



Report No.:
BLC2207025E-A-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-100WBT3A4-BR10SP5

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-100WBT3A4-BR10SP5

BLT-S-G14B-100WBT3A4-BR10SP5

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:

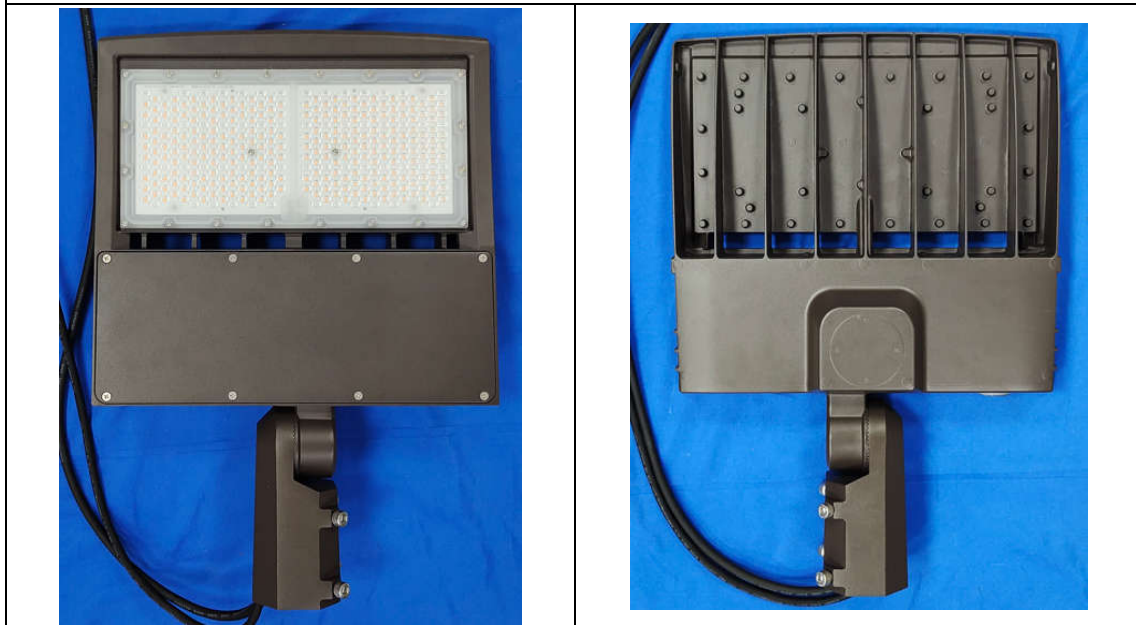
Jason Luo

Manager: Jason Luo

1.1 Product Information:

Organization Name	Beyond LED Technology	
Brand Name	Beyond LED Technology	
Model Number	BLT-S-G14B-100WBT3A4-BR10SP5	
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	100W(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-A1(3000K),A3(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-100WBT3A4-abcdeW30:1.021

AST-S-G14B-100WBT3A4-abcdeW57:1.022

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-100WBT3A4-BR10SP5		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC220702	120.0	60	0.850	101.15	0.992	11.94
5E-A1	277.0	60	0.382	99.9	0.945	12.31
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

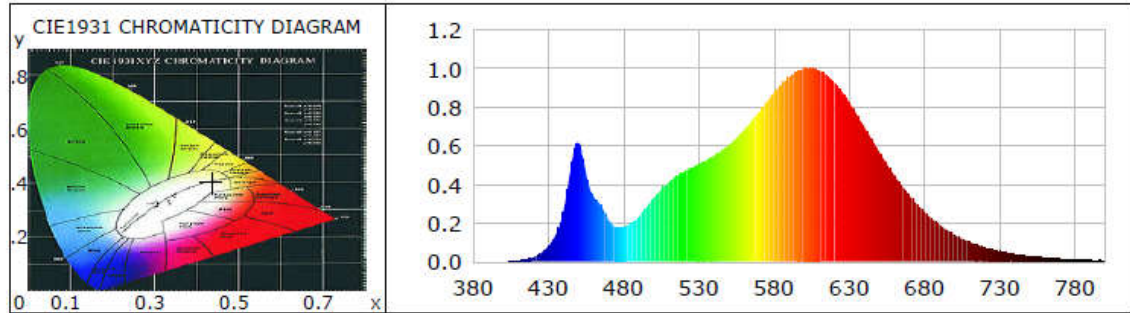
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	6
Frequency (Hz)	60	R2	91	R10	79
CCT (K)	3020	R3	96	R11	81
Duv	-0.0014	R4	81	R12	72
Chromaticity (x, y)	x=0.4336 y=0.3995	R5	82	R13	83
Chromaticity (u', v')	u'(u')=0.2504 v'(v')=0.5191	R6	89	R14	99
Color Rendering Index (CRI)	83	R7	81	R15	74
R9	6	R8	58	--	--
Rf	84	--	--	--	--
Rg	97	--	--	--	--
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)	15401.1	15288.7	>=10000(-10%)
Luminous Efficacy (lm/W)	152.26	153.04	Premium: >= 120(-3%)
Most worst Luminous/Highest	151.15		
Zonal lumens in the 0-90° zone (%)	100	--	Category 1: >=100(-1) Category 2: >=85(-3)
Zonal lumens in the 80-90°zone (%)	2.2	--	<=10(+3)
Beam Angle (°)	147.6	--	--
Center Beam Candle Power (cd)	4007	--	--

Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0002	0.0587	535	0.4850	136.2067	690	0.3422	96.0941
385	0.0005	0.1343	540	0.5019	140.9455	695	0.2984	83.7857
390	0.0003	0.0811	545	0.5220	146.5979	700	0.2592	72.7818
395	0.0003	0.0955	550	0.5470	153.6134	705	0.2226	62.5190
400	0.0007	0.2085	555	0.5715	160.4840	710	0.1913	53.7327
405	0.0017	0.4694	560	0.6020	169.0450	715	0.1642	46.1051
410	0.0049	1.3890	565	0.6373	178.9788	720	0.1396	39.2098
415	0.0107	3.0094	570	0.6803	191.0401	725	0.1199	33.6680
420	0.0214	6.0164	575	0.7257	203.8003	730	0.1015	28.5025
425	0.0420	11.7934	580	0.7724	216.9150	735	0.0867	24.3605
430	0.0778	21.8602	585	0.8248	231.6168	740	0.0741	20.7999
435	0.1388	38.9771	590	0.8721	244.9112	745	0.0633	17.7885
440	0.2551	71.6376	595	0.9126	256.2881	750	0.0537	15.0804
445	0.4796	134.6941	600	0.9533	267.7100	755	0.0451	12.6606
450	0.6190	173.8304	605	0.9813	275.5789	760	0.0385	10.8232
455	0.4681	131.4662	610	0.9988	280.4766	765	0.0330	9.2810
460	0.3391	95.2349	615	1.0000	280.8231	770	0.0286	8.0303
465	0.2907	81.6426	620	0.9902	278.0744	775	0.0239	6.7242
470	0.2177	61.1415	625	0.9655	271.1409	780	0.0204	5.7197
475	0.1770	49.7047	630	0.9319	261.6878	785	0.0170	4.7815
480	0.1790	50.2680	635	0.8831	248.0003	790	0.0151	4.2406
485	0.1971	55.3480	640	0.8255	231.8126	795	0.0127	3.5576
490	0.2290	64.2969	645	0.7656	215.0067	800	0.0100	2.8200
495	0.2772	77.8571	650	0.7008	196.7982			
500	0.3266	91.7286	655	0.6338	177.9991			
505	0.3702	103.9662	660	0.5692	159.8322			
510	0.4087	114.7852	665	0.5077	142.5692			
515	0.4402	123.6206	670	0.4464	125.3579			
520	0.4631	130.0602	675	0.3934	110.4733			
525	0.4850	136.2067	680	0.3422	96.0941			
530	0.5019	140.9455	685	0.2984	83.7857			

TM30

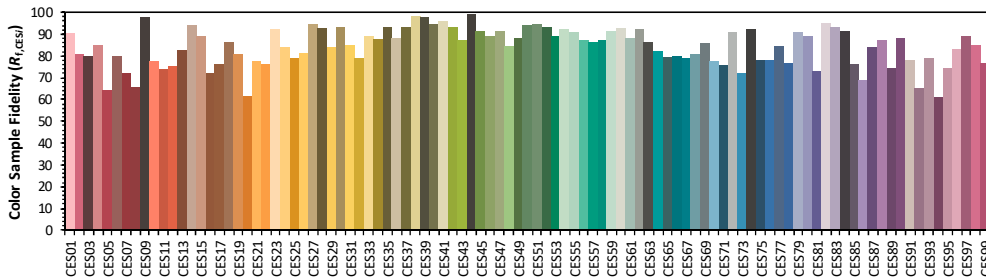
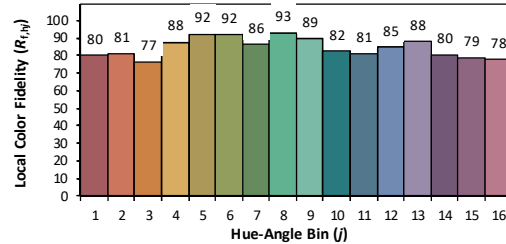
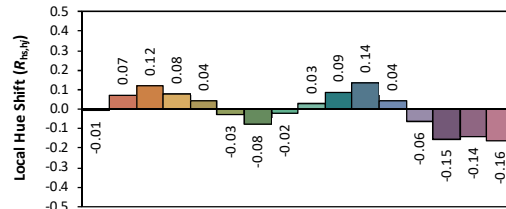
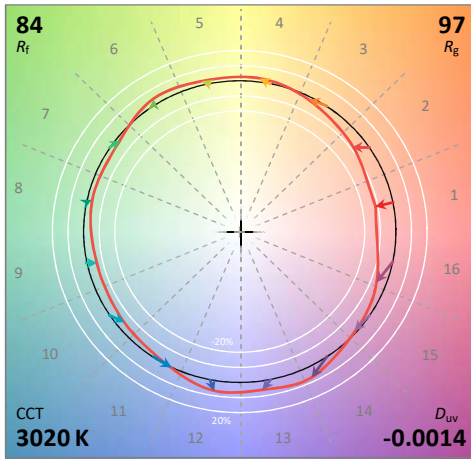
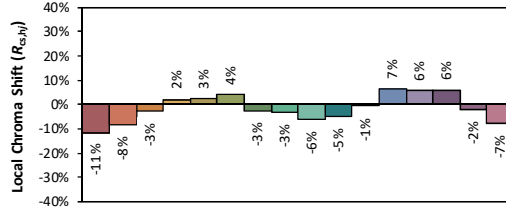
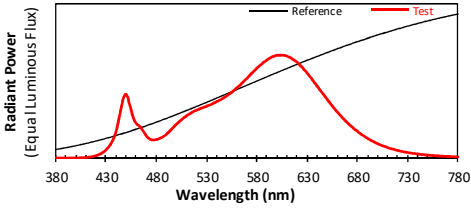
ANSI/IES TM-30-18 Color Rendition Report

Source: L128-3080RC35003P1

Manufacturer: Beyond LED Technology

Date: 2022/7/15

Model: BLT-S-G14B-100WBT3A4-BR10SP5



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

x 0.4336
 y 0.3995
 u' 0.2504
 v' 0.5191

CIE 13.3-1995 (CRI)
 R_a 83
 R_g 6

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



Report No.:
BLC2207025E-A-PL

Zonal Lumen Tabulation

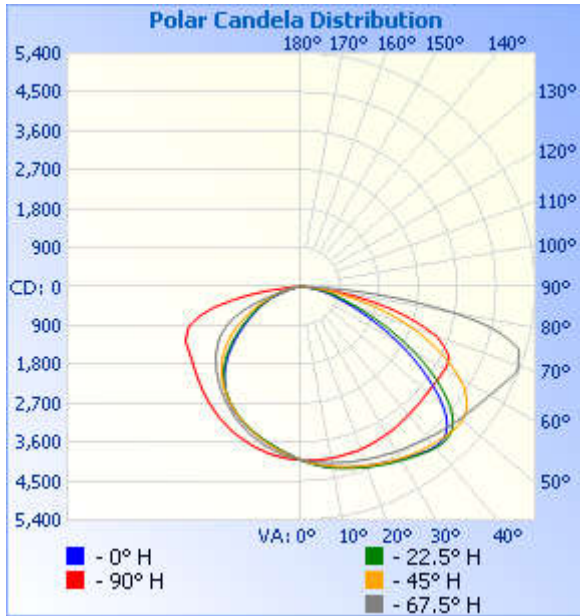
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3,297.4	21.4%	21.4%
0-40	5,674.9	36.8%	36.8%
0-60	11,259.8	73.1%	73.1%
60-90	4,140.2	26.9%	26.9%
70-100	1,804.9	11.7%	11.7%
90-120	0	0%	0%
0-90	15,400.0	100%	100%
90-180	0	0%	0%
0-180	15,400.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	381.4	2.5%	90-100	0	0%
10-20	1,120.0	7.3%	100-110	0	0%
20-30	1,796.0	11.7%	110-120	0	0%
30-40	2,377.5	15.4%	120-130	0	0%
40-50	2,788.3	18.1%	130-140	0	0%
50-60	2,796.6	18.2%	140-150	0	0%
60-70	2,335.3	15.2%	150-160	0	0%
70-80	1,463.8	9.5%	160-170	0	0%
80-90	341.2	2.2%	170-180	0	0%

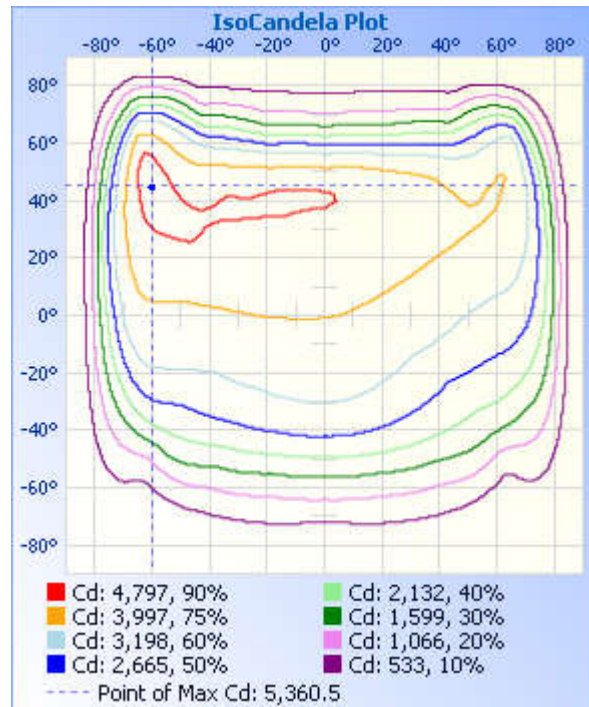
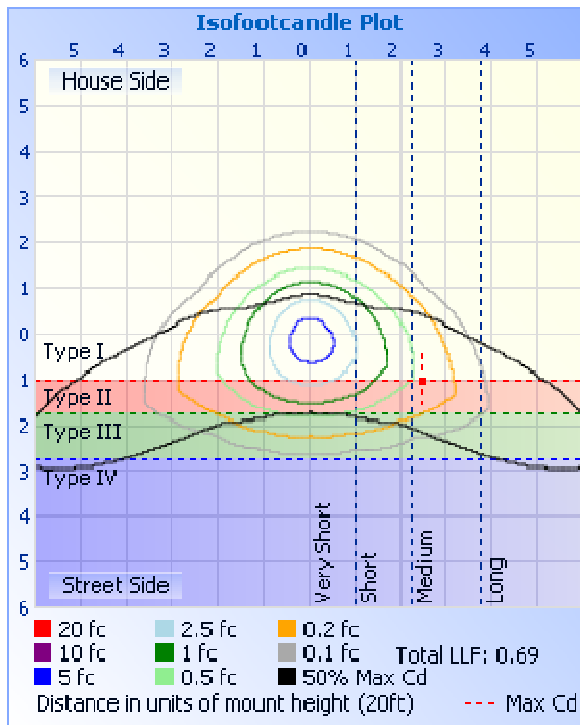
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	13.9 fc	40.9 ft	116.9 ft
34.0ft	3.47 fc	81.8 ft	233.8 ft
51.0ft	1.54 fc	122.6 ft	350.6 ft
68.0ft	0.87 fc	163.5 ft	467.5 ft
85.0ft	0.55 fc	204.4 ft	584.4 ft
102.0ft	0.39 fc	245.3 ft	701.3 ft

■ Vert. Spread: 100.5°
■ Horiz. Spread: 147.6°



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	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007	4007
1	4034	4035	4028	4020	4009	4002	3991	3975	3979	3981	3985	3990	4002	4013	4027	4027	4034
2	4061	4064	4055	4035	4016	3991	3971	3952	3952	3954	3961	3976	4001	4020	4041	4053	4061
3	4083	4085	4078	4045	4017	3984	3959	3925	3919	3926	3939	3956	3995	4024	4053	4074	4083
4	4110	4118	4100	4054	4027	3975	3935	3902	3895	3904	3914	3938	3992	4024	4072	4100	4110
5	4134	4144	4122	4075	4029	3968	3924	3878	3870	3867	3887	3925	3982	4027	4080	4113	4134
6	4162	4166	4139	4085	4031	3959	3897	3852	3843	3844	3863	3908	3972	4027	4098	4142	4162
7	4183	4190	4160	4101	4026	3943	3877	3829	3819	3813	3833	3890	3962	4031	4110	4156	4183
8	4207	4212	4179	4116	4028	3931	3855	3797	3795	3787	3815	3866	3957	4036	4122	4176	4207
9	4219	4238	4203	4130	4028	3920	3833	3778	3764	3763	3789	3847	3948	4034	4130	4187	4219
10	4241	4260	4223	4138	4031	3909	3810	3750	3738	3738	3764	3826	3938	4037	4139	4204	4241
11	4262	4275	4240	4147	4024	3894	3788	3724	3716	3711	3737	3805	3926	4030	4145	4221	4262
12	4278	4296	4259	4165	4024	3878	3765	3701	3691	3684	3710	3787	3913	4029	4155	4237	4278
13	4301	4313	4276	4173	4021	3862	3743	3682	3664	3659	3682	3760	3896	4030	4164	4252	4301
14	4314	4330	4291	4188	4018	3848	3722	3656	3643	3633	3657	3736	3884	4031	4166	4265	4314
15	4327	4347	4308	4202	4015	3831	3699	3630	3616	3606	3632	3712	3878	4025	4177	4278	4327
16	4343	4369	4329	4216	4011	3809	3673	3606	3596	3578	3604	3683	3860	4030	4179	4293	4343
17	4356	4384	4347	4226	4011	3795	3648	3579	3565	3554	3577	3658	3847	4023	4185	4302	4356
18	4373	4402	4367	4237	4019	3771	3627	3554	3542	3534	3553	3635	3830	4023	4191	4316	4373
19	4396	4427	4387	4248	4015	3757	3604	3534	3516	3501	3522	3610	3810	4023	4199	4327	4396
20	4408	4444	4405	4256	4005	3738	3582	3508	3492	3474	3489	3585	3795	4020	4207	4341	4408
21	4430	4464	4421	4273	4000	3716	3555	3481	3470	3446	3458	3553	3775	4013	4206	4351	4430
22	4448	4477	4443	4290	3996	3691	3527	3453	3441	3423	3432	3526	3758	4019	4217	4365	4448
23	4467	4500	4459	4304	3990	3673	3500	3431	3414	3397	3404	3493	3743	4012	4230	4373	4467
24	4480	4515	4478	4314	3985	3654	3476	3404	3384	3369	3379	3467	3728	4010	4236	4386	4480
25	4495	4544	4503	4325	3976	3635	3450	3372	3355	3338	3348	3439	3716	4004	4236	4401	4495
26	4520	4560	4521	4334	3972	3614	3423	3346	3328	3310	3313	3410	3691	4001	4243	4419	4520
27	4544	4577	4533	4348	3961	3591	3397	3318	3297	3281	3287	3377	3669	4001	4251	4433	4544
28	4569	4598	4548	4368	3957	3568	3368	3284	3268	3250	3249	3347	3647	3999	4260	4454	4569

29	4586	4617	4569	4389	3950	3539	3337	3258	3239	3218	3220	3314	3628	3999	4264	4472	4586
30	4611	4640	4585	4404	3940	3523	3308	3221	3198	3184	3191	3278	3609	3996	4272	4491	4611
31	4633	4658	4610	4417	3940	3493	3280	3188	3167	3156	3154	3245	3593	3993	4279	4506	4633
32	4653	4682	4623	4429	3934	3472	3254	3156	3128	3120	3123	3211	3565	3991	4283	4525	4653
33	4679	4703	4643	4442	3922	3450	3219	3118	3092	3077	3084	3183	3539	3988	4290	4545	4679
34	4698	4727	4657	4458	3918	3423	3186	3084	3050	3038	3052	3147	3518	3985	4295	4561	4698
35	4731	4746	4670	4473	3908	3395	3156	3042	3007	3003	3018	3110	3499	3983	4302	4579	4731
36	4750	4766	4690	4494	3895	3369	3122	3003	2965	2961	2982	3078	3478	3980	4309	4603	4750
37	4775	4791	4701	4510	3884	3347	3089	2961	2916	2915	2943	3049	3451	3980	4322	4630	4775
38	4800	4814	4715	4529	3878	3321	3055	2917	2862	2872	2906	3008	3431	3976	4329	4652	4800
39	4814	4833	4733	4550	3874	3297	3016	2868	2813	2827	2868	2976	3404	3976	4335	4674	4814
40	4830	4854	4746	4561	3869	3261	2973	2816	2758	2774	2822	2942	3380	3970	4338	4690	4830
41	4832	4871	4761	4582	3861	3235	2935	2762	2702	2720	2780	2905	3361	3973	4350	4703	4832
42	4828	4881	4778	4608	3853	3207	2890	2703	2638	2666	2737	2865	3341	3972	4357	4712	4828
43	4813	4876	4793	4626	3848	3179	2848	2642	2573	2612	2692	2828	3319	3976	4361	4718	4813
44	4787	4864	4801	4647	3840	3150	2805	2583	2510	2545	2645	2797	3297	3971	4373	4720	4787
45	4748	4847	4820	4664	3842	3122	2760	2523	2437	2484	2590	2762	3265	3975	4378	4705	4748
46	4683	4822	4831	4690	3829	3089	2712	2453	2366	2416	2541	2724	3241	3975	4388	4681	4683
47	4607	4773	4836	4705	3824	3060	2656	2379	2290	2350	2486	2683	3226	3978	4393	4646	4607
48	4516	4711	4844	4724	3817	3028	2604	2306	2209	2275	2435	2642	3198	3978	4404	4599	4516
49	4393	4643	4847	4753	3814	2994	2552	2230	2129	2203	2379	2608	3177	3985	4401	4517	4393
50	4266	4545	4840	4775	3815	2961	2493	2150	2048	2128	2315	2570	3159	3987	4397	4450	4266
51	4129	4435	4826	4793	3813	2923	2429	2073	1971	2047	2253	2528	3137	3988	4392	4340	4129
52	3977	4303	4808	4813	3811	2891	2359	1982	1892	1964	2191	2486	3114	3991	4359	4224	3977
53	3812	4168	4773	4838	3806	2849	2296	1906	1807	1883	2120	2440	3095	3997	4339	4091	3812
54	3647	4013	4726	4863	3808	2806	2219	1822	1728	1804	2052	2396	3077	4003	4300	3950	3647
55	3475	3853	4672	4892	3814	2762	2141	1741	1650	1719	1983	2349	3057	4009	4253	3794	3475
56	3311	3693	4609	4915	3808	2721	2064	1654	1576	1645	1903	2307	3042	4012	4185	3644	3311
57	3135	3527	4528	4941	3822	2676	1981	1580	1502	1568	1821	2259	3028	4026	4102	3471	3135
58	2958	3360	4438	4976	3823	2617	1892	1501	1430	1488	1744	2207	3015	4032	4010	3300	2958
59	2787	3180	4339	4998	3823	2567	1800	1425	1358	1414	1664	2147	3005	4043	3909	3132	2787

60	2611	3007	4221	5028	3835	2507	1712	1352	1293	1342	1581	2093	2993	4054	3794	2961	2611
61	2439	2828	4089	5067	3833	2441	1625	1282	1228	1270	1499	2027	2981	4074	3663	2786	2439
62	2271	2649	3963	5100	3828	2363	1530	1216	1163	1206	1420	1963	2968	4074	3523	2622	2271
63	2093	2471	3818	5132	3812	2287	1446	1149	1103	1142	1333	1890	2965	4081	3383	2459	2093
64	1931	2293	3664	5172	3798	2204	1356	1083	1048	1084	1257	1815	2959	4103	3239	2274	1931
65	1771	2119	3511	5212	3752	2100	1262	1022	988	1021	1172	1713	2942	4125	3076	2107	1771
66	1623	1947	3346	5253	3680	1993	1179	962	923	959	1101	1604	2910	4129	2920	1940	1623
67	1485	1787	3180	5303	3594	1854	1091	902	861	904	1022	1495	2870	4152	2764	1780	1485
68	1362	1632	3017	5337	3501	1693	1006	846	804	849	948	1383	2839	4126	2595	1636	1362
69	1245	1490	2844	5361	3415	1528	925	782	739	789	880	1248	2810	4096	2422	1496	1245
70	1137	1357	2661	5344	3305	1372	852	727	665	737	806	1110	2767	4093	2249	1354	1137
71	1034	1230	2481	5296	3130	1202	768	666	586	675	726	953	2696	4098	2076	1240	1034
72	953	1123	2286	5281	2929	1037	690	614	499	612	665	822	2602	4096	1908	1126	953
73	873	1028	2092	5267	2764	868	614	555	429	549	598	700	2513	4031	1739	1036	873
74	801	934	1907	5219	2579	731	548	488	378	486	543	590	2418	3944	1551	942	801
75	728	854	1699	5074	2362	610	490	423	330	422	481	491	2283	3888	1375	868	728
76	652	778	1487	4876	2160	507	428	360	287	355	424	409	2141	3780	1219	785	652
77	579	700	1303	4699	1923	420	375	300	252	307	371	335	1975	3597	1072	711	579
78	503	622	1136	4434	1690	347	327	249	218	251	315	282	1786	3406	930	640	503
79	418	544	985	4098	1452	288	272	197	177	210	264	227	1593	3111	793	567	418
80	346	474	854	3720	1237	238	227	156	142	162	225	185	1383	2770	683	493	346
81	294	402	728	3260	1022	194	185	114	111	123	173	149	1169	2388	573	424	294
82	246	337	601	2783	823	156	139	83	77	90	120	116	973	1963	469	360	246
83	192	269	481	2292	636	125	96	46	50	59	73	87	772	1558	371	293	192
84	146	211	381	1808	448	87	61	21	20	29	48	56	584	1188	296	226	146
85	105	144	289	1397	285	71	32	14	14	14	24	40	407	814	225	168	105
86	65	97	204	1011	180	36	15	17	13	13	13	21	254	454	150	116	65
87	45	66	130	633	74	23	16	13	14	14	16	11	164	268	95	72	45
88	40	48	68	371	15	14	11	16	13	10	8	19	38	152	50	50	40
89	30	37	48	260	16	8	10	14	16	14	15	16	20	46	36	36	30
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	0
92	0	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	0
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95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	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	0
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100	0	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	0
102	0	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	0
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106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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113	0	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	0
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119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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122	0	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	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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153	0	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	0
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160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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178	0	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	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Report No.:
BLC2207025E-A-PL

BUG Rating

Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1787.1	11.6	11.6
FM (30-60)	4905.0	31.8	31.8
FH (60-80)	2650.1	17.2	17.2
FVH (80-90)	282.9	1.8	1.8
BL (0-30)	1510.3	9.8	9.8
BM (30-60)	3058.8	19.9	19.9
BH (60-80)	1148.6	7.5	7.5
BVH (80-90)	58.2	0.4	0.4
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	15401.0	100.0	100.0
BUG Rating	B3-U0-G3		

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-100WBT3A4-BR10SP5		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC220702	120.0	60	0.853	101.56	0.992	11.76
5E-A2	277.0	60	0.391	102.58	0.946	12.52
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

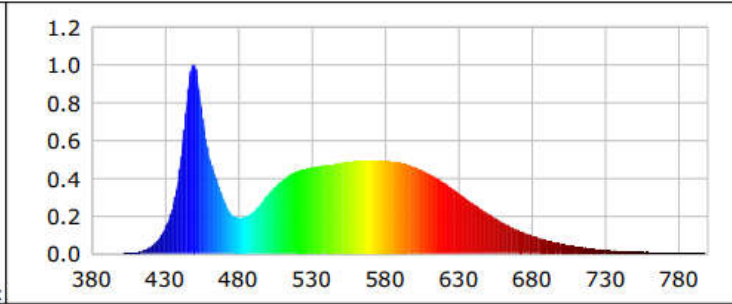
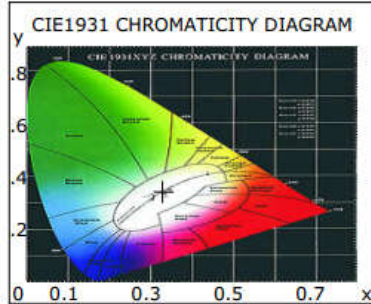
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	81	R9	7
Frequency (Hz)	60	R2	86	R10	67
CCT (K)	5635	R3	89	R11	82
Duv	0.0019	R4	83	R12	58
Chromaticity (x, y)	x=0.3294 y=0.3421	R5	82	R13	82
Chromaticity (u', v')	u(u')=0.2044 -v'=0.4776	R6	81	R14	94
Color Rendering Index (CRI)	82	R7	87	R15	76
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)	16503.5	16310.3	>=10000(-10%)
Luminous Efficacy (lm/W)	162.50	163.56	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	160.60		

Spectral Power Distribution & Chromaticity Diagram



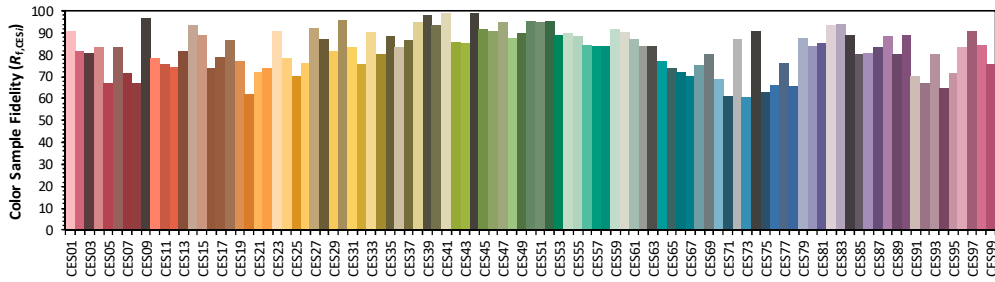
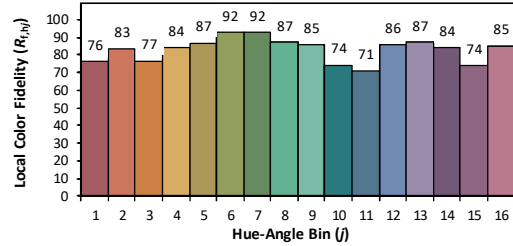
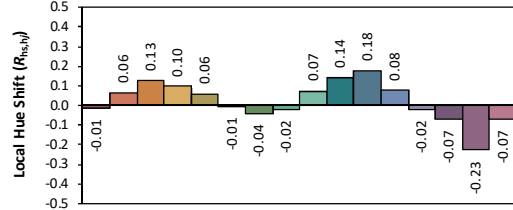
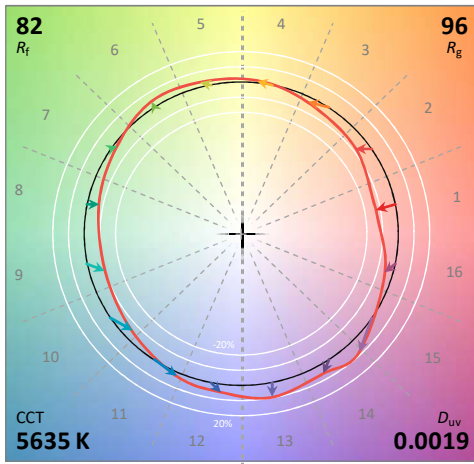
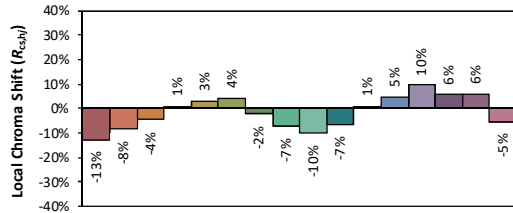
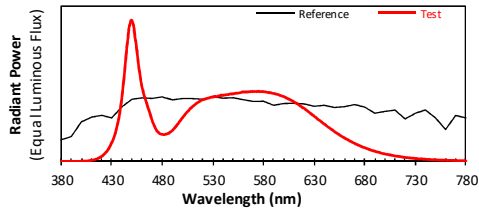
WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0443	535	0.4483	206.9709	690	0.1273	58.7572
385	0.0006	0.2647	540	0.4564	210.7130	695	0.1115	51.4856
390	0.0004	0.1813	545	0.4631	213.8293	700	0.0970	44.7867
395	0.0006	0.2541	550	0.4703	217.1545	705	0.0834	38.4849
400	0.0013	0.6125	555	0.4740	218.8256	710	0.0720	33.2584
405	0.0026	1.2173	560	0.4786	220.9739	715	0.0626	28.9002
410	0.0064	2.9701	565	0.4848	223.8403	720	0.0523	24.1432
415	0.0159	7.3248	570	0.4916	226.9535	725	0.0449	20.7330
420	0.0346	15.9557	575	0.4943	228.2055	730	0.0375	17.3178
425	0.0694	32.0538	580	0.4958	228.8995	735	0.0330	15.2349
430	0.1320	60.9262	585	0.4976	229.7284	740	0.0281	12.9690
435	0.2409	111.2120	590	0.4947	228.3855	745	0.0241	11.1198
440	0.4507	208.0978	595	0.4874	225.0066	750	0.0198	9.1525
445	0.8138	375.7241	600	0.4824	222.7016	755	0.0169	7.7863
450	1.0000	461.6876	605	0.4728	218.3057	760	0.0151	6.9750
455	0.7760	358.2885	610	0.4599	212.3472	765	0.0129	5.9383
460	0.5258	242.7721	615	0.4431	204.5520	770	0.0107	4.9566
465	0.4014	185.3114	620	0.4225	195.0733	775	0.0088	4.0704
470	0.2896	133.6924	625	0.3998	184.5969	780	0.0079	3.6285
475	0.2135	98.5839	630	0.3767	173.8948	785	0.0068	3.1463
480	0.1911	88.2092	635	0.3495	161.3661	790	0.0055	2.5213
485	0.1957	90.3681	640	0.3210	148.1903	795	0.0044	2.0448
490	0.2197	101.4300	645	0.2933	135.4098	800	0.0027	1.2663
495	0.2623	121.0901	650	0.2657	122.6786			
500	0.3103	143.2507	655	0.2387	110.2227			
505	0.3527	162.8433	660	0.2122	97.9515			
510	0.3904	180.2434	665	0.1889	87.2176			
515	0.4175	192.7528	670	0.1664	76.8058			
520	0.4365	201.5304	675	0.1461	67.4419			
525	0.4483	206.9709	680	0.1273	58.7572			
530	0.4564	210.7130	685	0.1115	51.4856			

TM30

ANSI/IES TM-30-18 Color Rendition Report

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

Manufacturer: Beyond LED Technology
Model: BLT-S-G14B-100WBT3A4-BR10SP5



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

x 0.3294
 y 0.3421
 u' 0.2044
 v' 0.4776

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-A-PL

Calculated Efficacy Data for family models:

Model Number	Luminous Flux (lm)	Power (W)	Efficacy (lm/W)
BLT-S-G14B-100WBT3A4-BR10SP5	15401.1	101.15	152.26
BLT-S-G14B-100WBT3A4-BR10SP5	15895.9	101.61	156.44
BLT-S-G14B-100WBT3A4-BR10SP5	16147.3	100.55	160.59
BLT-S-G14B-100WBT3A4-BR10SP5	16391.7	101.61	161.32
BLT-S-G14B-100WBT3A4-BR10SP5	16587.7	102.52	161.8
BLT-S-G14B-100WBT3A4-BR10SP5	16503.5	101.56	162.5

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 *****