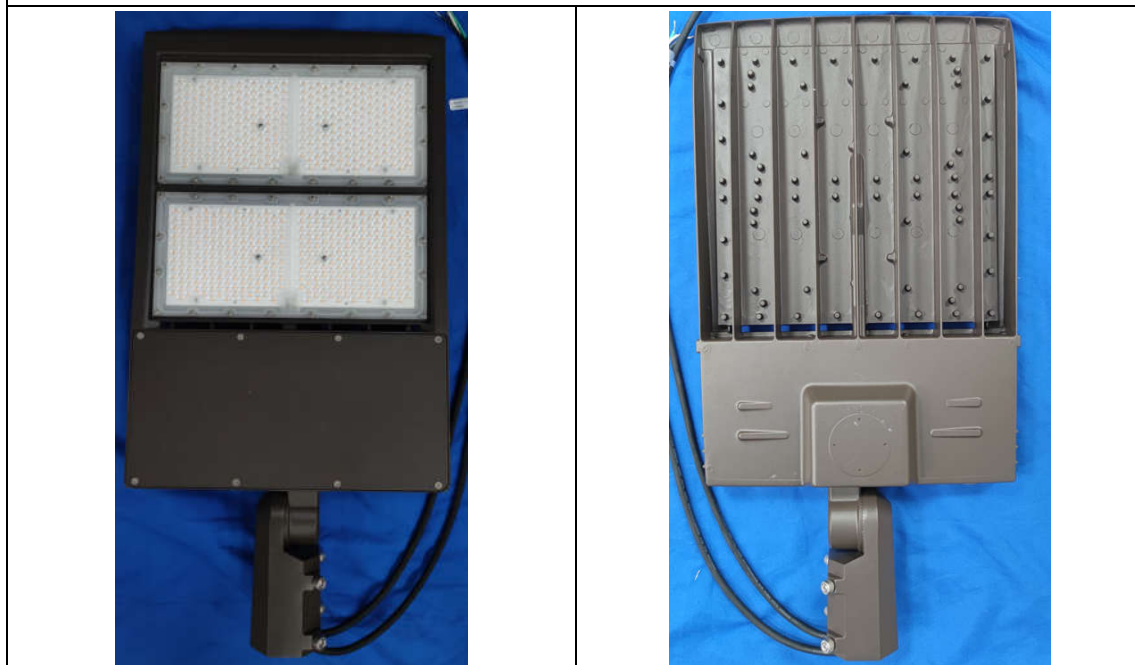
Jason Luo

Manager: Jason Luo

1.1 Product Information:

Organization Name	Beyond LED Technology	
Brand Name	Beyond LED Technology	
Model Number	BLT-S-G14B-300WBT3A4-BR10SP50	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires Architectural Flood and Spot Luminaires	
Rated Voltage / Frequency	120-277Vac, 50/60 Hz	
Nominal Power	300W(Power adjustable)	
Rated Initial Lamp Lumen	--	
Declared CCT	3000K,3500K, 4000K, 4500K,5000K, 5700K	
LED Manufacturer	Lumileds Holding B.V.	
LED Model	L128-3080RC35003P1 L128-5780RC35003P1	
Sample Number	BLC2207025E-E1(3000K),E3(5700K)	
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	2022-07-13
Date of Test	2022-07-15/2022-09-05
Test item	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. IES LM-79-2017 Electrical and Photometric Measurements of Solid-State Lighting Products 2. ANSI C78.377-2017 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 $\text{fl}'=1.42\%$, 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.

Self-absorption:

AST-S-G14B-300WBT3A4-abcdeW30:1.023

AST-S-G14B-300WBT3A4-abcdeW57:1.024

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.

2.1 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2022-07-15	Test Ambient:	25.2 ° C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	BLT-S-G14B-300WBT3A4-BR10SP50		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC220702	120.0	60	2.493	297.31	0.994	9.09
5E-E1	277.0	60	1.097	285	0.938	11.21
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

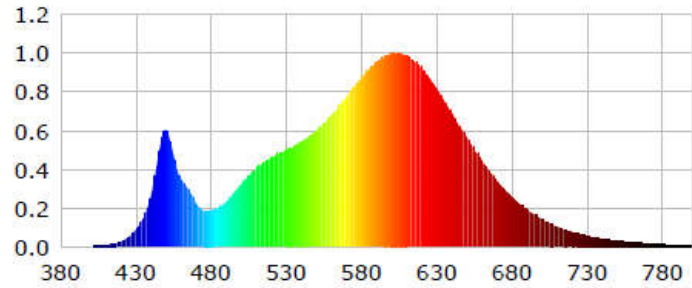
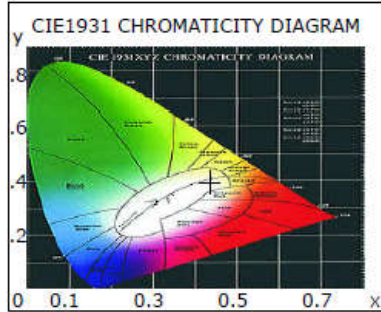
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	5
Frequency (Hz)	60	R2	91	R10	80
CCT (K)	3017	R3	96	R11	80
Duv	-0.0017	R4	80	R12	73
Chromaticity (x, y)	x=0.4333 y=0.3986	R5	82	R13	83
Chromaticity (u', v')	u'(u')=0.2506 v'(v')=0.5187	R6	89	R14	98
Color Rendering Index (CRI)	84	R7	81	R15	73
R9	97	R8	58	--	--
Rf	82	--	--	--	--
Rg	5	--	--	--	--
Rcs,h1(%)	-12				

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)	45414.1	44126.6	>=10000(-10%)
Luminous Efficacy (lm/W)	152.75	154.83	Premium: >= 120(-3%)
Most worst Luminous/Highest	148.42		
Zonal lumens in the 0-90° zone (%)	100	--	Category 1: >=100(-1) Category 2: >=85(-3)
Zonal lumens in the 80-90°zone (%)	2.9	--	<=10(+3)
Beam Angle (°)		--	--
Center Beam Candle Power (cd)		--	--

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	0.0571	535	0.4787	368.6734	690	0.3417	263.1088
385	0.0004	0.2734	540	0.4970	382.7714	695	0.2977	229.2245
390	0.0002	0.1680	545	0.5168	397.9803	700	0.2581	198.7546
395	0.0003	0.2548	550	0.5436	418.6105	705	0.2232	171.8506
400	0.0009	0.6726	555	0.5668	436.4981	710	0.1920	147.8482
405	0.0021	1.6315	560	0.5978	460.3414	715	0.1652	127.2021
410	0.0057	4.3977	565	0.6341	488.3370	720	0.1410	108.5594
415	0.0127	9.7453	570	0.6777	521.9051	725	0.1208	93.0136
420	0.0246	18.9492	575	0.7233	557.0397	730	0.1033	79.5784
425	0.0458	35.2605	580	0.7718	594.3766	735	0.0879	67.7017
430	0.0829	63.8741	585	0.8246	635.0689	740	0.0749	57.7035
435	0.1430	110.1629	590	0.8722	671.6919	745	0.0645	49.6721
440	0.2502	192.7163	595	0.9140	703.8561	750	0.0538	41.4457
445	0.4560	351.1716	600	0.9562	736.3679	755	0.0460	35.4514
450	0.6061	466.7547	605	0.9814	755.7812	760	0.0391	30.1251
455	0.4858	374.0955	610	0.9992	769.4558	765	0.0342	26.3289
460	0.3527	271.6143	615	1.0000	770.1091	770	0.0286	22.0519
465	0.2987	230.0065	620	0.9884	761.1929	775	0.0249	19.2021
470	0.2292	176.4732	625	0.9612	740.2146	780	0.0215	16.5275
475	0.1850	142.4457	630	0.9268	713.7710	785	0.0184	14.1524
480	0.1835	141.3165	635	0.8757	674.3677	790	0.0153	11.8186
485	0.1994	153.5922	640	0.8205	631.8891	795	0.0130	9.9942
490	0.2289	176.2529	645	0.7574	583.2891	800	0.0106	8.1655
495	0.2738	210.8246	650	0.6943	534.6975			
500	0.3219	247.9295	655	0.6266	482.5127			
505	0.3636	279.9908	660	0.5655	435.5210			
510	0.4026	310.0284	665	0.5041	388.1799			
515	0.4327	333.2441	670	0.4451	342.7569			
520	0.4576	352.4070	675	0.3917	301.6761			
525	0.4787	368.6734	680	0.3417	263.1088			
530	0.4970	382.7714	685	0.2977	229.2245			

TM30

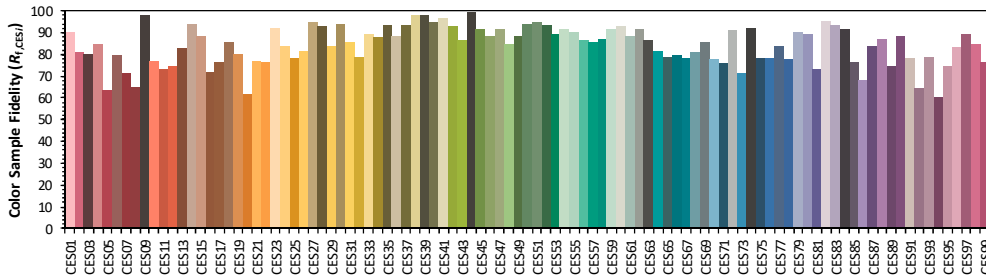
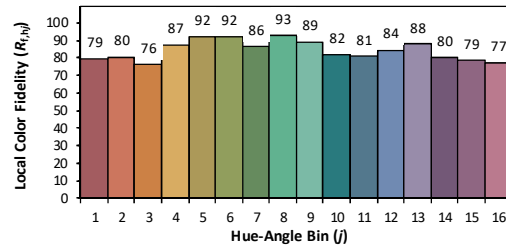
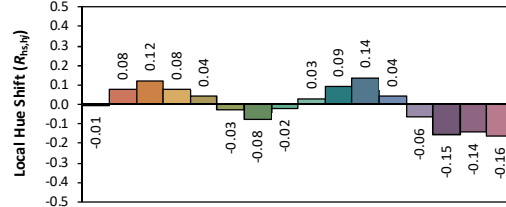
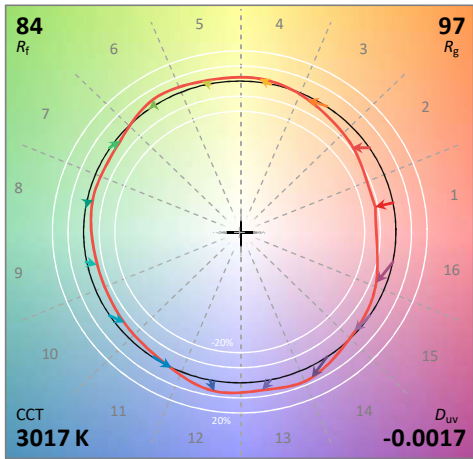
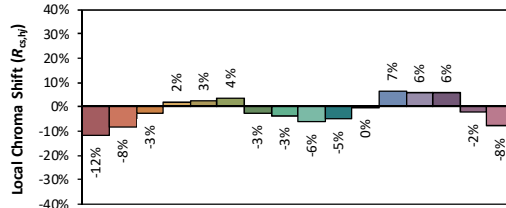
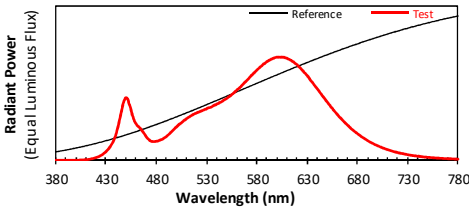
ANSI/IES TM-30-18 Color Rendition Report

Source: L128-3080RC35003P1

Manufacturer: Beyond LED Technology

Date: 2022/7/15

Model: BLT-S-G14B-300WB3A4-BR10SP50



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

x 0.4333
 y 0.3986
 u' 0.2506
 v' 0.5187

CIE 13.3-1995 (CRI)	
R_a	82
R_9	5

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



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Zonal Lumen Tabulation

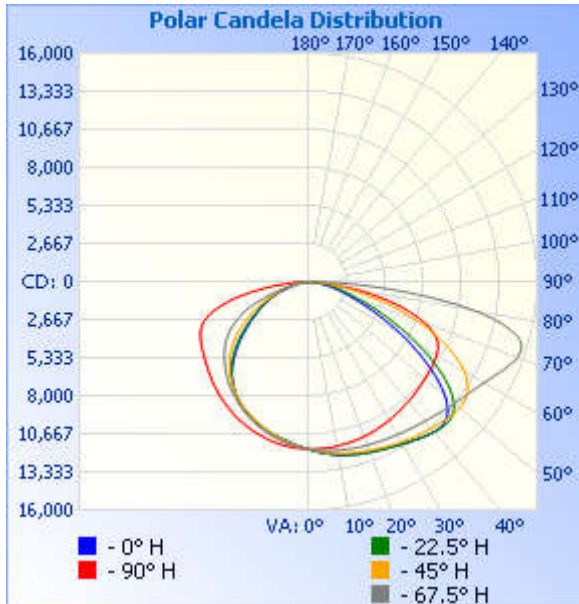
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	9,645.7	21.2%	21.2%
0-40	16,558.2	36.5%	36.5%
0-60	32,793.1	72.2%	72.2%
60-90	12,618.0	27.8%	27.8%
70-100	5,773.4	12.7%	12.7%
90-120	0	0%	0%
0-90	45,411.1	100%	100%
90-180	0	0%	0%
0-180	45,411.1	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,116.9	2.5%	90-100	0	0%
10-20	3,281.3	7.2%	100-110	0	0%
20-30	5,247.6	11.6%	110-120	0	0%
30-40	6,912.5	15.2%	120-130	0	0%
40-50	8,084.9	17.8%	130-140	0	0%
50-60	8,150.0	17.9%	140-150	0	0%
60-70	6,844.6	15.1%	150-160	0	0%
70-80	4,459.4	9.8%	160-170	0	0%
80-90	1,314.0	2.9%	170-180	0	0%

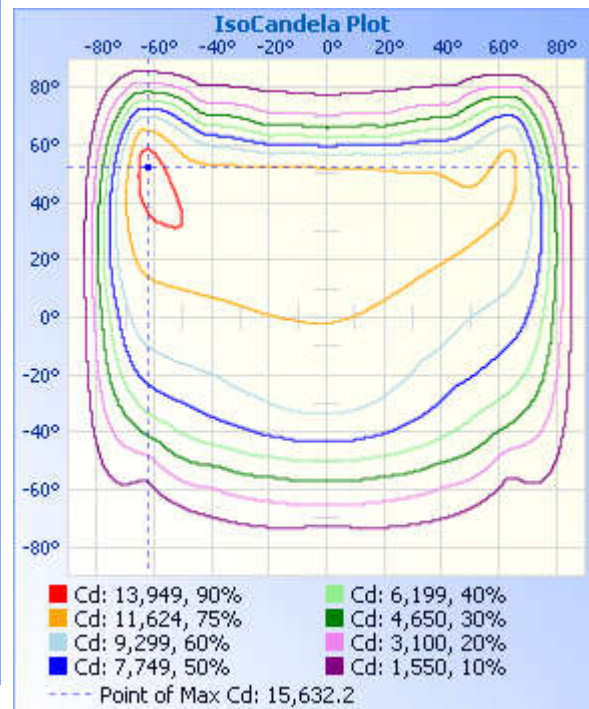
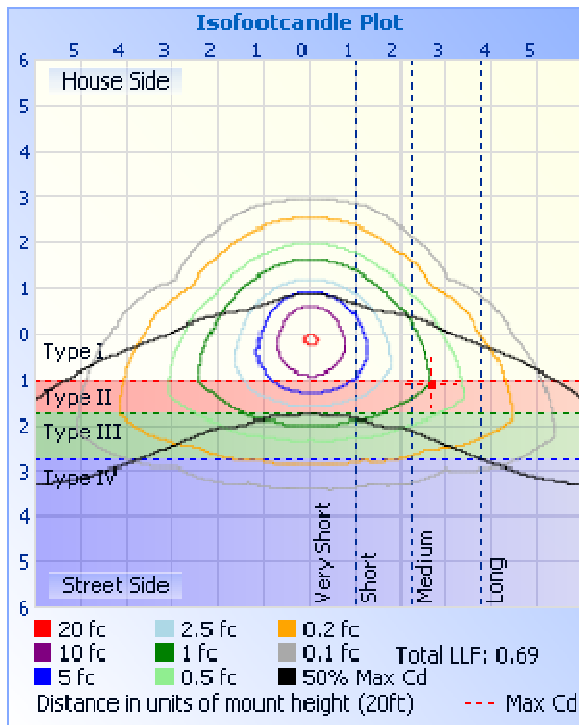
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	40.6 fc	38.0 ft	116.4 ft
34.0ft	10.1 fc	76.1 ft	232.7 ft
51.0ft	4.51 fc	114.1 ft	349.1 ft
68.0ft	2.54 fc	152.2 ft	465.5 ft
85.0ft	1.62 fc	190.2 ft	581.9 ft
102.0ft	1.13 fc	228.3 ft	698.2 ft

■ Vert. Spread: 96.4°
■ Horiz. Spread: 147.4°





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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	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726	11726
1	11793	11798	11782	11757	11726	11692	11685	11667	11672	11672	11680	11693	11700	11735	11767	11786	11793
2	11869	11861	11818	11782	11728	11673	11638	11613	11605	11608	11627	11654	11698	11747	11797	11840	11869
3	11932	11909	11891	11824	11730	11654	11594	11563	11547	11536	11563	11620	11697	11762	11848	11896	11932
4	11996	11969	11935	11857	11731	11622	11546	11502	11485	11486	11515	11579	11683	11788	11891	11958	11996
5	12047	12047	11984	11867	11730	11593	11495	11435	11431	11438	11454	11521	11666	11799	11923	12008	12047
6	12100	12105	12031	11898	11728	11569	11448	11378	11353	11372	11404	11478	11650	11811	11946	12060	12100
7	12160	12158	12072	11925	11730	11540	11406	11323	11298	11321	11339	11431	11616	11797	11980	12107	12160
8	12227	12204	12104	11959	11721	11503	11352	11282	11247	11232	11288	11377	11600	11798	12012	12152	12227
9	12283	12255	12156	11976	11710	11470	11303	11221	11187	11179	11220	11339	11572	11803	12052	12214	12283
10	12327	12307	12199	12001	11702	11422	11250	11164	11137	11120	11164	11292	11547	11803	12084	12248	12327
11	12382	12354	12234	12015	11678	11382	11192	11099	11077	11055	11090	11216	11516	11814	12108	12286	12382
12	12419	12400	12277	12029	11657	11343	11133	11046	11019	11009	11027	11165	11494	11813	12124	12327	12419
13	12459	12445	12318	12048	11656	11302	11077	10994	10963	10954	10964	11102	11451	11813	12145	12357	12459
14	12491	12487	12355	12071	11644	11253	11025	10935	10901	10886	10899	11043	11415	11822	12167	12389	12491
15	12522	12541	12386	12084	11629	11207	10972	10877	10838	10816	10833	10974	11358	11814	12179	12415	12522
16	12560	12579	12424	12104	11610	11163	10914	10825	10781	10749	10764	10910	11319	11797	12203	12443	12560
17	12594	12613	12460	12130	11581	11112	10849	10758	10717	10683	10694	10842	11279	11795	12223	12465	12594
18	12629	12655	12495	12152	11568	11063	10786	10678	10652	10621	10608	10775	11236	11788	12231	12488	12629
19	12664	12680	12533	12169	11549	11001	10720	10611	10587	10551	10534	10701	11202	11786	12266	12516	12664
20	12693	12717	12582	12181	11526	10947	10659	10552	10516	10477	10462	10625	11154	11790	12282	12552	12693
21	12731	12768	12615	12201	11501	10889	10592	10488	10442	10417	10385	10539	11104	11785	12282	12573	12731
22	12758	12799	12643	12214	11483	10845	10521	10425	10376	10337	10315	10460	11055	11767	12297	12596	12758
23	12805	12829	12681	12240	11464	10790	10456	10353	10301	10245	10235	10395	11002	11761	12315	12623	12805
24	12845	12879	12720	12260	11430	10713	10375	10269	10220	10169	10141	10309	10946	11752	12334	12652	12845
25	12888	12920	12772	12274	11394	10655	10305	10186	10134	10095	10062	10219	10885	11755	12354	12686	12888
26	12917	12957	12816	12302	11368	10604	10226	10101	10043	10008	9980	10139	10830	11739	12367	12717	12917
27	12964	13005	12852	12322	11334	10541	10151	10017	9953	9925	9896	10052	10777	11734	12383	12750	12964
28	13018	13050	12887	12349	11311	10480	10064	9927	9854	9820	9809	9958	10720	11719	12400	12783	13018

29	13080	13113	12930	12358	11282	10419	9986	9838	9755	9723	9714	9873	10662	11714	12419	12817	13080
30	13136	13160	12975	12387	11249	10338	9899	9734	9655	9626	9615	9781	10589	11713	12434	12863	13136
31	13179	13211	13015	12409	11218	10269	9815	9631	9545	9519	9514	9695	10524	11700	12449	12894	13179
32	13263	13247	13060	12460	11181	10191	9723	9531	9433	9415	9419	9604	10467	11694	12470	12933	13263
33	13304	13307	13103	12490	11154	10124	9615	9416	9317	9303	9305	9498	10397	11687	12486	12980	13304
34	13372	13366	13151	12516	11109	10053	9518	9300	9178	9183	9199	9406	10337	11681	12514	13026	13372
35	13433	13419	13197	12549	11078	9982	9421	9173	9058	9036	9104	9314	10273	11680	12525	13073	13433
36	13507	13490	13244	12568	11056	9902	9315	9049	8918	8916	8991	9209	10208	11682	12539	13122	13507
37	13573	13544	13287	12611	11011	9810	9207	8907	8774	8792	8860	9117	10145	11695	12558	13178	13573
38	13622	13611	13332	12649	10980	9731	9088	8764	8618	8651	8741	9019	10074	11683	12565	13214	13622
39	13686	13667	13362	12691	10953	9643	8971	8613	8454	8499	8620	8901	10005	11692	12582	13275	13686
40	13730	13728	13411	12727	10937	9557	8842	8458	8270	8342	8494	8789	9928	11701	12597	13317	13730
41	13777	13780	13444	12795	10909	9474	8707	8283	8091	8172	8366	8684	9868	11702	12620	13374	13777
42	13773	13833	13488	12835	10883	9380	8572	8113	7894	7994	8224	8575	9802	11720	12643	13420	13773
43	13772	13865	13545	12884	10843	9297	8428	7926	7684	7815	8081	8472	9729	11731	12655	13457	13772
44	13724	13876	13579	12946	10807	9191	8287	7716	7479	7626	7924	8360	9668	11728	12674	13456	13724
45	13645	13876	13640	12998	10770	9092	8121	7514	7268	7415	7773	8230	9582	11742	12697	13472	13645
46	13526	13853	13668	13063	10741	8999	7958	7299	7029	7205	7606	8121	9515	11753	12719	13445	13526
47	13339	13780	13713	13124	10707	8894	7798	7080	6802	6976	7440	8007	9446	11767	12739	13354	13339
48	13108	13670	13740	13183	10690	8781	7615	6870	6571	6762	7260	7891	9381	11782	12739	13263	13108
49	12850	13500	13766	13254	10650	8670	7412	6620	6336	6542	7080	7762	9291	11805	12758	13119	12850
50	12526	13310	13779	13312	10620	8559	7217	6387	6099	6308	6892	7634	9233	11810	12756	12923	12526
51	12149	13041	13780	13380	10603	8436	7011	6153	5853	6077	6691	7508	9173	11843	12752	12697	12149
52	11718	12739	13766	13457	10585	8307	6795	5903	5620	5825	6486	7372	9113	11872	12730	12403	11718
53	11276	12383	13724	13519	10558	8175	6575	5661	5384	5595	6272	7239	9055	11896	12698	12056	11276
54	10788	11986	13671	13610	10535	8035	6328	5423	5155	5361	6054	7089	8970	11900	12647	11675	10788
55	10297	11535	13590	13685	10507	7872	6087	5194	4938	5134	5820	6941	8914	11949	12557	11260	10297
56	9780	11062	13465	13777	10478	7723	5827	4948	4729	4905	5593	6776	8861	11980	12438	10801	9780
57	9284	10571	13315	13869	10460	7550	5578	4731	4535	4687	5357	6609	8809	12000	12287	10326	9284
58	8729	10049	13106	13961	10426	7372	5322	4519	4321	4472	5116	6437	8757	12056	12110	9843	8729
59	8223	9543	12882	14070	10394	7167	5057	4309	4133	4257	4879	6245	8699	12088	11904	9330	8223

60	7704	8995	12605	14201	10361	6934	4792	4096	3948	4053	4630	6038	8638	12131	11658	8825	7704
61	7195	8492	12301	14318	10306	6699	4537	3904	3763	3868	4400	5834	8585	12195	11338	8324	7195
62	6680	7972	11945	14444	10257	6453	4284	3714	3590	3677	4156	5614	8518	12254	11013	7817	6680
63	6185	7421	11591	14580	10193	6181	4026	3520	3417	3495	3920	5378	8449	12303	10663	7294	6185
64	5680	6887	11156	14737	10094	5896	3781	3343	3237	3308	3695	5122	8374	12391	10266	6775	5680
65	5229	6392	10717	14892	9985	5572	3525	3160	3072	3137	3456	4847	8306	12464	9862	6288	5229
66	4787	5888	10245	15033	9832	5234	3296	2992	2896	2963	3230	4566	8219	12534	9417	5787	4787
67	4375	5388	9778	15175	9657	4851	3054	2814	2714	2796	3020	4237	8105	12602	8968	5304	4375
68	4014	4960	9294	15307	9423	4441	2828	2651	2515	2630	2816	3912	7964	12678	8486	4881	4014
69	3656	4517	8771	15461	9160	4019	2614	2477	2314	2469	2605	3551	7809	12753	8032	4479	3656
70	3326	4112	8224	15560	8846	3590	2396	2298	2090	2286	2400	3187	7620	12796	7520	4067	3326
71	3035	3752	7670	15624	8485	3139	2190	2104	1865	2098	2215	2800	7395	12845	7008	3692	3035
72	2782	3418	7126	15632	8049	2722	1998	1924	1617	1916	2031	2441	7131	12830	6512	3368	2782
73	2533	3110	6543	15605	7600	2316	1802	1729	1386	1731	1851	2084	6839	12797	5981	3073	2533
74	2319	2843	6007	15479	7118	1963	1619	1541	1206	1545	1679	1775	6485	12686	5489	2793	2319
75	2114	2580	5416	15258	6603	1647	1443	1342	1046	1345	1510	1512	6130	12503	4991	2556	2114
76	1918	2352	4827	14830	6100	1391	1263	1130	921	1138	1327	1273	5743	12232	4480	2314	1918
77	1719	2140	4289	14323	5559	1164	1099	955	805	964	1155	1076	5318	11831	3994	2111	1719
78	1503	1942	3787	13692	4941	981	945	806	707	815	1015	904	4859	11347	3536	1918	1503
79	1293	1752	3301	12903	4344	826	797	666	614	682	858	761	4370	10739	3102	1736	1293
80	1125	1564	2870	11913	3747	692	659	550	515	566	730	642	3822	10015	2708	1546	1125
81	980	1373	2491	10808	3207	571	527	429	423	454	589	525	3323	9123	2362	1379	980
82	840	1181	2144	9528	2630	466	392	331	340	358	455	418	2829	8027	2053	1189	840
83	727	998	1808	8170	2101	365	272	243	239	267	323	330	2339	6872	1761	1010	727
84	613	823	1497	6772	1622	278	171	157	155	179	214	247	1874	5705	1481	846	613
85	507	658	1213	5414	1151	199	98	90	98	112	133	172	1419	4545	1226	691	507
86	410	520	947	4114	743	125	44	52	58	69	68	107	999	3427	997	542	410
87	323	390	711	3029	391	70	22	20	19	25	39	56	615	2374	762	423	323
88	216	267	477	1974	145	28	17	22	15	22	24	37	302	1461	540	297	216
89	123	147	265	1098	49	25	18	16	14	22	21	38	113	672	338	178	123
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Report No.:
BLC2207025E-E-PL

BUG Rating

Lum. Classification System (LCS)

<u>LCS Zone</u>	<u>Lumens</u>	<u>%Lamp</u>	<u>%Lum</u>
FL (0-30)	5157.9	11.4	11.4
FM (30-60)	14142.3	31.1	31.1
FH (60-80)	8003.1	17.6	17.6
FVH(80-90)	1118.8	2.5	2.5
BL (0-30)	4487.7	9.9	9.9
BM (30-60)	9009.2	19.8	19.8
BH (60-80)	3300.1	7.3	7.3
BVH(80-90)	195.0	0.4	0.4
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	45414.1	100.0	100.0
BUG Rating	B5-U0-G5		

2.2 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction BL-QP-033)

Test date	2022-09-05	Test Ambient:	25.2 ° C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	BLT-S-G14B-300WBT3A4-BR10SP50		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC220702	120.0	60	2.521	300.65	0.994	9.18
5E-E2	277.0	60	1.163	302.56	0.939	11.52
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

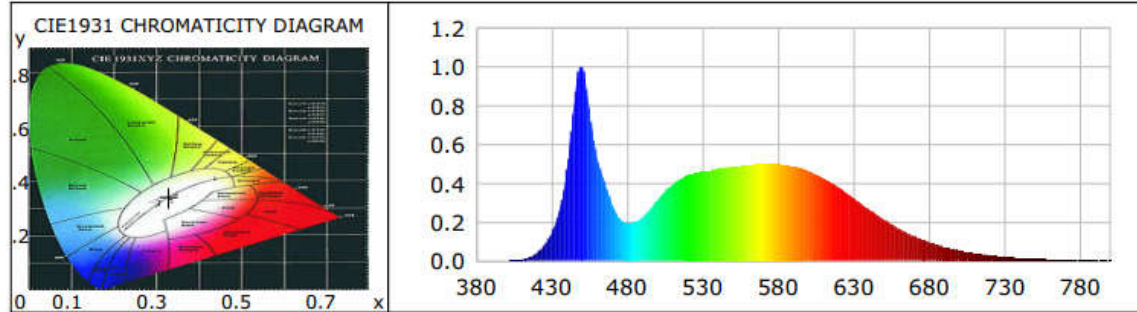
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	7
Frequency (Hz)	60	R2	86	R10	67
CCT (K)	5671	R3	89	R11	83
Duv	0.0016	R4	83	R12	59
Chromaticity (x, y)	x=0.3286 y=0.3407	R5	82	R13	82
Chromaticity (u', v')	u(u')=0.2044v'=0.4768	R6	81	R14	94
Color Rendering Index (CRI)	82	R7	87	R15	77
R9	7	R8	69	--	--
Rf	82	--	--	--	--
Rg	96	--	--	--	--
Rcs,h1(%)	-13				

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)	49111.2	47679.6	>=10000(-10%)
Luminous Efficacy (lm/W)	163.35	165.38	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	158.59		

Spectral Power Distribution & Chromaticity Diagram



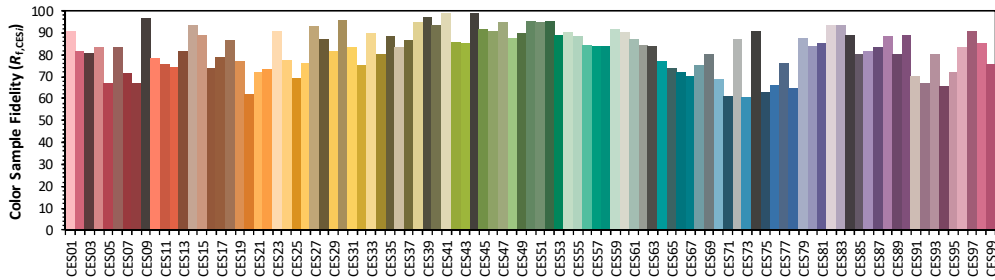
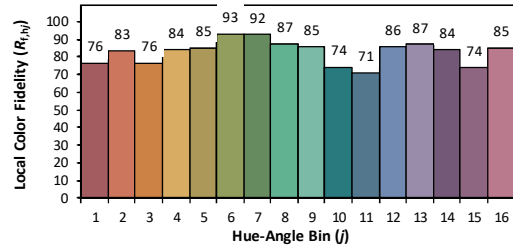
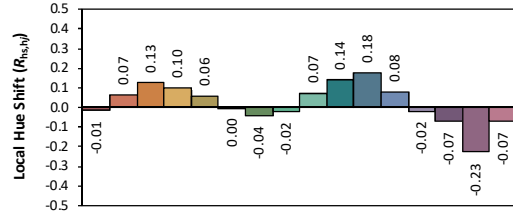
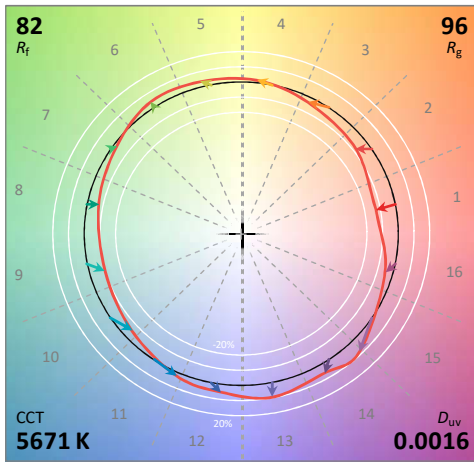
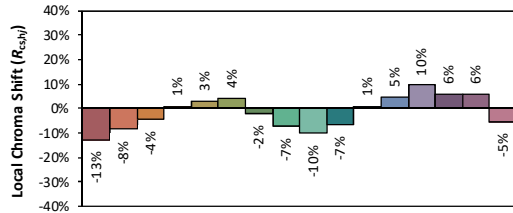
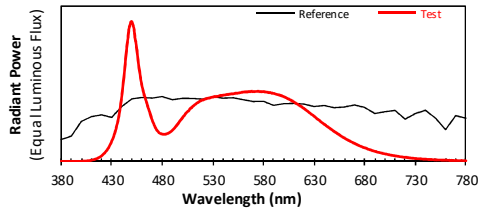
WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0004	0.5651	535	0.4528	580.8477	690	0.1281	164.3581
385	0.0002	0.2353	540	0.4593	589.2315	695	0.1115	143.0754
390	0.0003	0.3889	545	0.4664	598.3101	700	0.0965	123.7655
395	0.0008	1.0405	550	0.4739	607.9165	705	0.0832	106.6848
400	0.0008	1.0789	555	0.4784	613.6329	710	0.0717	91.9641
405	0.0030	3.8403	560	0.4838	620.5543	715	0.0619	79.4229
410	0.0079	10.1335	565	0.4891	627.4281	720	0.0538	68.9581
415	0.0187	24.0321	570	0.4956	635.7465	725	0.0462	59.2775
420	0.0391	50.1880	575	0.5002	641.6683	730	0.0389	49.8710
425	0.0776	99.4817	580	0.5004	641.9250	735	0.0330	42.2894
430	0.1436	184.2081	585	0.5020	643.9131	740	0.0283	36.2558
435	0.2567	329.2859	590	0.5002	641.6432	745	0.0247	31.6888
440	0.4687	601.2293	595	0.4930	632.3990	750	0.0203	26.0267
445	0.8240	1057.0301	600	0.4872	624.9784	755	0.0173	22.1346
450	1.0000	1282.7598	605	0.4764	611.1382	760	0.0150	19.2131
455	0.7867	1009.0914	610	0.4638	594.9399	765	0.0131	16.8528
460	0.5382	690.3597	615	0.4470	573.4357	770	0.0107	13.7310
465	0.4090	524.6645	620	0.4258	546.2202	775	0.0093	11.9256
470	0.2948	378.2164	625	0.4036	517.6991	780	0.0074	9.5344
475	0.2188	280.7133	630	0.3792	486.3836	785	0.0072	9.2610
480	0.1953	250.5662	635	0.3512	450.4736	790	0.0059	7.6232
485	0.1991	255.3691	640	0.3231	414.5041	795	0.0046	5.9443
490	0.2227	285.6597	645	0.2953	378.8169	800	0.0037	4.7583
495	0.2647	339.5536	650	0.2659	341.1009			
500	0.3128	401.2385	655	0.2396	307.3664			
505	0.3558	456.3611	660	0.2141	274.6495			
510	0.3939	505.3110	665	0.1905	244.3489			
515	0.4208	539.7341	670	0.1679	215.4072			
520	0.4390	563.0868	675	0.1470	188.6242			
525	0.4528	580.8477	680	0.1281	164.3581			
530	0.4593	589.2315	685	0.1115	143.0754			

TM30

ANSI/IES TM-30-18 Color Rendition Report

Source: L128-5780RC35003P1
Date: 2022/9/5

Manufacturer: Beyond LED Technology
Model: BLT-S-G14B-300WBT3A4-BR10SP50



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

x 0.3286
 y 0.3407
 u' 0.2044
 v' 0.4768

CIE 13.3-1995 (CRI)	
R_a	82
R_9	7

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



Report No.:
BLC2207025E-E-PL

Calculated Efficacy Data for family models:

Model Number	Luminous Flux (lm)	Power (W)	Efficacy (lm/W)
BLT-S-G14B-300WBT3A4-BR10SP50	45414.1	297.31	152.75
BLT-S-G14B-300WBT3A4-BR10SP50	46799.2	301.25	155.35
BLT-S-G14B-300WBT3A4-BR10SP50	48164.9	300.58	160.24
BLT-S-G14B-300WBT3A4-BR10SP50	48720.7	302.35	161.14
BLT-S-G14B-300WBT3A4-BR10SP50	48796.8	300.14	162.58
BLT-S-G14B-300WBT3A4-BR10SP50	49111.2	300.65	163.35

3. Test Equipment

Equipment Name	Model No.	Serial No.	Calibration Date
Goniophotometric System	GPM-3000	DYHXF120001	2022-01-18
AC Power Source	CHP-500C	DYBWD010159	2022-01-25
Total Luminous Flux Standard Lamp	24V/150W	DYJYR040040	2022-01-25
Digital Power Meter	WT500	DYDWQ20010	2022-01-25
Integral Sphere (2M)	2M	DYJCE120067	2022-01-18
Digital Power Meter	WT500	DYDWQ200006	2022-01-25
Optical Color and Electrical Measurement System	CMS-3000S	DYJCE120067	2022-01-18
Expand Uncertainty: Photometric Measurement (Sphere): 2.08%, k=2 Chromaticity Measurement(Sphere):25.6K, k=2 Photometric Measurement(Goniophotometer):2.645%, k=2			

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