



Report No.: BLC2103014E-G

LM-79-08 Test Report

For

IKIO LED LIGHTING

(Brand Name: IKIO)

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-30/40/50K-MV (300W)

Representative (Tested) Model:

IK-SBSLG2-300W-30/40/50K-MV (300W,30K) (Tested at 0% CCT Setting)

IK-SBSLG2-300W-30/40/50K-MV (300W,40K) (Tested at 50% CCT Setting)

IK-SBSLG2-300W-30/40/50K-MV (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

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

Unit 401, No. 309 Xinxin Seven Road, Zengcheng District,

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

Report Format Number BL-FM-SA-012



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1.1 Product Information:

Organization Name	IKIO LED LIGHTING		
Brand Name	IKIO		
Model Number	IK-SBSLG2-300W-30/40/50K-MV (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	120-277Vac, 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-G1		
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">1. Total Luminous Flux2. Luminous Distribution Intensity3. Luminous Efficacy4. Correlated Color Temperature5. Color Rendering Index6. Chromaticity Coordinate7. Electrical Parameters
Reference Standard	<ol style="list-style-type: none">1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources4. CIE 15-2004 Technical Report Colorimetry5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source6. 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.

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)

Test date	2021-3-22	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	IK-SBSLG2-300W-30/40/50K-MV (300W,30K) (Tested at 0% CCT Setting)		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	120.0	60	2.552	305.93	0.999	2.11
4E-G1	277.0	60	1.111	298.64	0.970	7.42
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	68	R9	-35
Frequency (Hz)	60	R2	82	R10	59
CCT (K)	3006	R3	94	R11	64
Duv	-0.0005	R4	69	R12	52
Chromaticity (x, y)	x=0.4358 y=0.4025	R5	68	R13	70
Chromaticity (u', v')	u(u')=0.2505 v'=0.5206	R6	76	R14	97
Color Rendering Index (CRI)	72	R7	76	R15	60
R9	-35	R8	43	--	--
Rf	74	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-17				

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)	39646.7	38701.5	>=30000(-10%)
Luminous Efficacy (lm/W)	129.59	129.59	Premium: >= 120(-3%)
Most worst Luminous/Highest	126.50		
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 (°)	132.2	--	--
Center Beam Candle Power (cd)	8653	--	--

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

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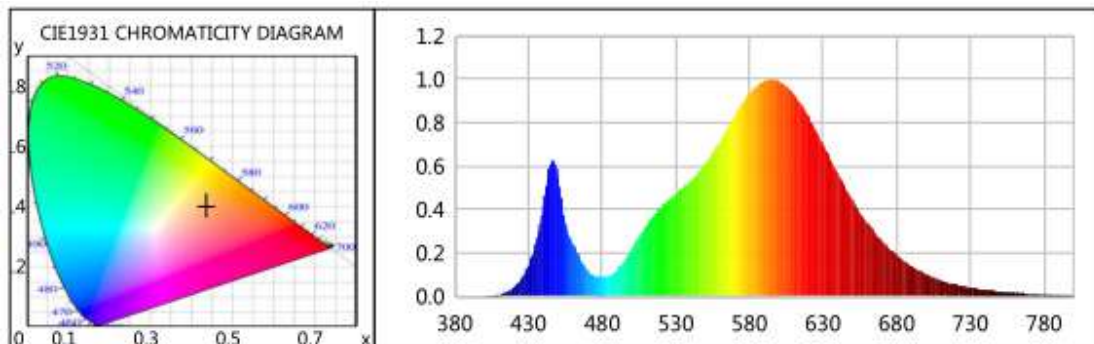
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Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0001	0.0557	525	0.4425	352.2495	670	0.2541	202.2377
385	0.0005	0.3717	530	0.4719	375.6333	675	0.2198	174.9446
390	0.0004	0.3516	535	0.4997	397.7929	680	0.1889	150.3874
395	0.0012	0.9441	540	0.5327	424.0529	685	0.1622	129.1500
400	0.0011	0.8988	545	0.5672	451.4982	690	0.1399	111.3306
405	0.0029	2.2902	550	0.6084	484.3245	695	0.1191	94.8224
410	0.0079	6.2574	555	0.6565	522.6125	700	0.1024	81.5265
415	0.0193	15.3704	560	0.7126	567.2260	705	0.0871	69.3082
420	0.0412	32.7870	565	0.7708	613.5670	710	0.0735	58.5096
425	0.0795	63.2766	570	0.8289	659.7932	715	0.0627	49.9273
430	0.1428	113.6672	575	0.8875	706.4469	720	0.0543	43.1877
435	0.2416	192.2778	580	0.9334	743.0248	725	0.0465	37.0314
440	0.4167	331.6831	585	0.9672	769.8844	730	0.0401	31.9032
445	0.6145	489.1140	590	0.9908	788.6899	735	0.0339	27.0069
450	0.5507	438.3685	595	0.9987	794.9489	740	0.0291	23.1639
455	0.3384	269.3542	600	0.9936	790.9111	745	0.0250	19.8868
460	0.2411	191.9066	605	0.9675	770.1628	750	0.0215	17.0895
465	0.1758	139.9372	610	0.9325	742.2903	755	0.0176	13.9890
470	0.1182	94.0673	615	0.8859	705.2193	760	0.0150	11.9546
475	0.0944	75.1479	620	0.8294	660.2470	765	0.0138	10.9555
480	0.0891	70.9370	625	0.7646	608.6351	770	0.0128	10.2189
485	0.0962	76.5370	630	0.6991	556.4764	775	0.0094	7.4795
490	0.1202	95.7101	635	0.6314	502.5692	780	0.0084	6.6645
495	0.1629	129.6788	640	0.5646	449.3929	785	0.0070	5.5474
500	0.2159	171.8325	645	0.5014	399.1009	790	0.0072	5.7095
505	0.2695	214.5235	650	0.4421	351.8913	795	0.0056	4.4210
510	0.3244	258.2207	655	0.3876	308.5096	800	0.0053	4.2175
515	0.3714	295.6723	660	0.3386	269.5008			
520	0.4103	326.5876	665	0.2924	232.7915			

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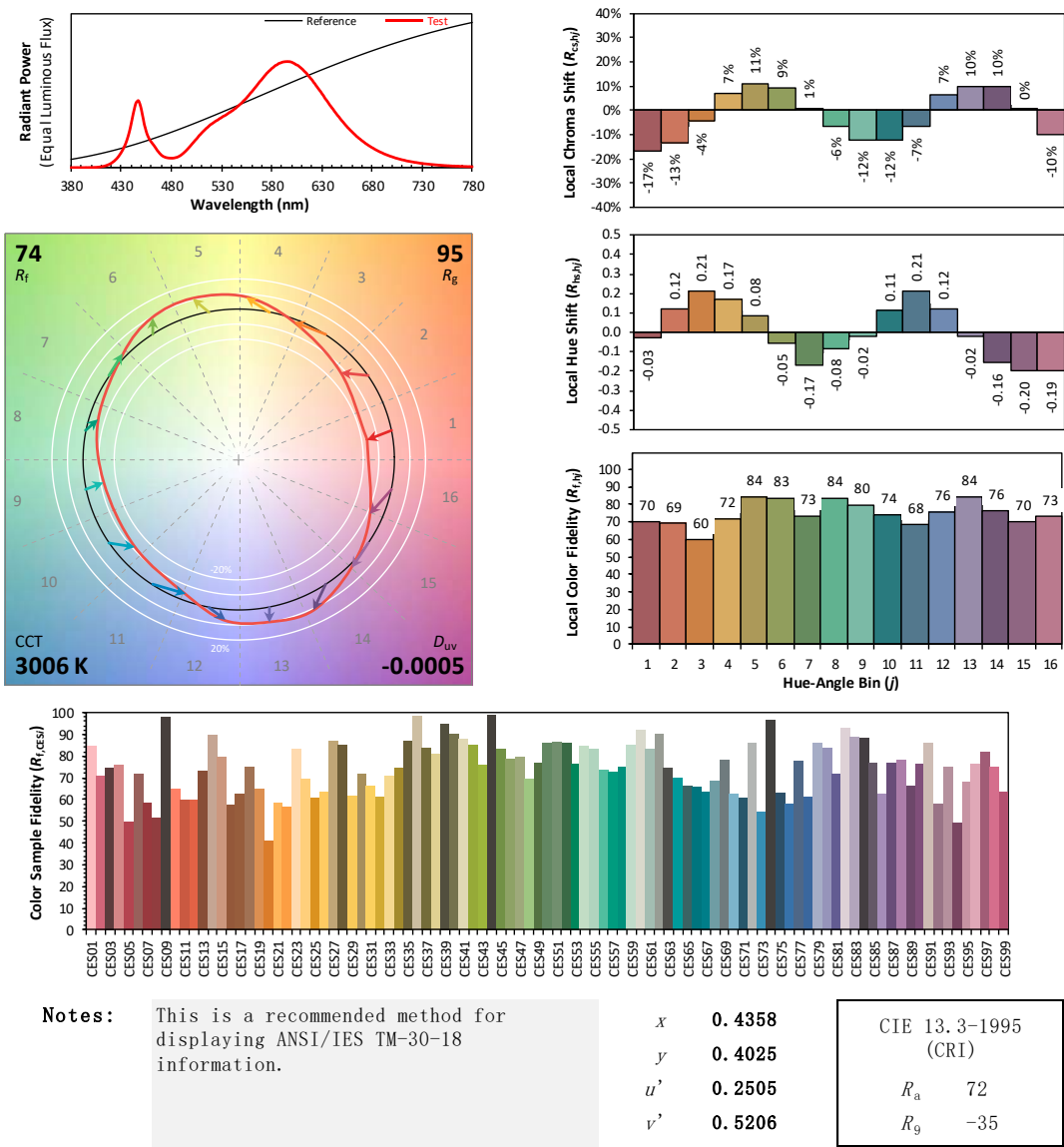


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TM30

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-MV (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	7,531.6	19%	19%
0-40	13,358.5	33.7%	33.7%
0-60	28,554.9	72%	72%
60-90	11,089.4	28%	28%
70-100	4,501.7	11.4%	11.4%
90-120	0	0%	0%
0-90	39,644.2	100%	100%
90-180	0	0%	0%
0-180	39,644.2	100%	100%

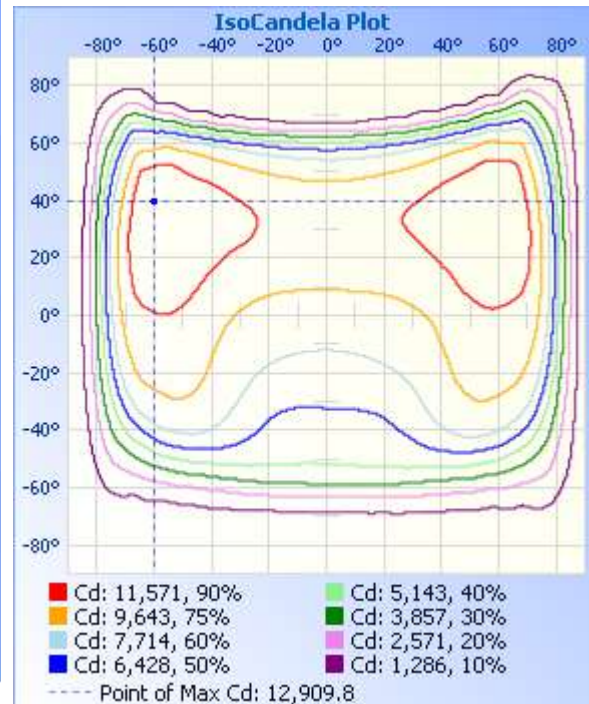
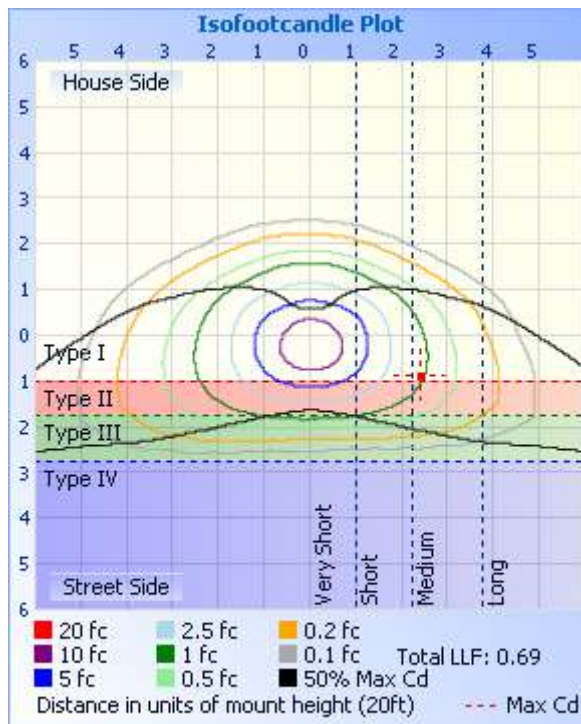
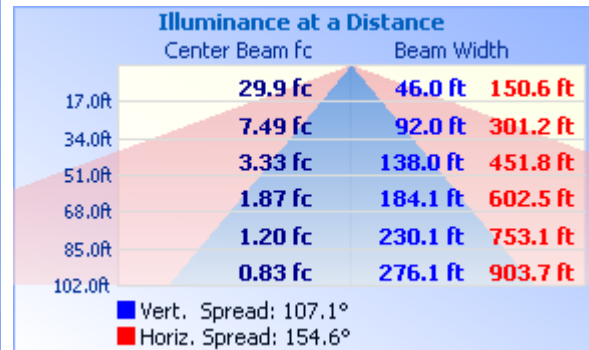
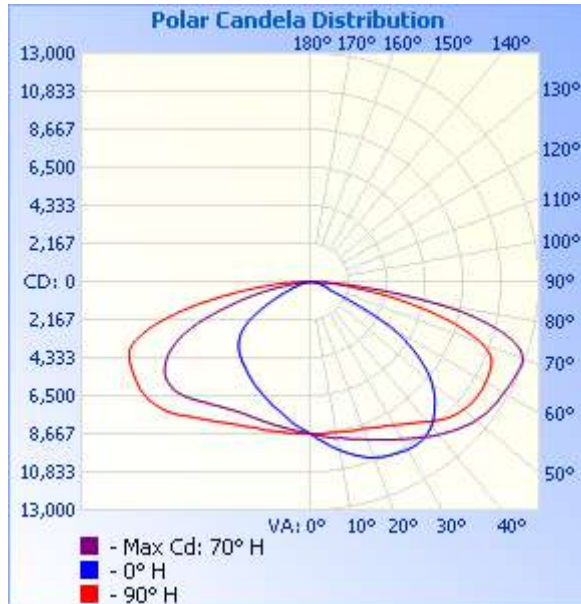
Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	832.6	2.1%	90-100	0	0%
10-20	2,508.9	6.3%	100-110	0	0%
20-30	4,190.2	10.6%	110-120	0	0%
30-40	5,826.8	14.7%	120-130	0	0%
40-50	7,273.8	18.3%	130-140	0	0%
50-60	7,922.6	20.0%	140-150	0	0%
60-70	6,587.6	16.6%	150-160	0	0%
70-80	3,686.9	9.3%	160-170	0	0%
80-90	814.8	2.1%	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	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653	8653
1	8755	8751	8759	8738	8729	8724	8716	8690	8675	8658	8638	8621	8607	8598	8587	8573	8573	8570	8554	8563	8565	8576	8578	8594	8601	8623	8631	8648	8669	8682	8702	8719	8726	8735	8757	8752	8755
2	8864	8862	8863	8830	8814	8795	8772	8722	8695	8658	8623	8589	8560	8545	8524	8502	8495	8489	8473	8490	8491	8505	8518	8541	8555	8593	8621	8651	8687	8716	8756	8778	8811	8829	8860	8865	8864
3	8998	8998	8980	8936	8902	8866	8828	8760	8716	8661	8607	8561	8522	8495	8457	8434	8428	8407	8399	8419	8425	8439	8460	8489	8519	8567	8611	8658	8712	8752	8815	8860	8917	8952	8977	8977	8998
4	9061	9044	9022	9035	9006	8939	8888	8799	8737	8667	8590	8540	8487	8444	8404	8374	8361	8335	8327	8348	8360	8370	8411	8444	8480	8544	8600	8665	8736	8793	8882	8968	8980	8968	9027	9063	9061
5	9182	9163	9146	9084	9043	9032	8951	8839	8762	8673	8579	8517	8453	8403	8352	8314	8298	8266	8256	8277	8289	8316	8362	8404	8447	8527	8592	8671	8755	8832	8974	8968	9060	9107	9140	9175	9182
6	9297	9279	9249	9186	9141	9032	9018	8884	8777	8674	8563	8493	8416	8363	8305	8260	8221	8199	8183	8207	8226	8262	8316	8364	8421	8507	8587	8681	8779	8890	8974	9063	9155	9206	9255	9283	9297
7	9410	9374	9359	9279	9228	9125	9018	8926	8793	8672	8546	8467	8384	8320	8256	8193	8154	8120	8094	8127	8155	8205	8262	8330	8396	8487	8585	8688	8807	8935	9030	9149	9242	9302	9361	9389	9410
8	9523	9474	9459	9376	9313	9202	9084	8972	8811	8678	8539	8446	8349	8273	8196	8126	8081	8029	8006	8046	8081	8137	8214	8296	8370	8472	8580	8695	8839	8935	9101	9228	9327	9397	9468	9492	9523
9	9629	9574	9554	9471	9394	9273	9141	9024	8834	8691	8541	8430	8322	8228	8138	8052	8003	7941	7914	7959	8000	8074	8158	8258	8343	8457	8572	8698	8870	8967	9164	9303	9411	9492	9570	9595	9629
10	9739	9677	9649	9567	9473	9342	9198	9025	8873	8709	8544	8416	8295	8186	8078	7974	7917	7856	7822	7871	7911	8003	8097	8220	8315	8437	8566	8701	8902	9027	9220	9378	9506	9583	9666	9701	9739
11	9842	9780	9747	9653	9557	9407	9259	9040	8909	8723	8545	8398	8268	8145	8019	7902	7825	7767	7738	7784	7835	7930	8038	8177	8288	8428	8565	8709	8902	9074	9276	9450	9591	9678	9758	9806	9842
12	9949	9885	9841	9742	9634	9477	9324	9113	8942	8734	8538	8376	8238	8098	7962	7835	7752	7684	7664	7709	7755	7860	7978	8125	8266	8417	8567	8722	8902	9127	9340	9516	9679	9785	9852	9906	9949
13	10048	9978	9946	9836	9713	9556	9395	9171	8974	8748	8541	8357	8206	8047	7902	7766	7686	7612	7590	7633	7688	7798	7918	8083	8240	8406	8570	8743	8902	9181	9397	9588	9759	9878	9953	10006	10048
14	10145	10072	10047	9927	9802	9639	9460	9222	9038	8772	8545	8345	8176	7992	7839	7701	7621	7543	7526	7568	7629	7739	7867	8038	8214	8397	8576	8762	8959	9235	9466	9663	9838	9973	10048	10103	10145
15	10241	10171	10144	10011	9892	9724	9526	9279	9038	8797	8553	8337	8154	7955	7788	7643	7555	7480	7459	7503	7570	7689	7821	7992	8188	8387	8580	8781	9002	9291	9540	9747	9921	10071	10149	10203	10241
16	10326	10264	10240	10103	9987	9807	9591	9332	9038	8826	8564	8333	8133	7912	7738	7582	7496	7413	7398	7438	7511	7630	7771	7952	8159	8379	8590	8811	9044	9342	9608	9833	10001	10158	10245	10295	10326

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17	10429	10348	10325	10184	10085	9885	9658	9382	9072	8859	8571	8331	8109	7878	7687	7523	7428	7352	7328	7374	7443	7581	7726	7915	8130	8374	8603	8845	9087	9393	9674	9915	10092	10250	10327	10385	10429
18	10519	10447	10409	10265	10170	9969	9728	9440	9126	8859	8582	8328	8087	7841	7640	7467	7367	7289	7266	7304	7393	7526	7682	7881	8107	8373	8615	8858	9125	9447	9745	9995	10184	10323	10416	10467	10519
19	10598	10530	10484	10346	10255	10057	9795	9497	9171	8858	8593	8330	8069	7810	7600	7412	7307	7222	7198	7241	7341	7479	7639	7845	8084	8372	8628	8858	9164	9507	9812	10071	10272	10408	10500	10549	10598
20	10655	10617	10558	10431	10338	10144	9862	9558	9224	8897	8608	8327	8055	7778	7556	7361	7246	7157	7133	7188	7285	7417	7596	7815	8069	8369	8637	8858	9210	9565	9888	10146	10360	10477	10594	10633	10655
21	10710	10707	10642	10523	10420	10221	9939	9625	9274	8945	8626	8326	8042	7754	7517	7304	7186	7092	7070	7128	7226	7357	7554	7789	8057	8371	8654	8882	9257	9624	9953	10224	10443	10548	10681	10718	10710
22	10764	10782	10721	10618	10503	10290	10008	9693	9333	8990	8650	8327	8028	7730	7477	7252	7129	7028	7010	7073	7166	7303	7521	7762	8046	8374	8674	8936	9306	9688	10019	10312	10535	10625	10756	10799	10764
23	10807	10858	10789	10699	10593	10364	10084	9769	9392	9034	8676	8336	8020	7708	7438	7197	7060	6973	6951	7009	7104	7250	7479	7735	8034	8376	8693	8981	9358	9759	10091	10383	10618	10711	10825	10868	10807
24	10850	10914	10859	10771	10677	10445	10173	9845	9456	9080	8706	8349	8012	7682	7393	7136	6995	6912	6891	6948	7043	7194	7433	7705	8027	8382	8713	9019	9415	9825	10177	10453	10699	10791	10901	10931	10850
25	10889	10963	10917	10847	10758	10540	10264	9923	9525	9133	8743	8361	8009	7658	7355	7082	6936	6852	6831	6892	6986	7139	7388	7684	8019	8389	8742	9056	9478	9897	10263	10529	10771	10860	10971	10984	10889
26	10917	11001	10961	10922	10837	10636	10353	10008	9592	9186	8781	8380	8010	7628	7311	7024	6872	6787	6774	6841	6923	7085	7342	7658	8008	8399	8776	9094	9538	9973	10347	10607	10848	10931	11027	11032	10917
27	10949	11044	11007	10996	10915	10734	10451	10098	9665	9236	8835	8402	8013	7606	7270	6968	6800	6720	6715	6788	6865	7031	7295	7628	8003	8412	8814	9137	9606	10056	10428	10692	10922	10998	11064	11065	10949
28	10972	11077	11040	11059	10997	10829	10542	10183	9742	9294	8902	8434	8025	7587	7225	6915	6741	6663	6667	6724	6806	6975	7250	7599	8002	8434	8857	9190	9682	10140	10515	10773	10992	11063	11098	11094	10972
29	11010	11097	11069	11107	11077	10923	10634	10266	9821	9358	8902	8474	8035	7570	7183	6854	6678	6600	6614	6649	6745	6921	7201	7573	8004	8464	8909	9242	9760	10235	10609	10848	11061	11116	11125	11120	11010
30	11045	11116	11115	11154	11146	11001	10733	10352	9901	9434	8972	8511	8050	7559	7139	6801	6621	6535	6554	6589	6684	6868	7153	7554	8010	8499	8981	9301	9835	10328	10696	10925	11138	11158	11158	11141	11045
31	11067	11141	11137	11195	11216	11077	10830	10445	9986	9515	9041	8557	8070	7546	7103	6745	6563	6469	6486	6529	6621	6805	7113	7527	8020	8538	9038	9370	9913	10421	10786	11004	11196	11197	11186	11142	11067
32	11073	11154	11161	11234	11283	11152	10916	10540	10077	9592	9113	8609	8094	7540	7073	6692	6501	6411	6427	6469	6555	6752	7070	7503	8033	8580	9038	9448	9993	10510	10871	11080	11257	11232	11206	11158	11073
33	11078	11156	11182	11275	11337	11234	11012	10634	10176	9672	9184	8662	8122	7541	7042	6650	6436	6351	6366	6406	6491	6702	7028	7483	8049	8623	9125	9523	10087	10602	10953	11161	11300	11268	11214	11158	11078
34	11064	11145	11203	11309	11388	11324	11099	10734	10272	9758	9255	8722	8157	7544	7011	6604	6383	6293	6306	6348	6433	6644	6989	7475	8067	8665	9196	9600	10176	10689	11035	11232	11339	11295	11219	11152	11064
35	11043	11112	11215	11334	11433	11414	11178	10835	10378	9849	9334	8783	8195	7546	6973	6546	6324	6235	6247	6274	6375	6590	6947	7463	8086	8714	9268	9675	10255	10786	11116	11297	11382	11321	11216	11133	11043

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36	11015	11072	11214	11354	11464	11489	11260	10937	10479	9950	9421	8859	8233	7552	6942	6507	6266	6175	6189	6222	6322	6530	6911	7461	8116	8775	9334	9752	10359	10887	11204	11364	11413	11342	11215	11101	11015
37	10959	11025	11197	11375	11496	11557	11336	11055	10581	10054	9506	8935	8278	7568	6913	6468	6214	6121	6138	6167	6261	6478	6871	7456	8149	8829	9407	9837	10461	10975	11285	11424	11454	11349	11196	11053	10959
38	10896	10958	11168	11384	11528	11624	11421	11164	10680	10161	9604	8953	8329	7579	6894	6426	6160	6069	6080	6120	6219	6435	6838	7461	8181	8894	9482	9922	10562	11076	11362	11486	11489	11351	11162	10993	10896
39	10817	10883	11122	11377	11552	11676	11511	11273	10784	10277	9707	9066	8383	7594	6873	6379	6109	6013	6027	6057	6171	6389	6810	7469	8229	8980	9583	10011	10686	11177	11434	11538	11515	11344	11112	10926	10817
40	10722	10807	11075	11369	11572	11727	11593	11366	10900	10395	9815	9156	8444	7606	6854	6337	6061	5960	5973	5997	6123	6347	6779	7478	8275	9025	9686	10105	10795	11285	11509	11590	11538	11322	11055	10837	10722
41	10610	10710	11010	11333	11595	11776	11679	11463	11004	10521	9931	9248	8499	7621	6833	6298	6016	5909	5914	5933	6073	6307	6752	7485	8323	9101	9790	10208	10897	11383	11585	11642	11560	11297	10987	10738	10610
42	10478	10599	10923	11286	11609	11814	11753	11564	11126	10653	10032	9339	8553	7635	6806	6261	5971	5849	5862	5881	6029	6270	6726	7492	8377	9192	9894	10318	11004	11491	11666	11679	11570	11267	10922	10619	10478
43	10335	10461	10827	11236	11611	11847	11833	11670	11249	10770	10135	9424	8612	7638	6785	6225	5925	5798	5808	5838	5977	6232	6699	7492	8430	9279	9997	10448	11117	11594	11748	11724	11570	11235	10824	10498	10335
44	10187	10328	10713	11176	11601	11869	11905	11769	11381	10880	10240	9520	8658	7644	6761	6189	5881	5748	5752	5787	5931	6195	6677	7493	8475	9364	10115	10561	11236	11682	11817	11766	11566	11174	10714	10351	10187
45	10012	10174	10588	11106	11585	11893	11975	11859	11491	10989	10343	9600	8699	7642	6734	6151	5830	5687	5687	5739	5885	6148	6649	7495	8520	9453	10220	10695	11369	11779	11890	11807	11551	11090	10588	10178	10012
46	9863	9992	10451	11014	11563	11921	12048	11951	11588	11075	10449	9679	8733	7637	6703	6116	5781	5620	5619	5684	5837	6107	6618	7498	8568	9540	10328	10800	11497	11858	11965	11839	11531	11007	10440	10012	9863
47	9683	9818	10294	10909	11537	11947	12104	12033	11680	11153	10534	9757	8771	7620	6670	6076	5728	5553	5552	5611	5781	6064	6576	7493	8604	9624	10428	10905	11616	11950	12021	11856	11505	10899	10306	9844	9683
48	9493	9616	10138	10787	11495	11971	12162	12140	11770	11226	10608	9824	8801	7593	6625	6026	5658	5484	5472	5535	5718	6023	6535	7478	8640	9699	10516	11002	11732	12043	12076	11878	11465	10786	10136	9637	9493
49	9263	9418	9965	10674	11429	11993	12218	12222	11852	11292	10661	9885	8818	7558	6566	5959	5589	5411	5379	5446	5651	5966	6487	7456	8670	9761	10609	11079	11818	12147	12126	11891	11417	10666	9971	9428	9263
50	9049	9200	9766	10531	11362	12009	12273	12288	11923	11354	10711	9920	8825	7512	6496	5889	5519	5307	5283	5358	5584	5897	6440	7425	8690	9816	10675	11150	11900	12233	12187	11903	11363	10532	9772	9197	9049
51	8809	8995	9547	10372	11288	12008	12331	12351	11987	11403	10754	9954	8811	7459	6423	5805	5427	5206	5179	5263	5499	5823	6376	7381	8688	9858	10729	11218	11974	12316	12244	11916	11292	10390	9556	8974	8809
52	8529	8706	9286	10188	11196	11996	12373	12413	12048	11435	10786	9971	8773	7382	6330	5705	5310	5094	5062	5156	5389	5736	6300	7318	8677	9892	10777	11283	12046	12386	12302	11920	11207	10218	9305	8681	8529
53	8227	8405	9020	10001	11080	11976	12410	12475	12103	11474	10814	9968	8715	7289	6220	5587	5186	4964	4931	5022	5283	5637	6205	7246	8654	9904	10808	11331	12113	12443	12348	11910	11103	10029	9049	8385	8227
54	7876	8112	8759	9771	10945	11941	12445	12522	12144	11505	10822	9952	8643	7186	6091	5439	5047	4818	4782	4881	5158	5524	6079	7165	8609	9903	10825	11367	12170	12495	12387	11893	10979	9806	8778	8069	7876

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55	7550	7793	8471	9532	10807	11891	12470	12555	12181	11520	10821	9919	8560	7035	5921	5281	4897	4639	4606	4721	5006	5370	5958	7061	8536	9894	10834	11392	12224	12531	12426	11862	10840	9588	8484	7768	7550
56	7195	7457	8163	9251	10649	11837	12497	12593	12218	11528	10809	9858	8442	6872	5742	5101	4694	4451	4417	4537	4820	5215	5814	6934	8462	9861	10840	11412	12265	12571	12466	11809	10687	9325	8177	7446	7195
57	6825	7108	7820	8978	10454	11764	12516	12629	12246	11533	10793	9779	8308	6685	5541	4904	4492	4244	4205	4319	4625	5038	5646	6771	8367	9812	10822	11421	12297	12607	12503	11755	10504	8999	7850	7089	6825
58	6425	6746	7445	8629	10222	11671	12537	12646	12273	11532	10755	9682	8145	6465	5309	4674	4252	4003	3955	4090	4407	4834	5451	6593	8240	9750	10788	11421	12304	12633	12529	11697	10305	8726	7510	6711	6425
59	6026	6349	7073	8318	9981	11561	12532	12662	12300	11518	10678	9554	7963	6214	5037	4402	4001	3742	3654	3821	4164	4609	5220	6384	8089	9642	10740	11403	12320	12656	12545	11618	10081	8415	7134	6355	6026
60	5560	5881	6699	7977	9719	11444	12526	12693	12328	11504	10601	9389	7732	5903	4762	4134	3719	3420	3355	3526	3891	4327	4974	6154	7914	9512	10684	11386	12342	12659	12544	11514	9845	8053	6770	5886	5560
61	5003	5277	6201	7570	9433	11274	12519	12720	12349	11491	10512	9214	7429	5595	4468	3848	3426	3133	3064	3224	3574	4060	4718	5888	7676	9364	10609	11373	12362	12675	12542	11402	9550	7688	6307	5390	5003
62	4328	4634	5641	7134	9074	11086	12489	12759	12367	11470	10419	8974	7124	5271	4127	3521	3099	2836	2767	2898	3272	3770	4409	5574	7419	9195	10511	11349	12373	12695	12534	11253	9250	7288	5783	4777	4328
63	3552	3931	4951	6659	8739	10906	12439	12790	12400	11429	10303	8781	6792	4888	3808	3212	2802	2523	2452	2602	2966	3442	4102	5259	7129	9025	10419	11310	12384	12703	12506	11064	8933	6820	5219	4059	3552
64	2850	3115	4215	6020	8316	10668	12374	12813	12440	11394	10166	8510	6409	4515	3486	2901	2512	2244	2176	2321	2665	3127	3786	4920	6803	8790	10300	11280	12393	12719	12461	10844	8505	6265	4498	3272	2850
65	2156	2435	3410	5282	7841	10392	12290	12831	12476	11351	10013	8210	6009	4133	3163	2599	2238	1988	1930	2062	2352	2815	3467	4562	6410	8526	10165	11257	12408	12730	12396	10619	8133	5616	3727	2547	2156
66	1654	1803	2642	4459	7291	10056	12201	12853	12515	11280	9827	7872	5543	3751	2830	2306	1952	1759	1707	1829	2084	2514	3137	4192	6020	8230	10011	11210	12445	12742	12308	10325	7621	4931	2935	1928	1654
67	1299	1399	1995	3666	6543	9695	12074	12876	12540	11185	9605	7443	5106	3382	2519	2017	1720	1539	1474	1598	1845	2235	2822	3780	5619	7911	9827	11159	12474	12742	12181	10005	7048	4124	2276	1504	1299
68	1157	1180	1527	2886	5719	9233	11946	12902	12522	11007	9325	6985	4651	2990	2193	1769	1475	1284	1261	1342	1631	1946	2484	3414	5199	7504	9634	11094	12494	12761	12052	9603	6322	3351	1738	1226	1157
69	1088	1098	1235	2156	4749	8672	11745	12910	12380	10757	9004	6492	4146	2648	1922	1549	1267	1153	1133	1195	1347	1712	2195	3064	4714	7085	9393	10998	12512	12786	11889	9172	5522	2652	1369	1124	1088
70	1040	1040	1110	1658	3848	7929	11479	12859	12176	10431	8626	5966	3692	2300	1673	1282	1128	1037	1019	1079	1195	1492	1922	2720	4258	6618	9079	10829	12467	12806	11685	8622	4677	2038	1191	1066	1040
71	992	997	1049	1309	3010	7029	11141	12732	11902	10052	8174	5387	3261	1975	1458	1120	1010	933	917	962	1070	1253	1653	2354	3804	6111	8718	10581	12288	12782	11440	7930	3787	1588	1097	1018	992
72	931	941	999	1121	2354	6109	10701	12561	11589	9514	7595	4855	2838	1677	1188	1002	905	817	789	854	970	1111	1435	2027	3360	5505	8276	10235	12032	12712	11122	7123	3050	1317	1037	965	931
73	858	886	950	1018	1752	5001	10131	12262	11182	8967	7043	4366	2428	1411	1043	899	792	704	675	736	878	990	1208	1728	2907	4983	7772	9847	11754	12549	10739	6261	2411	1136	978	899	858

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74	787	820	894	951	1310	3915	9279	11899	10605	8365	6465	3881	1978	1203	922	776	694	617	587	644	742	886	1057	1446	2508	4477	7232	9389	11386	12328	10212	5235	1815	1036	927	826	787
75	721	741	828	896	1032	2983	8258	11429	10027	7714	5835	3362	1605	988	816	684	616	534	504	555	666	772	933	1241	2116	4010	6624	8855	10913	11999	9539	4262	1407	960	854	758	721
76	662	684	760	839	872	2185	7098	10803	9362	7025	5248	2879	1306	852	691	612	511	441	429	469	584	686	823	1027	1732	3546	6030	8250	10375	11603	8564	3259	1102	899	791	702	662
77	608	619	684	791	781	1580	5892	10127	8667	6260	4690	2411	1070	743	607	512	430	378	373	401	482	615	707	885	1400	3043	5441	7587	9770	11117	7509	2410	918	842	716	638	608
78	552	558	611	719	712	1107	4705	9404	7985	5518	4156	1941	832	619	514	429	362	307	311	338	402	498	617	763	1121	2583	4859	6876	9074	10548	6431	1824	805	787	647	571	552
79	481	483	537	640	632	825	3723	8550	7169	4792	3659	1517	692	519	408	339	288	263	268	284	321	427	528	645	908	2131	4308	6204	8427	9794	5307	1306	726	717	578	506	481
80	420	426	464	549	550	674	2733	7426	6373	4104	3129	1143	593	418	322	279	227	186	183	210	273	344	417	539	748	1689	3753	5420	7730	8994	4148	915	645	624	498	440	420
81	366	372	395	455	463	554	1834	6343	5514	3377	2637	876	486	336	260	210	150	114	120	138	198	274	341	449	620	1278	3292	4673	6944	8060	3219	711	558	535	430	384	366
82	317	321	342	391	390	450	1121	5199	4617	2808	2104	630	384	273	196	142	95	62	56	87	130	202	279	368	511	988	2820	4017	6150	6984	2311	585	474	447	374	339	317
83	274	277	292	319	323	383	754	4157	3822	2320	1608	474	304	219	146	94	40	26	27	46	81	144	214	294	421	751	2335	3334	5229	5819	1508	477	397	380	320	294	274
84	238	236	243	261	274	309	550	3142	3265	1872	1191	344	224	170	110	53	33	12	14	14	43	103	164	236	340	552	1794	2756	4411	4799	893	405	334	314	274	250	238
85	197	196	201	214	225	252	386	2332	2634	1451	826	239	165	124	79	44	23	14	11	16	36	72	127	183	259	409	1329	2270	3628	3693	591	328	281	260	230	216	197
86	162	154	162	165	176	191	278	1565	2059	918	542	162	116	86	59	33	25	9	17	14	26	42	96	145	192	295	957	1769	3004	2793	422	261	230	212	181	167	162
87	119	114	113	121	122	132	188	900	1210	437	243	101	74	57	41	19	19	11	15	15	24	38	72	105	140	210	663	1336	2401	1942	308	203	179	166	143	131	119
88	83	73	79	74	70	85	112	353	351	115	74	49	41	32	26	17	16	9	12	15	14	29	51	71	93	142	386	862	1703	1211	207	147	131	118	106	92	83
89	49	27	37	34	37	44	48	56	44	21	22	22	20	16	16	10	11	14	11	12	15	9	29	31	61	84	148	400	971	635	135	99	89	77	58	57	49
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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[illegible]



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BUG

Lum. Classification System (LCS)

<u>LCS Zone</u>	<u>Lumens</u>	<u>%Lamp</u>	<u>%Lum</u>
FL (0-30)	4230.0	10.7	10.7
FM (30-60)	12497.8	31.5	31.5
FH (60-80)	6563.0	16.6	16.6
FVH (80-90)	600.5	1.5	1.5
BL (0-30)	3301.4	8.3	8.3
BM (30-60)	8528.9	21.5	21.5
BH (60-80)	3710.9	9.4	9.4
BVH (80-90)	214.2	0.5	0.5
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	39646.7	100.0	100.0
BUG Rating	B5-U0-G4		



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

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

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	120.0	60	2.451	293.79	0.999	2.04
4E-G1	277.0	60	1.070	287.08	0.969	7.1
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	70	R9	-31
Frequency (Hz)	60	R2	81	R10	55
CCT (K)	3744	R3	89	R11	69
Duv	-0.0013	R4	72	R12	49
Chromaticity (x, y)	x=0.3913 y=0.3804	R5	70	R13	72
Chromaticity (u', v')	u(u')=0.2308 v'=0.5048	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)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	42584.9	41971.1	>=30000(-10%)
Luminous Efficacy (lm/W)	144.95	146.20	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	142.86		

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

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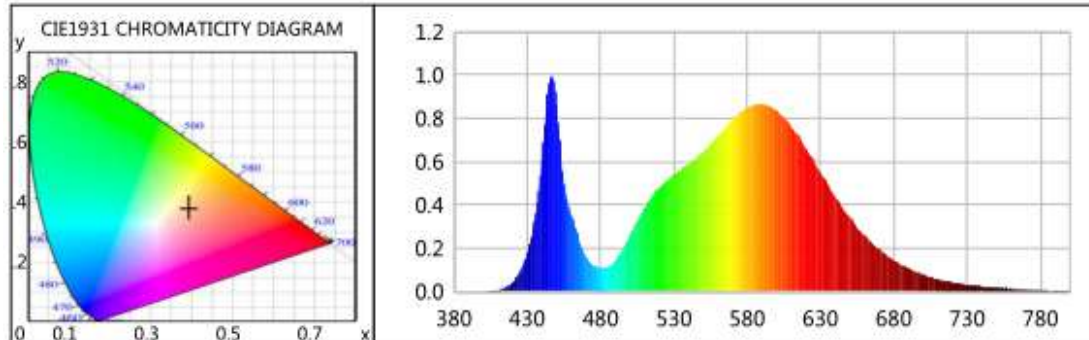
Report Format Number BL-FM-SA-012

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Report No.: BLC2103014E-G

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	0.4434	525	0.5123	459.1518	670	0.1943	174.1057
385	0.0003	0.2436	530	0.5387	482.8224	675	0.1673	149.9353
390	0.0006	0.5611	535	0.5625	504.0963	680	0.1446	129.5686
395	0.0004	0.3682	540	0.5892	528.0992	685	0.1238	110.9673
400	0.0009	0.7920	545	0.6134	549.7550	690	0.1070	95.8875
405	0.0028	2.5252	550	0.6451	578.2145	695	0.0917	82.1874
410	0.0073	6.5053	555	0.6797	609.1942	700	0.0779	69.7971
415	0.0185	16.5854	560	0.7185	643.9793	705	0.0666	59.6601
420	0.0422	37.8610	565	0.7561	677.6410	710	0.0573	51.3607
425	0.0892	79.9785	570	0.7935	711.1934	715	0.0485	43.4444
430	0.1762	157.9606	575	0.8265	740.7206	720	0.0422	37.8327
435	0.3259	292.0876	580	0.8496	761.4291	725	0.0354	31.7325
440	0.6105	547.1291	585	0.8620	772.5751	730	0.0303	27.1246
445	0.9643	864.2902	590	0.8649	775.1427	735	0.0258	23.1666
450	0.8626	773.1060	595	0.8565	767.6215	740	0.0218	19.5364
455	0.5020	449.9443	600	0.8381	751.1720	745	0.0193	17.2862
460	0.3521	315.6035	605	0.8052	721.6508	750	0.0167	14.9781
465	0.2498	223.9177	610	0.7645	685.1545	755	0.0143	12.8228
470	0.1575	141.2034	615	0.7177	643.2784	760	0.0124	11.0785
475	0.1205	108.0161	620	0.6633	594.4798	765	0.0104	9.3014
480	0.1095	98.1259	625	0.6068	543.8208	770	0.0091	8.1753
485	0.1126	100.9368	630	0.5487	491.7982	775	0.0072	6.4418
490	0.1409	126.2369	635	0.4936	442.3746	780	0.0065	5.8204
495	0.1927	172.6890	640	0.4393	393.7280	785	0.0057	5.1534
500	0.2560	229.4258	645	0.3872	347.0517	790	0.0050	4.4536
505	0.3202	287.0173	650	0.3407	305.3546	795	0.0040	3.5917
510	0.3842	344.3432	655	0.2969	266.0805	800	0.0037	3.3034
515	0.4365	391.1688	660	0.2590	232.1280			
520	0.4780	428.4180	665	0.2252	201.8410			

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TM30

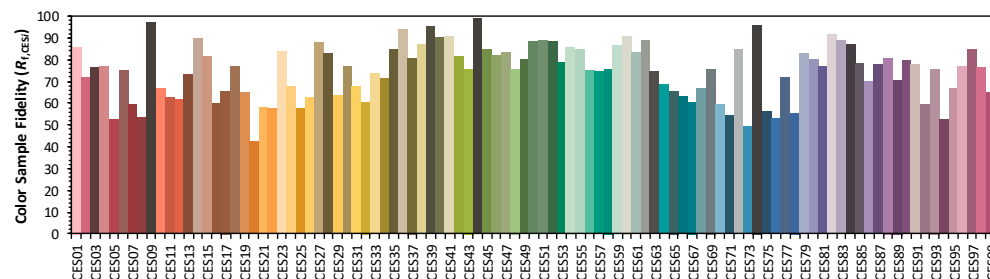
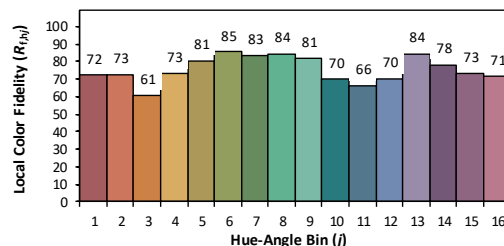
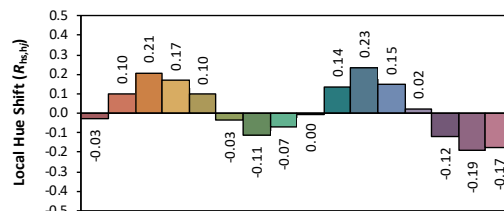
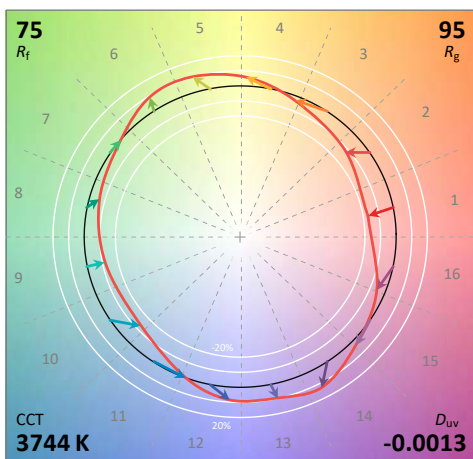
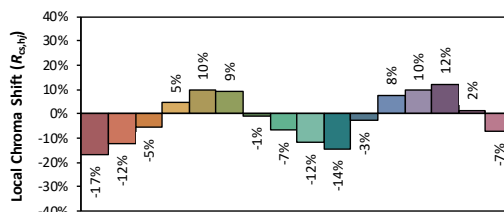
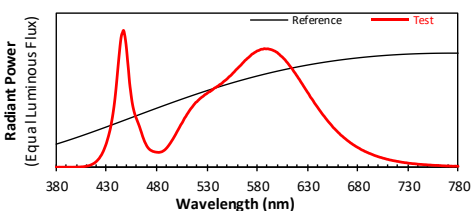
ANSI/IES TM-30-18 Color Rendition Report

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

Manufacturer: IK10 LED LIGHTING

Date: 2021/3/22

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



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

x 0.3913
 y 0.3804
 u' 0.2308
 v' 0.5048

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

Unit 401, No. 309 Xinxin Seven Road, Zengcheng District,
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Report Format Number BL-FM-SA-012



Report No.: BLC2103014E-G

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

Test date	2021-3-22	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	IK-SBSLG2-300W-304050K-MV (300W,50K) (Tested at 100% CCT Setting)		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC210301	120.0	60	2.550	305.65	0.999	2.06
4E-G1	277.0	60	1.086	291.44	0.969	7.23
DLC Pass Criteria					$\geq 0.9(-3\%)$	$\leq 20(+5)$

Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	68	R9	-40
Frequency (Hz)	60	R2	77	R10	45
CCT (K)	4869	R3	84	R11	69
Duv	0.0010	R4	72	R12	43
Chromaticity (x, y)	x=0.3491 y=0.3568	R5	69	R13	69
Chromaticity (u', v')	u(u')=0.2121 v'=0.4878	R6	68	R14	91
Color Rendering Index (CRI)	71	R7	80	R15	61
R9	-40	R8	53	--	--
Rf	72	--	--	--	--
Rg	95	--	--	--	--
Rcs,h1(%)	-18				

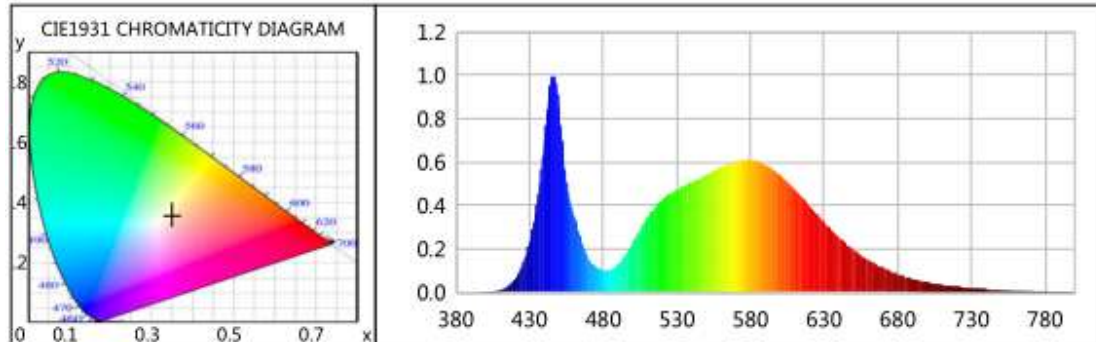
Photometric Measurement – Sphere-Spectroradiometer Method:

Parameter	Result		DLC V5.1 Pass Criteria
Test Voltage (V)	120.0	277.0	--
Frequency (Hz)	60	60	
Total Luminous (lm)	41660.1	40003.1	>=30000(-10%)
Luminous Efficacy (lm/W)	136.30	137.26	Premium: >= 120(-3%)
Most worst Luminous/Highest Watts	130.88		



Report No.: BLC2103014E-G

Spectral Power Distribution & Chromaticity Diagram



WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0003	0.3649	525	0.4537	508.3007	670	0.1115	124.9698
385	0.0006	0.6807	530	0.4733	530.2976	675	0.0964	107.9603
390	0.0002	0.1961	535	0.4905	549.5334	680	0.0840	94.1637
395	0.0006	0.6889	540	0.5098	571.1840	685	0.0730	81.7837
400	0.0016	1.7956	545	0.5235	586.5501	690	0.0626	70.1125
405	0.0037	4.1140	550	0.5407	605.8193	695	0.0534	59.8253
410	0.0110	12.3749	555	0.5579	625.0144	700	0.0466	52.1935
415	0.0274	30.7335	560	0.5762	645.5978	705	0.0396	44.3794
420	0.0602	67.4595	565	0.5906	661.6788	710	0.0336	37.6862
425	0.1229	137.7105	570	0.6024	674.9386	715	0.0295	33.0557
430	0.2330	261.0175	575	0.6095	682.8163	720	0.0256	28.6920
435	0.4089	458.1259	580	0.6096	682.9278	725	0.0217	24.3285
440	0.7041	788.8811	585	0.6001	672.3022	730	0.0183	20.4979
445	0.9929	1112.3788	590	0.5884	659.2312	735	0.0164	18.4010
450	0.8509	953.3123	595	0.5666	634.7823	740	0.0139	15.5613
455	0.5110	572.4948	600	0.5421	607.3037	745	0.0123	13.7389
460	0.3531	395.5510	605	0.5096	570.9282	750	0.0104	11.6060
465	0.2426	271.7959	610	0.4744	531.5243	755	0.0093	10.3855
470	0.1534	171.8737	615	0.4376	490.3000	760	0.0072	8.0126
475	0.1153	129.1716	620	0.3993	447.3416	765	0.0069	7.7754
480	0.1021	114.3697	625	0.3604	403.7240	770	0.0060	6.7718
485	0.1041	116.6653	630	0.3225	361.3357	775	0.0052	5.8421
490	0.1277	143.0691	635	0.2869	321.4796	780	0.0046	5.0999
495	0.1727	193.4546	640	0.2546	285.2641	785	0.0026	2.8612
500	0.2288	256.3475	645	0.2235	250.4470	790	0.0026	2.9243
505	0.2863	320.7448	650	0.1952	218.6466	795	0.0024	2.6899
510	0.3430	384.2365	655	0.1705	190.9996	800	0.0022	2.4903
515	0.3886	435.3593	660	0.1483	166.1289			
520	0.4238	474.7868	665	0.1287	144.2301			

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

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Report Format Number BL-FM-SA-012

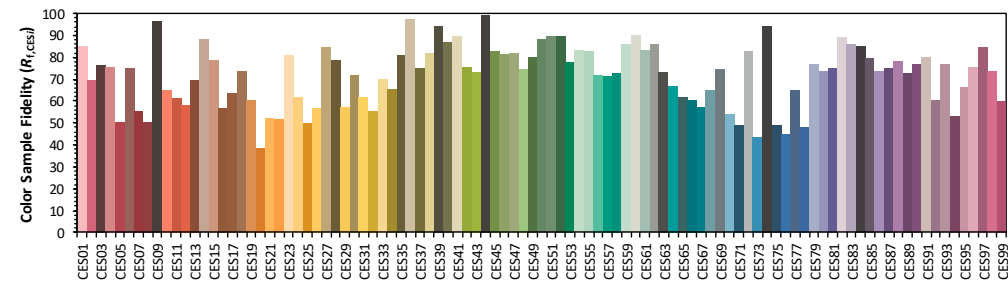
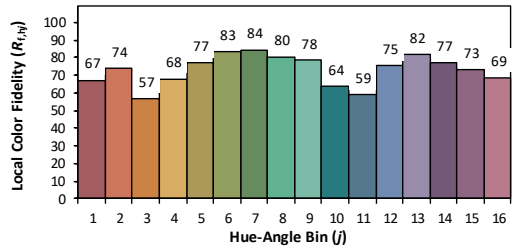
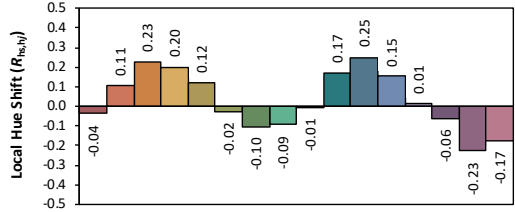
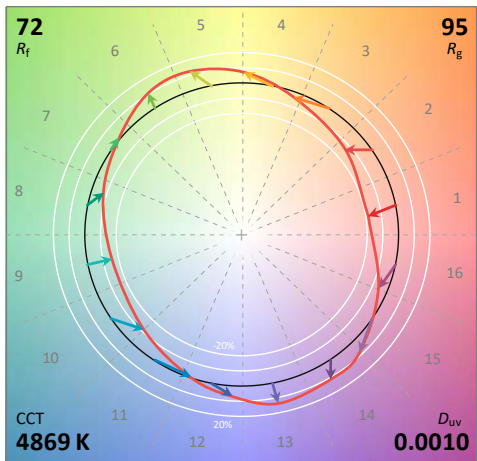
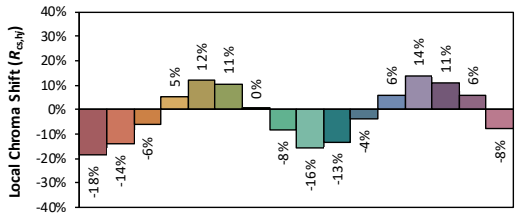
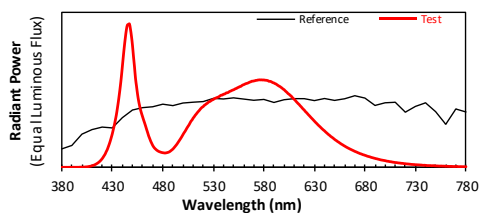


Report No.: BLC2103014E-G

TM30

ANSI/IES TM-30-18 Color Rendition Report

Source: BXEM-30C-12H-6C
Date: 2021/3/22
Manufacturer: IKIO LED LIGHTING
Model: IK-SBSLG2-300W-304050K-MV (300W, 50K)
(Tested at 100% CC Setting)



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

x	0.3491
y	0.3568
u'	0.2121
v'	0.4878

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.



Report No.: BLC2103014E-G

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 *****