



Report No.: BLC2103014E-K

## LM-79-08 Test Report

For

**ASmart LIGHT CO., LTD**

**(Brand Name: ASmart)**

8470 Allison Pointe Blvd, Suite 128 Indianapolis, IN 46250

**Outdoor Pole/Arm-Mounted Area and Roadway Luminaires**

**Architectural Flood and Spot Luminaires**

Model name(s): IK-SBSLG2-300W-304050K-HV (300W)

Representative (Tested) Model:

IK-SBSLG2-300W-304050K-HV (300W,30K) (Tested at 0% CCT Setting)  
IK-SBSLG2-300W-304050K-HV (300W,40K) (Tested at 50% CCT Setting)  
IK-SBSLG2-300W-304050K-HV (300W,50K) (Tested at 100% CCT Setting)

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

Test & Report By:

*Sophie Yang*

Engineer: Sophie Yang

Date: 2021-04-14

Review By:

*Jason Luo*

Manager: Jason Luo



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### 1.1 Product Information:

Organization Name	IKIO LED LIGHTING		
Brand Name	IKIO		
Model Number	IK-SBSLG2-300W-304050K-HV (300W)		
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	277-480Vac, 50/60 Hz		
Nominal Power	300W		
Rated Initial Lamp Lumen	--		
Declared CCT	3000K, 4000K, 5000K(Color tunable)		
LED Manufacturer	Bridgelux Inc.		
LED Model	BXEM-30C-12H-6C		
Sample Number	BLC2103014E-K1		
Luminaire Aperture (for downlights)	--	in. mm mm s	
Luminaire Length	--		
Luminaires Width	--		
Number of Units (modular products)	N/A		
Photo			
			



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## 1.2 Test Specifications:

Date of Receipt	2021-3-10
Date of Test	2021-3-22
Test item	<ol style="list-style-type: none"><li>1. Total Luminous Flux</li><li>2. Luminous Distribution Intensity</li><li>3. Luminous Efficacy</li><li>4. Correlated Color Temperature</li><li>5. Color Rendering Index</li><li>6. Chromaticity Coordinate</li><li>7. Electrical Parameters</li></ol>
Reference Standard	<ol style="list-style-type: none"><li>1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products</li><li>2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products</li><li>3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources</li><li>4. CIE 15-2004 Technical Report Colorimetry</li><li>5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source</li><li>6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems</li></ol>
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  $1^{\circ}$  vertical intervals and  $22.5^{\circ}$  horizontal intervals.

### 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.

### 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.



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**2.1 Electrical, Photometric and Chromaticity Measurements**

(Refer to Work Instruction BL-QP-033)

<b>Test date</b>	2021-3-22	<b>Test Ambient:</b>	25.2 °C
<b>Test Orientation</b>	As intended	<b>Stabilization Time (min)</b>	90
<b>Model Number</b>	IK-SBSLG2-300W-304050K-HV (300W,30K) (Tested at 0% CCT Setting)		

**Electrical Measurement:**

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301 4E-K1	277.0	60	1.120	307.27	0.990	5.82
	480.0	60	0.682	300.01	0.916	14.17
<b>DLC Pass Criteria</b>					$\geq 0.9(-3\%)$	$\leq 20(+5)$

**Chromaticity Measurement - Sphere-Spectroradiometer Method:**

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	277.0	R1	68	R9	-35
Frequency (Hz)	60	R2	82	R10	59
CCT (K)	3002	R3	94	R11	65
Duv	-0.0004	R4	69	R12	52
Chromaticity (x, y)	x=0.4363 y=0.4029	R5	68	R13	70
Chromaticity (u', v')	u(u')=0.2507 v'=0.5208	R6	76	R14	97
Color Rendering Index (CRI)	72	R7	76	R15	60
R9	-35	R8	43	--	--
Rf	74	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-16				

**Photometric Measurement – Goniophotometer Method:**

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	277.0	480.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	40547.2	38895.4	>=30000(-10%)
Luminous Efficacy (lm/W)	131.96	129.65	Premium: >= 120(-3%)
Most worst Luminous/Highest	126.58		
Zonal lumens in the 0-90 °zone (%)	100	--	Category 1: >=100(-1) Category 2: >=85(-3)
Zonal lumens in the 80-90 °zone (%)	1.6	--	<=10(+3)
Beam Angle ( °)	132.0	--	--
Center Beam Candle Power (cd)	8922	--	--

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

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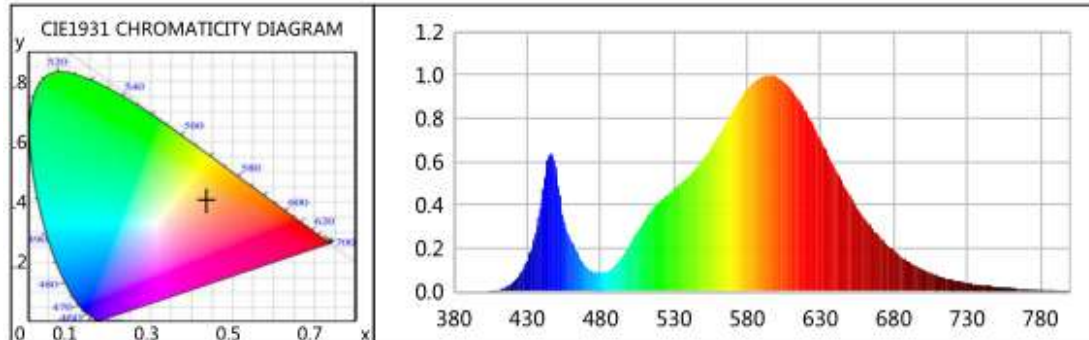
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## Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0007	0.5233	525	0.4441	357.2290	670	0.2533	203.7207
385	0.0005	0.4021	530	0.4725	380.0626	675	0.2179	175.2575
390	0.0003	0.2341	535	0.4996	401.8245	680	0.1884	151.5299
395	0.0002	0.1807	540	0.5323	428.1450	685	0.1619	130.2038
400	0.0010	0.8142	545	0.5646	454.1262	690	0.1388	111.6447
405	0.0026	2.0718	550	0.6069	488.1660	695	0.1186	95.4284
410	0.0071	5.7471	555	0.6549	526.7194	700	0.1007	81.0182
415	0.0183	14.7335	560	0.7103	571.3286	705	0.0862	69.3009
420	0.0392	31.5385	565	0.7687	618.3102	710	0.0729	58.6705
425	0.0772	62.1086	570	0.8283	666.2313	715	0.0633	50.9154
430	0.1409	113.3054	575	0.8848	711.6347	720	0.0530	42.6683
435	0.2443	196.5156	580	0.9336	750.8848	725	0.0458	36.8566
440	0.4285	344.6217	585	0.9664	777.2685	730	0.0389	31.2965
445	0.6273	504.5682	590	0.9898	796.1442	735	0.0330	26.5420
450	0.5403	434.5570	595	0.9981	802.7627	740	0.0286	22.9919
455	0.3255	261.8076	600	0.9954	800.5972	745	0.0249	20.0513
460	0.2343	188.4765	605	0.9700	780.1597	750	0.0206	16.6076
465	0.1688	135.7944	610	0.9348	751.8601	755	0.0175	14.0764
470	0.1128	90.7221	615	0.8872	713.6204	760	0.0152	12.2510
475	0.0913	73.4238	620	0.8299	667.4571	765	0.0124	9.9464
480	0.0864	69.5267	625	0.7659	616.0017	770	0.0111	8.9123
485	0.0933	75.0318	630	0.6982	561.5596	775	0.0088	7.0505
490	0.1194	96.0084	635	0.6318	508.1912	780	0.0077	6.2216
495	0.1631	131.1623	640	0.5656	454.9286	785	0.0054	4.3318
500	0.2165	174.1674	645	0.5017	403.5524	790	0.0059	4.7461
505	0.2719	218.6768	650	0.4432	356.4774	795	0.0047	3.7539
510	0.3265	262.6207	655	0.3867	310.9922	800	0.0043	3.4910
515	0.3724	299.4856	660	0.3370	271.0207			
520	0.4114	330.9087	665	0.2937	236.2532			

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Guangzhou, People's Republic of China engineer@etk-utest.com

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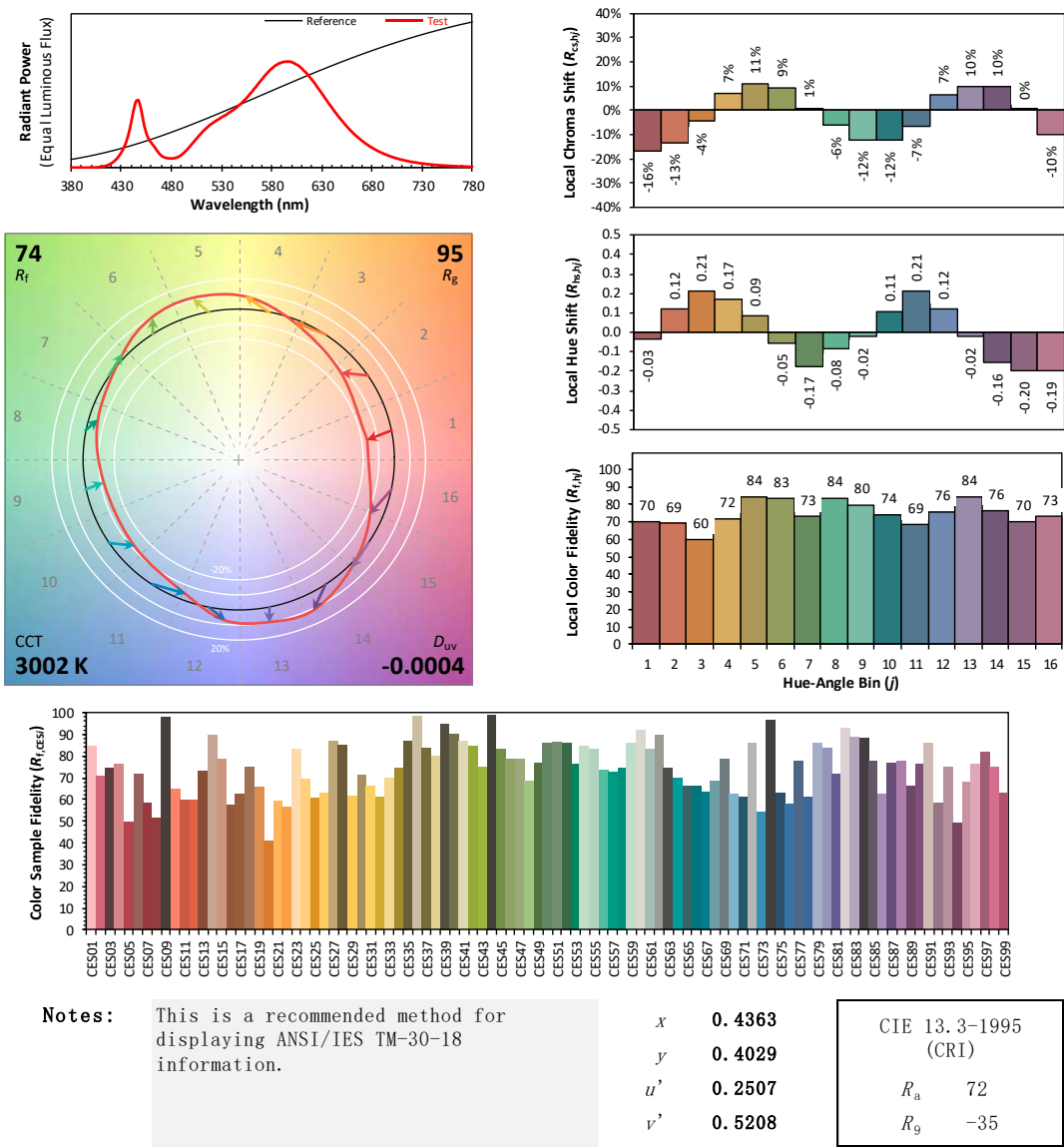


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TM30

ANSI/IES TM-30-18 Color Rendition Report

Source: BXEM-30C-12H-6C  
Date: 2021/3/22  
Manufacturer: IK10 LED LIGHTING  
Model: IK-SBSLG2-300W-304050K-HV (300W, 30K)  
(Tested at 0% CC Setting)



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	7,755.6	19.1%	19.1%
0-40	13,741.0	33.9%	33.9%
0-60	29,284.2	72.2%	72.2%
60-90	11,260.5	27.8%	27.8%
70-100	4,548.2	11.2%	11.2%
90-120	0	0%	0%
0-90	40,544.6	100%	100%
90-180	0	0%	0%
0-180	40,544.6	100%	100%

### Lumens Per Zone

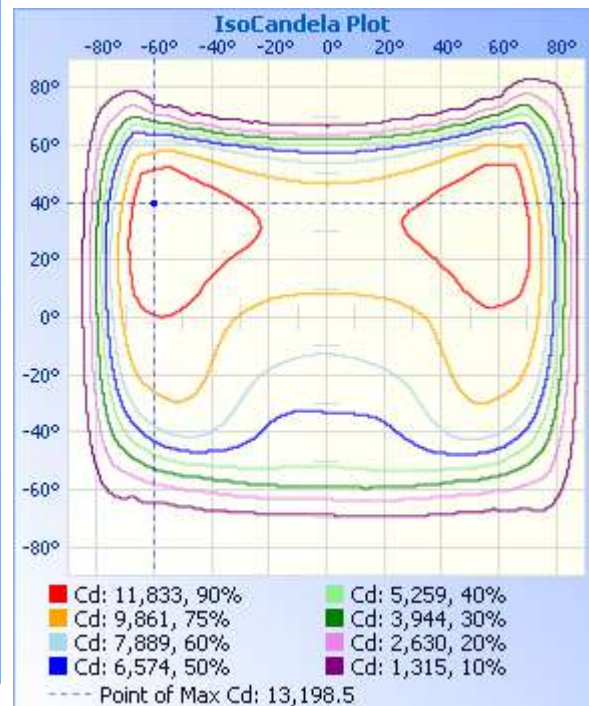
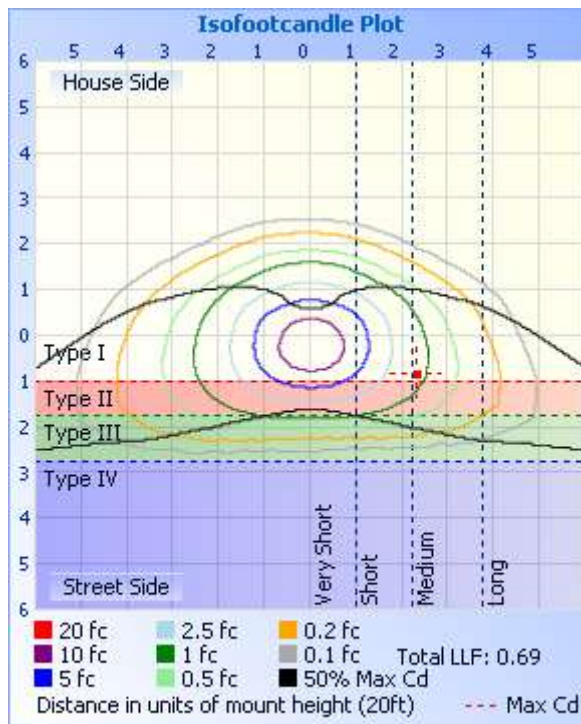
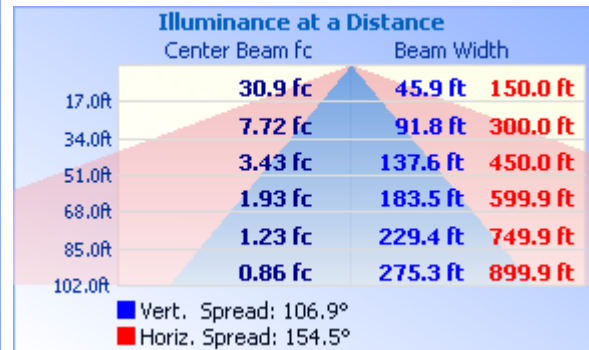
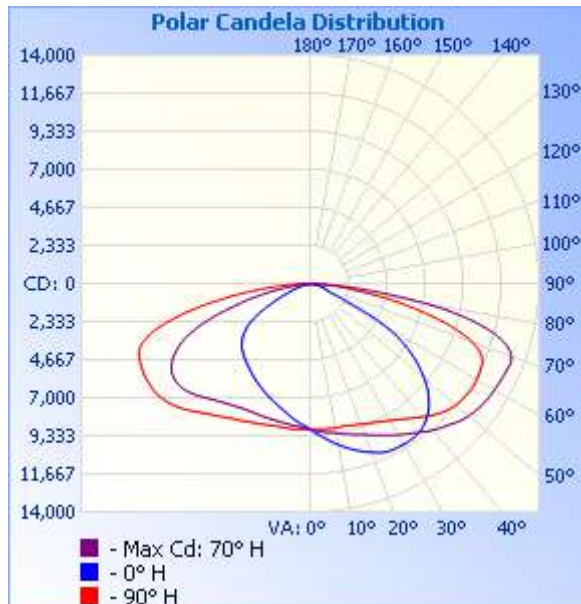
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	857.9	2.1%	90-100	0	0%
10-20	2,584.2	6.4%	100-110	0	0%
20-30	4,313.6	10.6%	110-120	0	0%
30-40	5,985.4	14.8%	120-130	0	0%
40-50	7,448.9	18.4%	130-140	0	0%
50-60	8,094.2	20.0%	140-150	0	0%
60-70	6,712.3	16.6%	150-160	0	0%
70-80	3,735.6	9.2%	160-170	0	0%
80-90	812.6	2.0%	170-180	0	0%





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## Photometric Data







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Candela Table - Type C

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360
0	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922	8922
1	9029	9026	9035	9011	9007	8994	8977	8962	8945	8928	8903	8890	8875	8862	8846	8833	8833	8827	8827	8822	8833	8840	8839	8853	8870	8885	8904	8925	8936	8954	8976	8984	9000	9013	9030	9022	9029
2	9174	9160	9172	9126	9096	9073	9034	9002	8965	8931	8883	8858	8831	8802	8777	8758	8752	8745	8742	8737	8751	8766	8770	8794	8825	8854	8890	8929	8958	8997	9031	9066	9100	9124	9126	9136	9174
3	9234	9224	9203	9206	9222	9155	9104	9044	8984	8935	8864	8828	8786	8747	8712	8686	8675	8666	8658	8659	8678	8701	8709	8744	8781	8825	8878	8936	8995	9060	9118	9108	9132	9174	9206	9219	9234
4	9357	9347	9340	9292	9222	9214	9179	9082	9005	8935	8853	8802	8746	8690	8654	8621	8603	8585	8585	8582	8610	8627	8651	8698	8742	8801	8867	8945	9017	9073	9118	9181	9240	9285	9317	9336	9357
5	9468	9467	9443	9391	9333	9250	9209	9122	9032	8949	8840	8777	8711	8647	8598	8557	8526	8508	8512	8513	8542	8566	8602	8660	8710	8777	8860	8967	9017	9073	9184	9265	9334	9385	9421	9445	9468
6	9582	9569	9551	9489	9419	9343	9244	9182	9057	8954	8822	8750	8672	8601	8552	8497	8457	8434	8439	8441	8470	8510	8553	8626	8683	8758	8852	8967	9017	9121	9258	9343	9426	9490	9535	9558	9582
7	9691	9670	9648	9592	9502	9415	9324	9204	9074	8942	8803	8721	8637	8556	8495	8431	8387	8355	8355	8361	8399	8452	8499	8583	8656	8745	8848	8967	9017	9173	9323	9425	9512	9587	9640	9677	9691
8	9805	9776	9748	9683	9591	9490	9379	9204	9095	8968	8796	8697	8606	8504	8438	8367	8314	8260	8268	8277	8327	8386	8451	8547	8628	8729	8844	8967	9064	9221	9388	9493	9600	9681	9744	9791	9805
9	9914	9881	9850	9775	9677	9561	9440	9235	9121	8968	8795	8680	8580	8464	8379	8297	8237	8170	8179	8193	8249	8322	8400	8504	8601	8709	8837	8967	9096	9267	9450	9577	9690	9776	9844	9895	9914
10	10029	9981	9950	9861	9767	9627	9496	9304	9163	8968	8796	8664	8557	8424	8317	8220	8144	8079	8087	8100	8171	8250	8342	8462	8576	8696	8829	8967	9121	9308	9512	9652	9784	9870	9937	9997	10029
11	10128	10082	10049	9951	9847	9696	9562	9362	9220	8968	8796	8645	8525	8378	8259	8143	8058	7992	8002	8012	8081	8172	8281	8421	8549	8682	8830	8967	9156	9354	9568	9724	9869	9964	10035	10101	10128
12	10233	10190	10149	10045	9927	9781	9632	9417	9220	8968	8790	8624	8494	8330	8197	8063	7979	7912	7924	7929	8007	8099	8219	8374	8526	8671	8834	8967	9190	9404	9631	9792	9955	10066	10131	10204	10233
13	10346	10287	10263	10150	10008	9861	9708	9465	9220	8968	8792	8604	8463	8280	8141	7997	7905	7838	7852	7851	7935	8032	8160	8330	8501	8661	8836	8967	9225	9455	9687	9872	10039	10160	10236	10316	10346
14	10454	10383	10355	10242	10096	9948	9778	9515	9233	8968	8800	8593	8435	8228	8079	7932	7839	7764	7781	7782	7869	7962	8102	8284	8474	8650	8841	8967	9259	9513	9753	9944	10123	10254	10336	10414	10454
15	10555	10480	10450	10332	10189	10031	9836	9566	9296	9011	8804	8589	8411	8189	8024	7871	7772	7701	7706	7715	7809	7905	8044	8236	8446	8642	8848	8993	9290	9570	9824	10024	10216	10355	10439	10509	10555
16	10642	10572	10545	10418	10280	10111	9904	9619	9342	9042	8814	8584	8389	8147	7976	7812	7708	7628	7639	7655	7750	7847	7994	8190	8416	8635	8858	9026	9323	9627	9892	10104	10307	10446	10534	10596	10642

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17	10743	10664	10634	10499	10383	10185	9966	9677	9389	9068	8827	8582	8364	8107	7926	7757	7639	7559	7572	7588	7683	7795	7950	8152	8390	8629	8868	9050	9364	9683	9965	10183	10402	10532	10624	10683	10743
18	10831	10749	10718	10583	10482	10262	10036	9731	9429	9092	8840	8581	8343	8072	7880	7702	7576	7493	7503	7521	7620	7743	7906	8113	8359	8627	8884	9078	9403	9740	10034	10271	10489	10616	10710	10768	10831
19	10913	10826	10794	10671	10572	10352	10106	9794	9474	9122	8852	8581	8327	8042	7833	7645	7511	7428	7438	7459	7562	7687	7861	8079	8340	8628	8897	9100	9442	9797	10111	10353	10580	10711	10791	10857	10913
20	10995	10908	10885	10761	10653	10433	10177	9858	9525	9162	8869	8581	8314	8010	7786	7590	7455	7353	7367	7394	7504	7629	7823	8049	8320	8627	8911	9127	9484	9852	10181	10432	10669	10796	10883	10939	10995
21	11077	10985	10961	10851	10739	10509	10257	9930	9578	9202	8886	8581	8300	7982	7747	7532	7390	7296	7307	7331	7442	7574	7783	8023	8306	8627	8928	9155	9533	9909	10248	10518	10751	10877	10967	11023	11077
22	11164	11059	11033	10931	10823	10593	10342	10011	9637	9239	8903	8584	8285	7955	7705	7477	7317	7231	7237	7268	7383	7518	7740	7996	8298	8627	8944	9193	9585	9975	10314	10599	10834	10961	11044	11096	11164
23	11243	11130	11103	11009	10899	10688	10422	10085	9697	9281	8935	8589	8273	7939	7662	7419	7248	7167	7173	7205	7317	7466	7691	7968	8283	8626	8965	9232	9635	10043	10388	10672	10910	11045	11115	11161	11243
24	11299	11184	11162	11087	10980	10766	10511	10160	9759	9328	8976	8601	8268	7912	7618	7353	7190	7101	7113	7139	7255	7411	7652	7936	8277	8633	8991	9273	9690	10118	10465	10745	10988	11112	11181	11212	11299
25	11330	11246	11223	11161	11061	10868	10599	10248	9829	9379	9019	8622	8261	7893	7570	7296	7127	7044	7050	7082	7195	7358	7601	7911	8267	8640	9020	9312	9743	10192	10539	10823	11066	11181	11244	11270	11330
26	11351	11294	11272	11235	11140	10958	10687	10348	9906	9439	9018	8638	8262	7863	7529	7237	7057	6978	6990	7030	7142	7296	7555	7889	8261	8651	9051	9359	9804	10268	10617	10903	11153	11245	11307	11312	11351
27	11364	11332	11313	11303	11219	11040	10792	10437	9978	9498	9053	8665	8270	7839	7485	7177	6996	6910	6933	6972	7076	7236	7506	7859	8251	8665	9088	9405	9873	10344	10700	10984	11237	11307	11349	11351	11364
28	11365	11367	11349	11353	11299	11126	10885	10523	10057	9560	9116	8697	8280	7820	7446	7114	6935	6842	6872	6910	7013	7180	7460	7828	8247	8685	9135	9452	9947	10423	10791	11058	11307	11364	11378	11385	11365
29	11376	11401	11388	11408	11379	11217	10978	10612	10142	9626	9178	8729	8296	7798	7404	7059	6870	6785	6813	6836	6948	7122	7411	7802	8248	8715	9212	9499	10019	10513	10882	11130	11374	11419	11410	11410	11376
30	11384	11422	11415	11446	11459	11312	11067	10701	10219	9694	9238	8772	8308	7789	7358	7005	6807	6723	6744	6774	6885	7062	7361	7779	8256	8742	9221	9549	10094	10603	10966	11206	11442	11463	11445	11430	11384
31	11394	11436	11443	11490	11524	11405	11160	10794	10306	9772	9306	8814	8327	7778	7319	6951	6743	6654	6676	6715	6819	7008	7316	7756	8263	8786	9254	9608	10174	10691	11050	11290	11500	11500	11460	11441	11394
32	11387	11446	11468	11536	11585	11499	11255	10883	10407	9853	9366	8865	8346	7770	7287	6896	6675	6592	6616	6655	6760	6943	7274	7733	8279	8824	9338	9671	10253	10781	11137	11367	11554	11534	11474	11444	11387
33	11372	11450	11485	11564	11639	11584	11350	10974	10499	9937	9437	8920	8371	7763	7248	6844	6614	6526	6556	6591	6691	6891	7232	7709	8296	8864	9401	9738	10339	10877	11222	11448	11608	11566	11481	11440	11372
34	11370	11427	11491	11596	11693	11663	11444	11065	10591	10025	9502	8981	8403	7764	7218	6797	6558	6463	6495	6528	6630	6835	7186	7690	8310	8910	9471	9814	10414	10950	11312	11522	11650	11597	11487	11418	11370
35	11340	11385	11495	11625	11738	11734	11530	11166	10700	10119	9581	9074	8441	7770	7182	6744	6497	6400	6425	6459	6567	6780	7150	7680	8329	8956	9544	9891	10514	11048	11399	11589	11683	11619	11485	11387	11340

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36	11302	11347	11484	11652	11774	11815	11616	11266	10814	10221	9670	9074	8479	7775	7148	6700	6441	6342	6370	6402	6507	6720	7111	7678	8359	9012	9612	9972	10603	11132	11477	11652	11713	11632	11474	11340	11302
37	11256	11304	11468	11661	11805	11875	11708	11378	10914	10318	9756	9159	8521	7779	7123	6659	6379	6290	6316	6345	6456	6659	7073	7674	8389	9079	9690	10051	10704	11233	11556	11712	11745	11636	11448	11284	11256
38	11180	11241	11436	11657	11834	11934	11795	11499	11016	10423	9853	9243	8570	7791	7100	6612	6326	6236	6258	6293	6398	6612	7035	7674	8427	9154	9773	10138	10806	11323	11632	11766	11772	11630	11418	11213	11180
39	11081	11159	11390	11650	11855	11986	11886	11611	11123	10539	9954	9340	8624	7801	7078	6566	6274	6178	6200	6233	6351	6570	7006	7679	8465	9205	9870	10227	10907	11432	11711	11822	11788	11613	11369	11130	11081
40	10994	11057	11335	11620	11875	12033	11964	11713	11235	10658	10063	9427	8684	7815	7057	6524	6224	6124	6142	6170	6303	6527	6976	7687	8515	9260	9960	10324	11015	11527	11791	11861	11805	11588	11300	11034	10994
41	10892	10944	11253	11586	11887	12076	12040	11811	11339	10783	10167	9514	8746	7825	7034	6480	6179	6068	6087	6110	6255	6482	6946	7690	8562	9348	10059	10424	11118	11620	11870	11904	11824	11555	11229	10927	10892
42	10758	10829	11163	11542	11901	12112	12131	11907	11469	10911	10280	9603	8804	7836	7010	6438	6129	6012	6033	6050	6204	6437	6918	7697	8614	9440	10166	10524	11219	11721	11939	11936	11832	11520	11135	10807	10758
43	10618	10701	11060	11484	11895	12148	12202	11994	11598	11018	10381	9692	8861	7841	6992	6398	6075	5955	5971	5999	6147	6401	6890	7702	8668	9523	10266	10651	11319	11823	12005	11964	11833	11463	11035	10661	10618
44	10469	10560	10949	11416	11892	12182	12273	12076	11721	11133	10481	9787	8911	7847	6965	6360	6027	5897	5908	5948	6100	6361	6860	7706	8719	9612	10377	10767	11429	11913	12079	11998	11821	11403	10908	10510	10469
45	10283	10390	10808	11320	11877	12202	12350	12178	11847	11228	10582	9872	8958	7848	6939	6325	5978	5836	5847	5894	6054	6319	6838	7708	8765	9717	10488	10880	11556	12003	12140	12030	11806	11316	10781	10347	10283
46	10093	10207	10665	11228	11844	12232	12418	12297	11947	11321	10666	9947	9003	7838	6906	6287	5929	5772	5786	5835	6006	6270	6802	7710	8816	9798	10590	10976	11674	12100	12204	12056	11780	11228	10628	10184	10093
47	9887	10025	10524	11116	11808	12250	12469	12408	12046	11408	10746	10010	9041	7821	6862	6239	5869	5701	5713	5765	5953	6231	6768	7708	8860	9876	10690	11078	11785	12167	12256	12072	11746	11120	10474	9985	9887
48	9662	9824	10355	10998	11743	12271	12515	12493	12122	11479	10815	10076	9064	7803	6819	6188	5811	5627	5635	5688	5883	6184	6725	7693	8890	9950	10784	11163	11886	12254	12309	12090	11705	10989	10304	9793	9662
49	9406	9618	10174	10867	11685	12281	12574	12565	12200	11547	10877	10135	9070	7769	6760	6128	5741	5555	5535	5600	5813	6126	6683	7667	8912	10016	10873	11255	11985	12352	12375	12109	11648	10853	10120	9551	9406
50	9172	9355	9972	10721	11606	12289	12620	12626	12277	11602	10940	10174	9066	7719	6693	6054	5664	5458	5435	5518	5736	6058	6620	7631	8917	10070	10940	11324	12077	12426	12422	12109	11576	10705	9911	9316	9172
51	8874	9118	9711	10539	11516	12290	12672	12694	12344	11652	10992	10206	9051	7658	6613	5966	5579	5353	5326	5421	5657	5986	6550	7587	8928	10108	11007	11395	12163	12503	12454	12112	11481	10551	9687	9086	8874
52	8585	8823	9443	10350	11415	12264	12719	12762	12400	11698	11024	10222	9014	7585	6518	5879	5467	5249	5209	5318	5558	5902	6481	7538	8923	10143	11056	11453	12230	12572	12507	12111	11386	10368	9404	8795	8585
53	8268	8508	9195	10144	11298	12241	12759	12804	12453	11718	11050	10226	8963	7488	6402	5744	5346	5123	5083	5198	5445	5800	6393	7456	8896	10167	11094	11504	12305	12627	12550	12109	11267	10185	9122	8457	8268
54	7973	8193	8891	9917	11142	12199	12788	12846	12507	11744	11051	10211	8894	7379	6272	5605	5205	4980	4921	5043	5317	5678	6289	7367	8854	10180	11112	11553	12372	12685	12595	12081	11149	9951	8879	8159	7973

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55	7608	7845	8569	9640	10988	12146	12804	12886	12552	11771	11054	10175	8799	7235	6101	5456	5056	4803	4759	4882	5184	5534	6147	7259	8799	10153	11118	11589	12432	12744	12638	12032	11011	9688	8564	7821	7608
56	7282	7489	8252	9345	10809	12075	12825	12925	12583	11791	11049	10114	8679	7075	5921	5281	4854	4617	4577	4712	4999	5385	6000	7136	8721	10116	11109	11600	12474	12791	12676	11974	10843	9382	8232	7484	7282
57	6906	7135	7881	9072	10603	11999	12844	12961	12604	11800	11018	10042	8549	6892	5723	5059	4651	4411	4372	4490	4806	5210	5835	6968	8613	10075	11087	11596	12496	12816	12703	11910	10652	9120	7912	7124	6906
58	6497	6775	7529	8736	10360	11900	12847	12978	12629	11804	10972	9940	8389	6660	5495	4832	4420	4167	4123	4254	4591	5007	5643	6791	8494	10003	11065	11592	12520	12839	12727	11837	10438	8784	7522	6756	6497
59	6099	6365	7184	8383	10121	11772	12844	12996	12659	11794	10915	9802	8199	6418	5215	4582	4169	3907	3829	3998	4344	4782	5414	6588	8348	9900	11010	11593	12540	12858	12750	11751	10183	8459	7197	6375	6099
60	5549	5829	6766	8034	9827	11632	12836	13020	12687	11788	10848	9649	7963	6130	4931	4302	3889	3587	3526	3710	4068	4531	5166	6346	8163	9779	10948	11595	12564	12873	12745	11634	9932	8123	6774	5885	5549
61	4952	5251	6230	7630	9528	11456	12807	13036	12699	11766	10760	9474	7668	5790	4636	4014	3561	3292	3223	3407	3752	4230	4907	6084	7921	9636	10867	11585	12584	12893	12732	11508	9624	7723	6343	5343	4952
62	4235	4553	5632	7201	9215	11279	12778	13058	12718	11731	10659	9239	7366	5459	4327	3684	3260	2987	2893	3068	3445	3941	4622	5771	7663	9464	10768	11561	12600	12907	12714	11348	9324	7315	5810	4675	4235
63	3416	3801	4853	6668	8845	11069	12722	13078	12741	11699	10529	9037	7018	5104	3971	3365	2951	2687	2595	2762	3127	3636	4286	5457	7369	9210	10664	11532	12599	12915	12678	11161	8974	6854	5081	3900	3416
64	2647	2962	4060	5950	8380	10829	12642	13093	12767	11657	10380	8750	6632	4687	3642	3048	2644	2367	2307	2468	2813	3311	3965	5113	7033	9029	10543	11504	12614	12927	12628	10941	8570	6282	4331	3108	2647
65	2033	2287	3239	5164	7916	10533	12549	13125	12809	11606	10217	8448	6226	4303	3308	2733	2356	2100	2045	2188	2516	2964	3630	4753	6634	8763	10412	11466	12637	12941	12555	10724	8143	5545	3538	2364	2033
66	1531	1684	2535	4365	7293	10196	12442	13146	12855	11522	10022	8094	5750	3905	2970	2432	2059	1853	1806	1933	2205	2644	3297	4363	6237	8468	10262	11423	12676	12945	12458	10427	7663	4793	2825	1809	1531
67	1247	1328	1859	3532	6544	9809	12316	13167	12873	11411	9794	7698	5308	3529	2648	2123	1815	1637	1597	1693	1952	2357	2969	3941	5829	8144	10075	11383	12700	12964	12339	10071	6990	3986	2125	1393	1247
68	1147	1163	1420	2707	5621	9308	12148	13198	12844	11207	9502	7198	4842	3159	2307	1866	1592	1351	1326	1422	1720	2081	2621	3561	5403	7729	9868	11308	12716	12988	12201	9665	6251	3185	1614	1197	1147
69	1093	1097	1205	2021	4713	8749	11947	13186	12673	10938	9164	6701	4326	2766	2018	1636	1317	1210	1188	1260	1429	1805	2320	3198	4914	7307	9627	11195	12725	13009	12046	9211	5365	2472	1318	1128	1093
70	1046	1045	1107	1545	3745	7936	11655	13105	12465	10603	8765	6167	3853	2409	1753	1359	1169	1081	1065	1128	1255	1577	2031	2844	4440	6824	9318	11012	12665	13012	11840	8628	4496	1907	1161	1070	1046
71	987	998	1050	1252	2858	7015	11287	12973	12164	10198	8306	5569	3413	2069	1528	1174	1052	980	946	1010	1128	1325	1771	2467	3974	6306	8926	10759	12459	12982	11589	7888	3629	1522	1094	1016	987
72	925	938	994	1100	2200	6032	10824	12752	11805	9649	7726	5025	2965	1751	1244	1043	945	874	838	903	1013	1168	1513	2121	3512	5683	8472	10437	12208	12892	11249	7031	2892	1256	1027	959	925
73	850	874	948	1011	1671	4864	10223	12468	11371	9089	7172	4520	2538	1471	1085	936	838	740	706	771	912	1030	1277	1813	3043	5149	7955	10054	11931	12754	10854	6113	2274	1116	975	892	850

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74	779	806	887	948	1271	3808	9298	12060	10861	8476	6586	4018	2074	1252	961	836	719	641	616	667	779	923	1112	1541	2628	4627	7407	9563	11578	12533	10322	5080	1702	1029	916	823	779
75	713	735	818	894	993	2831	8231	11589	10184	7750	5991	3486	1679	1024	850	714	642	563	531	585	696	809	977	1293	2227	4148	6781	8994	11126	12184	9519	4102	1322	958	843	754	713
76	657	672	748	834	857	2091	6944	10934	9519	7043	5387	2985	1359	878	722	637	549	462	446	494	610	715	861	1069	1829	3667	6182	8403	10547	11800	8594	3057	1045	893	777	689	657
77	598	611	677	784	775	1475	5747	10253	8817	6327	4752	2498	1115	770	626	540	447	402	393	415	501	640	739	919	1478	3153	5583	7754	9965	11292	7470	2306	895	833	700	624	598
78	531	541	594	707	704	1048	4575	9459	8035	5567	4207	2012	864	641	541	452	376	330	325	359	426	524	644	794	1175	2680	4980	7044	9262	10642	6340	1714	804	769	634	555	531
79	466	471	527	626	627	809	3593	8582	7281	4823	3708	1577	717	539	426	372	302	273	277	291	345	444	556	688	967	2211	4410	6355	8597	9949	5198	1227	717	692	563	487	466
80	411	414	443	524	534	652	2654	7531	6458	4049	3223	1186	606	437	346	294	245	209	205	237	286	363	439	562	786	1760	3841	5570	7877	9098	4037	880	636	603	482	429	411
81	353	360	386	439	446	540	1691	6341	5556	3388	2667	904	496	346	268	222	162	128	130	157	217	289	368	465	644	1328	3367	4806	7129	8131	3080	688	541	511	420	377	353
82	307	307	327	370	377	442	1064	5127	4644	2819	2134	655	396	276	212	156	95	73	74	100	146	223	292	379	533	1028	2885	4115	6286	7030	2146	564	457	426	359	322	307
83	263	265	279	304	311	375	720	4115	3844	2326	1617	489	319	227	148	102	55	30	32	49	91	157	225	306	437	778	2390	3402	5326	5932	1377	462	383	360	301	278	263
84	226	218	227	247	268	297	535	3075	3210	1875	1196	352	230	170	108	64	29	15	8	19	46	110	179	243	354	569	1840	2814	4510	4747	833	384	321	295	256	233	226
85	179	177	189	201	211	242	375	2231	2622	1404	866	246	169	131	79	45	26	8	9	14	30	72	135	190	272	423	1358	2303	3723	3609	582	312	265	245	216	191	179
86	140	139	147	149	158	178	267	1502	2022	912	550	164	118	84	55	32	15	11	11	17	26	53	104	145	194	304	983	1769	3090	2711	398	245	213	195	172	154	140
87	109	103	103	106	109	126	176	840	1151	420	244	104	68	45	38	19	12	8	10	8	19	42	77	109	147	213	675	1300	2398	1829	288	185	160	146	132	115	109
88	64	62	67	66	67	67	91	296	305	83	69	51	42	32	23	12	11	0	0	12	12	27	52	71	102	142	387	835	1696	1140	198	129	115	99	85	69	64
89	33	28	20	24	29	30	36	38	43	14	14	16	11	0	10	9	0	7	0	12	12	19	31	39	61	84	150	423	934	587	123	85	70	59	50	41	33
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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[illegible]

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Certificate#4810.01

[illegible]



Certificate#4810.01

[illegible]



Certificate#4810.01

[illegible]



Report No.: BLC2103014E-K

## BUG

### Lum. Classification System (LCS)

<u>LCS Zone</u>	<u>Lumens</u>	<u>%Lamp</u>	<u>%Lum</u>
FL (0-30)	4355.1	10.7	10.7
FM (30-60)	12765.1	31.5	31.5
FH (60-80)	6613.4	16.3	16.3
FVH (80-90)	593.5	1.5	1.5
BL (0-30)	3400.2	8.4	8.4
BM (30-60)	8767.0	21.6	21.6
BH (60-80)	3833.9	9.5	9.5
BVH (80-90)	219.0	0.5	0.5
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	40547.2	100.0	100.0
<b>BUG Rating</b>	<b>B5-U0-G4</b>		



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**2.2 Electrical, Photometric and Chromaticity Measurements***(Refer to Work Instruction BL-QP-033)*

<b>Test date</b>	2021-3-22	<b>Test Ambient:</b>	25.2 °C
<b>Test Orientation</b>	As intended	<b>Stabilization Time (min)</b>	90
<b>Model Number</b>	IK-SBSLG2-300W-304050K-HV(300W,40K) (Tested at 50% CCT Setting)		

**Electrical Measurement:**

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	277.0	60	1.080	296.36	0.991	5.39
4E-K1	480.0	60	0.657	288.57	0.915	14.29
<b>DLC Pass Criteria</b>					$\geq 0.9(-3\%)$	$\leq 20(+5)$

**Chromaticity Measurement - Sphere-Spectroradiometer Method:**

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	277.0	R1	70	R9	-31
Frequency (Hz)	60	R2	80	R10	55
CCT (K)	3741	R3	89	R11	69
Duv	-0.0012	R4	72	R12	78
Chromaticity (x, y)	x=0.3915 y=0.3807	R5	70	R13	72
Chromaticity (u', v')	u(u')=0.2308 v'=0.5049	R6	73	R14	94
Color Rendering Index (CRI)	73	R7	79	R15	63
R9	-31	R8	50	--	--
Rf	75	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-17				

**Photometric Measurement – Sphere-Spectroradiometer Method:**

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	277.0	480.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	43668.6	41940.8	>=30000(-10%)
Luminous Efficacy (lm/W)	147.35	145.34	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	141.52		

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

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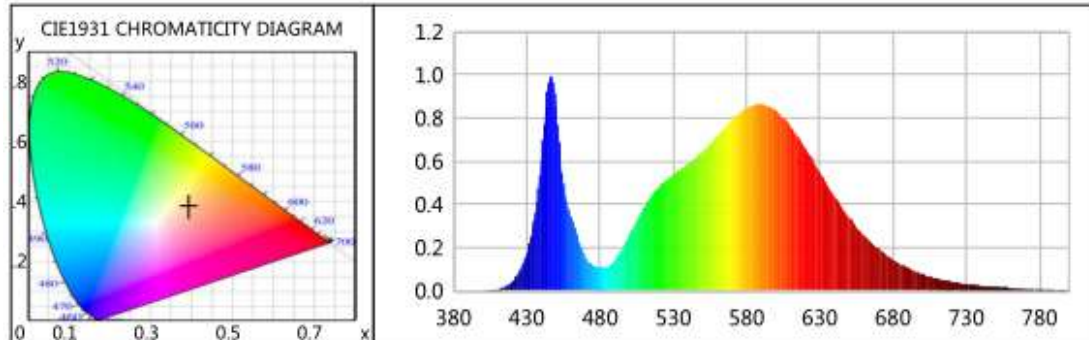
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Report No.: BLC2103014E-K

## 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	0.4798	525	0.5111	460.7430	670	0.1936	174.5438
385	0.0005	0.4365	530	0.5372	484.2611	675	0.1670	150.5511
390	0.0007	0.5893	535	0.5604	505.2132	680	0.1434	129.2661
395	0.0008	0.7466	540	0.5862	528.4342	685	0.1242	111.9881
400	0.0011	1.0277	545	0.6123	551.9678	690	0.1055	95.0946
405	0.0028	2.5512	550	0.6427	579.4169	695	0.0906	81.6488
410	0.0069	6.1778	555	0.6774	610.6681	700	0.0782	70.4675
415	0.0180	16.2247	560	0.7154	644.9952	705	0.0655	59.0477
420	0.0415	37.3833	565	0.7532	679.0013	710	0.0566	51.0708
425	0.0874	78.8119	570	0.7895	711.7546	715	0.0488	44.0351
430	0.1746	157.4256	575	0.8238	742.6688	720	0.0422	38.0537
435	0.3244	292.4554	580	0.8472	763.7327	725	0.0349	31.4718
440	0.6152	554.5926	585	0.8588	774.2268	730	0.0307	27.6749
445	0.9696	874.1121	590	0.8608	776.0089	735	0.0257	23.2049
450	0.8543	770.1896	595	0.8535	769.4580	740	0.0213	19.2417
455	0.4935	444.8873	600	0.8364	753.9966	745	0.0195	17.5395
460	0.3472	312.9685	605	0.8025	723.4600	750	0.0172	15.5074
465	0.2446	220.5546	610	0.7625	687.4450	755	0.0152	13.6637
470	0.1538	138.6229	615	0.7163	645.7733	760	0.0127	11.4751
475	0.1183	106.6157	620	0.6617	596.5672	765	0.0106	9.5755
480	0.1078	97.1879	625	0.6050	545.4283	770	0.0088	7.9066
485	0.1112	100.2485	630	0.5476	493.6537	775	0.0075	6.7806
490	0.1400	126.2330	635	0.4915	443.0791	780	0.0070	6.2969
495	0.1912	172.3639	640	0.4383	395.0943	785	0.0057	5.1410
500	0.2548	229.6924	645	0.3878	349.5762	790	0.0058	5.2031
505	0.3203	288.7891	650	0.3397	306.2591	795	0.0042	3.7643
510	0.3841	346.2613	655	0.2968	267.5604	800	0.0042	3.7487
515	0.4366	393.5658	660	0.2579	232.4861			
520	0.4784	431.3320	665	0.2241	201.9884			

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## TM30

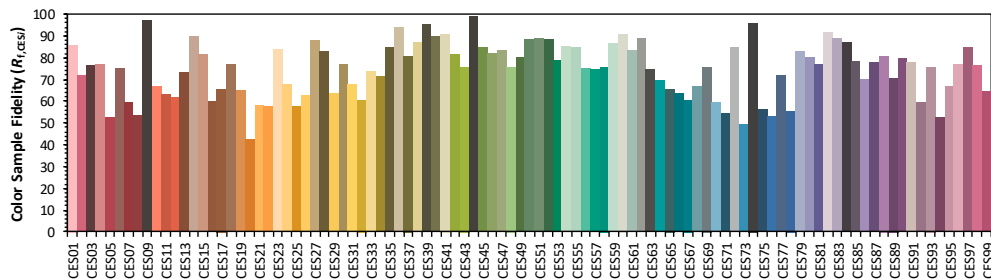
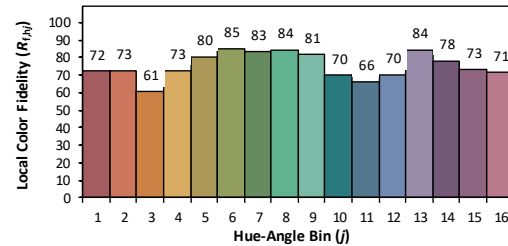
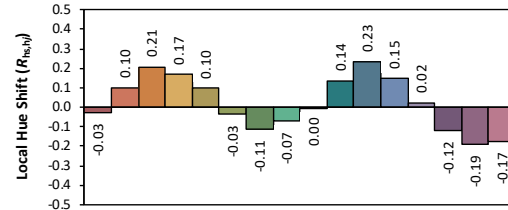
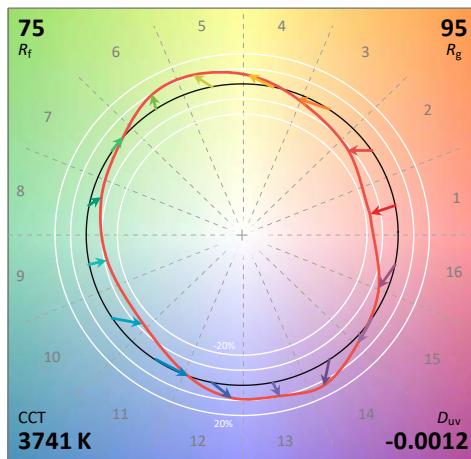
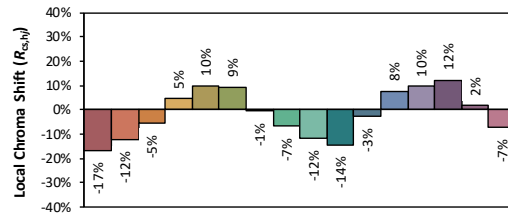
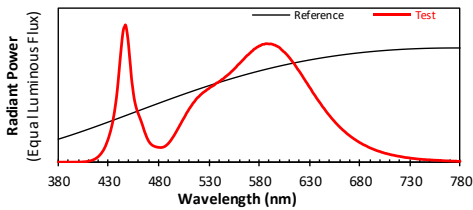
### ANSI/IES TM-30-18 Color Rendition Report

Source: BXEM-30C-12H-6C

Manufacturer: IK10 LED LIGHTING

Date: 2021/3/22

Model: IK-SBSLG2-300W-304050K-HV (300W, 40K)  
(Tested at 50% CC Setting)



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

$x$  0.3915  
 $y$  0.3807  
 $u'$  0.2308  
 $v'$  0.5049

CIE 13.3-1995  
(CRI)

$R_a$  73  
 $R_9$  -31

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

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

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Report Format Number BL-FM-SA-012



Report No.: BLC2103014E-K

**2.3 Electrical, Photometric and Chromaticity Measurements***(Refer to Work Instruction BL-QP-033)*

<b>Test date</b>	2021-3-22	<b>Test Ambient:</b>	25.2 °C
<b>Test Orientation</b>	As intended	<b>Stabilization Time (min)</b>	90
<b>Model Number</b>	IK-SBSLG2-300W-30/40/50K-HV (300W,50K) (Tested at 100% CCT Setting)		

**Electrical Measurement:**

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	277.0	60	1.120	307.50	0.991	6.19
4E-K1	480.0	60	0.665	292.26	0.915	14.37
<b>DLC Pass Criteria</b>					$\geq 0.9(-3\%)$	$\leq 20(+5)$

**Chromaticity Measurement - Sphere-Spectroradiometer Method:**

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	277.0	R1	68	R9	-40
Frequency (Hz)	60	R2	76	R10	45
CCT (K)	4863	R3	83	R11	69
Duv	0.0011	R4	72	R12	43
Chromaticity (x, y)	x=0.3493 y=0.3571	R5	69	R13	69
Chromaticity (u', v')	u(u')=0.2122 v'=0.4880	R6	68	R14	91
Color Rendering Index (CRI)	71	R7	80	R15	61
R9	-40	R8	53	--	--
Rf	72	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-18				

**Photometric Measurement – Sphere-Spectroradiometer Method:**

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	277.0	480.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	42914.7	39893.5	>=30000(-10%)
Luminous Efficacy (lm/W)	139.56	136.50	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	129.73		

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

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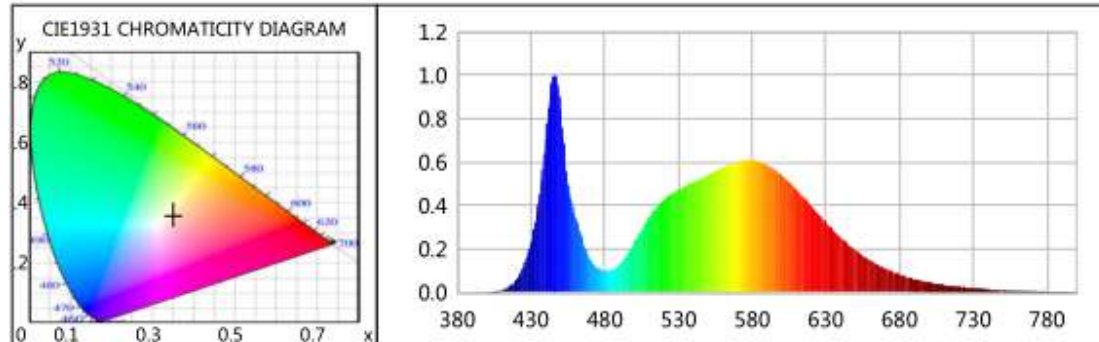
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Certificate#4810.01

Report No.: BLC2103014E-K

## Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0007	0.8259	525	0.4521	509.2977	670	0.1110	125.0666
385	0.0003	0.2929	530	0.4737	533.7017	675	0.0960	108.1449
390	0.0008	0.8883	535	0.4896	551.6300	680	0.0833	93.8853
395	0.0010	1.1087	540	0.5081	572.3862	685	0.0719	80.9619
400	0.0014	1.5599	545	0.5231	589.3232	690	0.0621	69.9813
405	0.0038	4.3240	550	0.5399	608.2593	695	0.0536	60.4265
410	0.0108	12.1208	555	0.5581	628.7355	700	0.0458	51.6280
415	0.0265	29.8983	560	0.5757	648.6462	705	0.0397	44.7815
420	0.0591	66.5704	565	0.5904	665.2119	710	0.0338	38.0683
425	0.1220	137.4937	570	0.6013	677.4142	715	0.0292	32.9445
430	0.2316	260.9495	575	0.6077	684.6355	720	0.0245	27.5947
435	0.4107	462.6865	580	0.6088	685.9055	725	0.0217	24.4948
440	0.7109	800.9358	585	0.6001	676.0969	730	0.0185	20.8686
445	0.9973	1123.5928	590	0.5871	661.4887	735	0.0166	18.6550
450	0.8438	950.6874	595	0.5672	639.0179	740	0.0136	15.3289
455	0.5024	566.0347	600	0.5411	609.6263	745	0.0122	13.7920
460	0.3478	391.8350	605	0.5088	573.2751	750	0.0098	11.0572
465	0.2380	268.1030	610	0.4741	534.0811	755	0.0094	10.5342
470	0.1504	169.4443	615	0.4371	492.4058	760	0.0072	8.1533
475	0.1133	127.6189	620	0.3979	448.2988	765	0.0068	7.6671
480	0.1001	112.8216	625	0.3591	404.6152	770	0.0062	6.9931
485	0.1025	115.4859	630	0.3222	362.9911	775	0.0043	4.8607
490	0.1269	142.9529	635	0.2869	323.2071	780	0.0033	3.7302
495	0.1721	193.8503	640	0.2542	286.3799	785	0.0034	3.8780
500	0.2282	257.0492	645	0.2225	250.7247	790	0.0029	3.2462
505	0.2857	321.9107	650	0.1949	219.5606	795	0.0027	3.0802
510	0.3427	386.0421	655	0.1699	191.4168	800	0.0028	3.1084
515	0.3878	436.9147	660	0.1476	166.2587			
520	0.4241	477.8004	665	0.1286	144.9149			

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## TM30

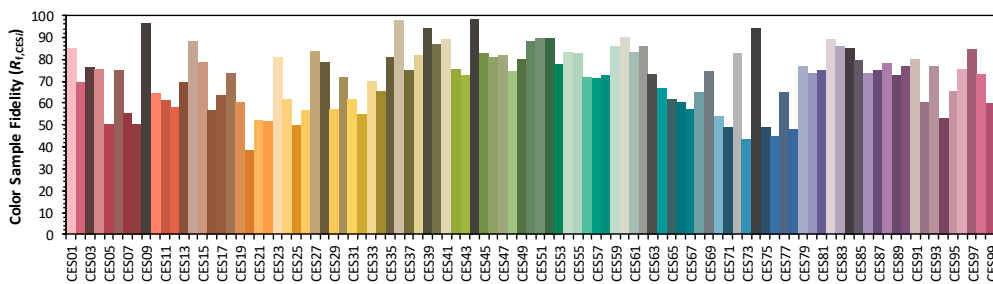
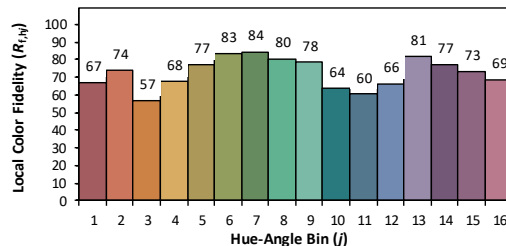
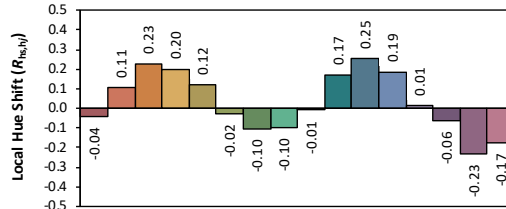
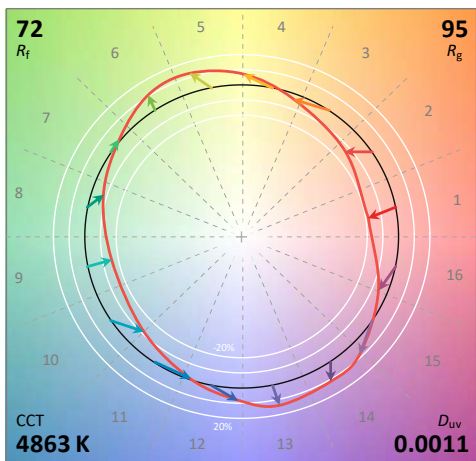
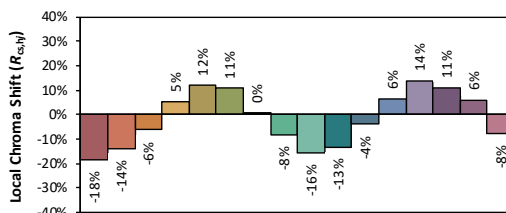
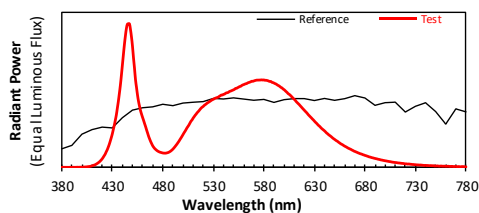
### ANSI/IES TM-30-18 Color Rendition Report

Source: BXEM-30C-12H-6C

Manufacturer: IKIO LED LIGHTING

Date: 2021/3/22

Model: IK-SBSLG2-300W-304050K-HV (300W, 50K)  
(Tested at 100% CC Setting)



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

$x$  0.3493  
 $y$  0.3571  
 $u'$  0.2122  
 $v'$  0.4880

CIE 13.3-1995  
(CRI)

$R_a$  71  
 $R_9$  -40

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

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01

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Report No.: BLC2103014E-K

### 3. Test Equipment

Equipment Name	Model No.	Serial No.	Next Calibration Date
Goniophotometric System	GPM-3000	DYHXF120001	2022-01-18
AC Power Source	CHP-500	DYBWD010159	2022-01-25
Total Luminous Flux Standard Lamp	24V/150W	DYJYR040040	2022-01-24
Digital Power Meter	WT500	DYDWQ20010	2022-01-25
Integral Sphere (2M)	2M	DYJCE120067	2022-01-18
Digital Power Meter	WT500	DYDWQ20006	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 \*\*\*\*\***