ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3,Building 3, No. 17,Yigongliu road,Loucun community building, Xinhu Street,Guangming New district,Shenzhen 518107
Tel: (+86)755-2319 2554
Fax: (+86)755-2319 2815

ACCREDITED
Certificate #4703.03

Energy Star Test Report

For

L-TECH CORPORATION

(Brand Name:N/A)

Shaogangtou District, Qiaotou Town，Dongguan City

Model name(s): SSLKT600/603-5CCT

Report Type:	Testing and Report According to ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2
Type of Luminaire:	Downlight retrofits
Report Date:	2021-06-07

Test & Report By:

Garman Mo

Engineer: Garman Mo

Review By:

Johnson Sun

Manager: Johnson Sun

Note: 1.The results contained in this report pertain only to the tested samples.
2.This report does not imply product certification, approval, or endorsement by A2LA or any agency of the Federal Government.
3.This report contains data that are not covered by the A2LA accreditation.

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1.1 Product Information:		
Model Number	SSLKT600/603-5CCT	
Remark	N/A	
Representative (Tested) Model	SSLKT600/603-5CCT(2700K) SSLKT600/603-5CCT(3000K) SSLKT600/603-5CCT(3500K) SSLKT600/603-5CCT(4000K) SSLKT600/603-5CCT(5000K)	
Model Difference	N/A	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Downlight retrofits	
LED Manufacturer	EVERLIGHT ELECTRONICS CO., LTD	
LED Model	67-21S Series	
Dimming	10%-100%	
Sample Number	JCE210313-DL-H1	
Date of Receipt	Apr.05,2021	
Luminaire Aperture (for Downlight retrofits)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s
Recessed Can Model	H400/H400R	
Recessed Can UL File/Cert. No.	E252582	
Recessed Can Diameter, mm	4”	
Recessed Can Height, mm	5”	

1.2 Rated Values:	
Rated Voltage / Frequency	120Vac, 50/60Hz
Nominal Power	14.5W
Rated Initial Lamp Lumen	--
Declared CCT	2700K,3000K,3500K,4000K,5000K

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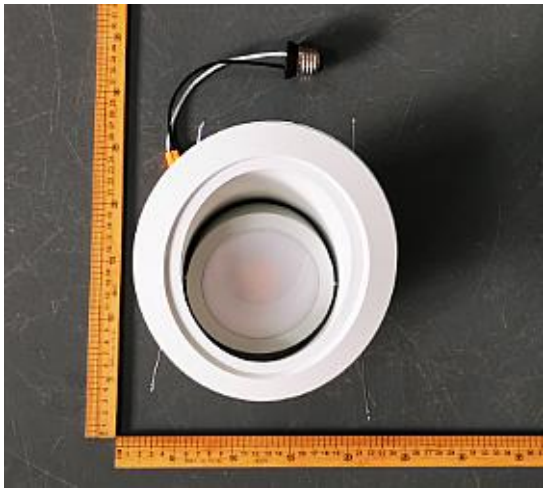
1.3 Product Photos



1.4 Test Specifications:

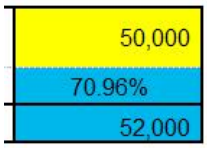
Test item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters 8. Color Angular Uniformity 9. Dimming 10. Flicker 11. Operating Frequency 12. Starting Time 13. Transient Protection Test 14. In-Situ Temperature Measurement Test 15. Standby Power Consumption
Reference Standard	1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products 2. ANSI C78.377-2015 Specifications for the Chromaticity of Solid State Lighting Products 3. C82.77-10:2014 American National Standard for Lighting Equipment-Harmonic Emission Limits-Related Power Quality Requirements 4. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources 5. CIE 15-2004 Technical Report Colorimetry 6. UL1993 4th Edition, Self-Ballasted Lamps and Lamp Adapters 7. ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) – Version 2.2 8. ANSI/IEEEE C62.41.2:2002 IEEE Recommended Practice on Characterization of Surges in Low-Voltage(1000V and Less) AC Power Circuits 9. IEC 62301:2011Household electrical appliances - Measurement of standby power 10. NEMA 77-2017 Standard for Temporal Light Artifacts: Test Methods and Guidance for Acceptance Criteria
Remark	Below test and data are not covered by A2LA accreditation: - Operating Frequency - Noise

1.5 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° C ± 1° 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 25º C ± 1º 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 25º C ± 1º 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 Summary of Test Result

Criteria Item	The Type of Luminaires	Requirement (ES for Luminaires V2.2)	Measured Value	Status
Input Wattage	All	≤ Rated Wattage	14.36W	Pass
Luminous Efficacy	Downlight retrofits	≥60 lm/W	61.57lm/W	Pass
Luminaire Minimum Light Output	Downlight retrofits	⩽ 4.5" aperture: 345 lumens > 4.5" aperture: 575 lumens	844.14lm	Pass
Correlated Color Temperature (CCT)	Downlight retrofits	Shall be capable of providing at least one of the following nominal correlated color temperatures (CCTs): • 2700 Kelvin • 3000 Kelvin • 3500 Kelvin • 4000 Kelvin • 5000 Kelvin	2706K Duv=-0.0006	Pass
Color Rendering Index (CRI)	Downlight retrofits	Ra ≥ 80 R9 >0	Ra =91.3 R9 =58	Pass
Luminaire Zonal Lumen Density	Downlight retrofits	Luminaire shall deliver a minimum of 75% of total lumens within the 0-60° zone (axially symmetric about the nadir)	87.7	Pass
Color Angular Uniformity	Downlight retrofits	Throughout the beam angle, the variation of chromaticity shall be within a total linear distance of 0.006 from the weighted average point on the CIE 1976 (u',v')diagram.	0.0014	Pass
Lumen Maintenance	Solid State Option 1:	L70 lumen maintenance: ≥ 25,000 hours for indoor ≥ 35,000 hours for outdoor ≥ 50,000 hours for inseparable luminaires	50,000 70.96% 52,000	Pass

Light Source Life	Solid State	L70 lumen maintenance: ≥ 25,000 hours for indoor ≥ 35,000 hours for outdoor ≥ 50,000 hours for inseparable luminaires		Pass
Color Maintenance	Downlight retrofits	Δu'v' ≤ 0.007	Max.0.00665 in LM-80 report*	Pass
Source Start Time	Downlight retrofits	<750 ms	68.0ms	Pass
Power Factor	Solid State	Total luminaire input power ≤ 5 watts: PF ≥ 0.5 Total luminaire input power > 5 watts: PF ≥ 0.7	0.976	Pass
Transient Protection	Solid State	The line transient shall consist of seven strikes of a 100 kHz ring wave, 2.5 kV level, for both common mode and differential mode.	Survival	Pass
Standby Power Consumption	All Luminaires	Luminaires shall not draw power in the off state.	0W	Pass
Operating Frequency	Solid State	Frequency ≥ 120 Hz	120.006Hz	Pass
Maximum Measured Driver Case Temperature	Solid State	shall not exceed the driver manufacturer's maximum recommended temperature during in situ operation. ≤ 105 °C	100.3°C	Pass
Maximum In-Situ Source Temperature	Solid State	Maximum permitted Ts temperature for L70≥50,000 hrs ≤ 105°C	98.2°C	Pass
Dimming	Solid State	The luminaire and its components shall provide continuous dimming from 100% to 20% of total light output. Luminaire shall not emit	Validated	Pass

		noise above 24dBA at 1 meter or less at the minimum output.		
CCT	Solid State	Packaging shall clearly describe the nominal color designation in units of Kelvin (e.g. 2700K, 3000K).	2700K,3000K,3500K,4000K,5000K	Pass

Note: The information or data with an "*" are provided by the manufacturer.

Our laboratory has no responsibility for the decision of compliance with specification that based on the data or information with the "*".

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2.2.1 Electrical, Photometric and Chromaticity Measurements	IES LM-79 2008

Test date	2021-04-08	Test Ambient:	25±1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	SSLKT600/603-5CCT(2700K)	Total Operating Time (min)	75

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-H1	120.0	60	0.123	14.36	0.976

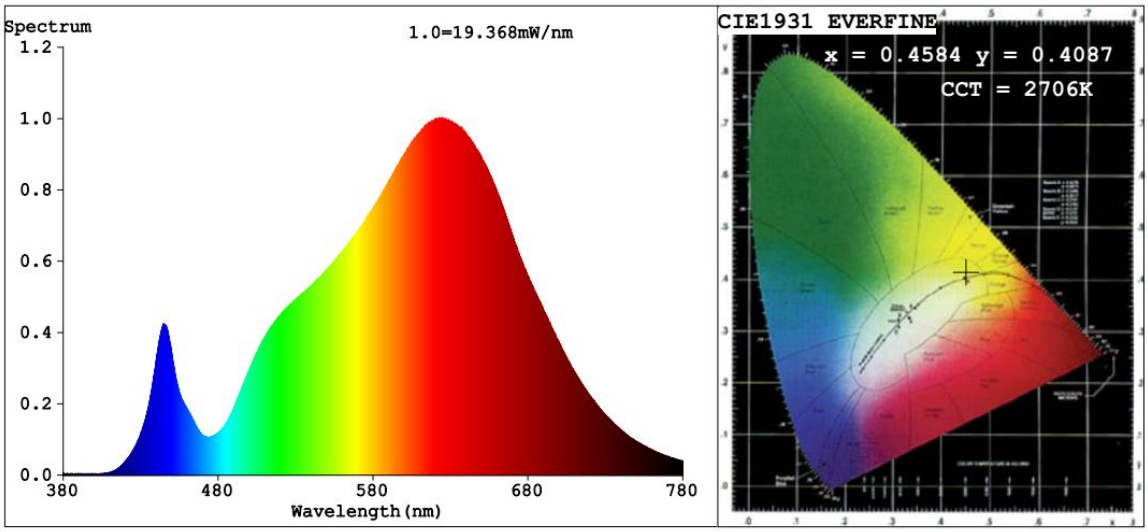
Sphere-Spectroradiometer Method(Self-absorption:1.0622):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	91.3
R9	58
CCT (K)	2706
Duv	-0.0006

Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	884.14
Luminous Efficacy (lm/W)	61.57
Beam Angle°	79.7
Center Beam Candle Power (cd)	423

Spectral Power Distribution and Chromaticity Diagram



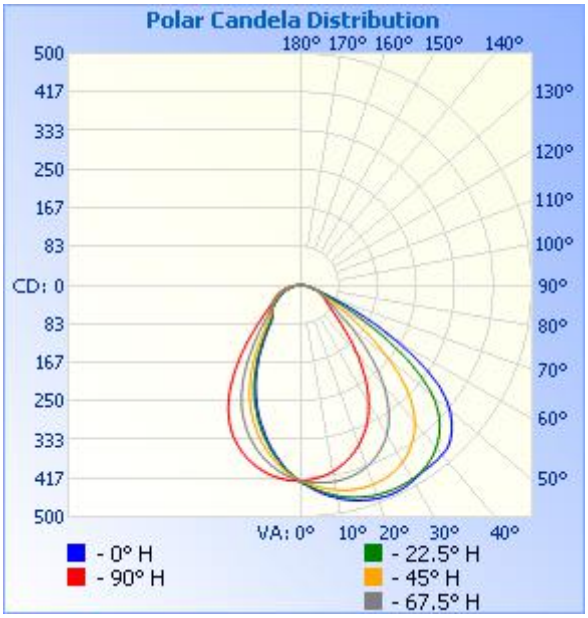
Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate:x=0.4584 y=0.4087/u'=0.2624 v'=0.5264
CCT=2706K(Duv=-0.0006) Dominant WL:Ld =584.4nm WL:Lc = --nm Purity=60.3%
Ratio:R=26.2% G=71.8% B=2.0% Peak WL:Lp=623.1nm FWHM=153.7nm
Render Index:Ra=91.3 AvgR=88.5 TM30:Rf=88 Rg=102

R1 =92	R2 =94	R3 =95	R4 =92	R5 =91	R6 =93	R7 =92	
R8 =82	R9 =58	R10=85	R11=94	R12=83	R13=92	R14=96	R15=88

Zonal Lumen Tabulation



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	315.1	35.6%
0-40	493.1	55.8%
0-60	775.5	87.7%
60-90	105.1	11.9%
70-100	41.6	4.7%
90-120	1.4	0.2%
0-90	880.7	99.6%
90-180	3.4	0.4%
0-180	884.0	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	39.9	4.5%	90-100	0.5	0.1%
10-20	112.3	12.7%	100-110	0.4	0%
20-30	162.9	18.4%	110-120	0.4	0.1%
30-40	178.0	20.1%	120-130	0.5	0.1%
40-50	162.5	18.4%	130-140	0.5	0.1%
50-60	120.0	13.6%	140-150	0.4	0%
60-70	64.0	7.2%	150-160	0.3	0%
70-80	31.5	3.6%	160-170	0.2	0%
80-90	9.6	1.1%	170-180	0.1	0%

	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	423	423	423	423	423	423	423	423	423	423	423	423	423	423	423	423	423
1	428	427	424	423	422	425	422	419	418	417	417	419	422	430	430	429	428
2	432	431	427	424	421	422	418	414	412	412	413	417	422	432	434	434	432
3	437	436	430	426	420	419	413	409	407	407	410	414	422	434	437	438	437
4	443	439	433	427	419	416	408	402	400	402	405	412	421	435	441	443	443
5	447	444	436	428	418	412	403	397	394	395	401	409	420	437	443	447	447
6	451	447	439	429	416	408	397	389	386	389	395	406	419	438	446	451	451
7	455	451	441	429	415	405	393	383	378	382	390	402	417	439	450	455	455
8	459	454	444	430	412	400	386	376	372	375	384	398	416	440	452	459	459
9	463	458	447	430	411	396	380	369	364	368	379	394	414	441	455	463	463
10	466	461	448	430	408	391	373	361	357	362	372	389	412	441	457	465	466
11	470	464	450	430	405	387	366	353	349	354	366	386	410	441	459	469	470
12	473	467	452	429	402	381	360	346	342	346	360	380	407	441	461	471	473
13	476	469	454	429	398	376	353	338	333	339	353	376	404	441	463	474	476
14	478	472	455	428	395	370	346	331	324	330	347	370	401	440	465	476	478
15	481	474	456	427	391	365	338	322	317	324	339	366	398	439	466	479	481
16	483	476	457	426	387	358	332	313	308	315	333	360	394	438	468	481	483
17	485	478	458	424	382	351	323	306	301	307	325	353	391	436	468	483	485
18	487	479	458	422	378	345	315	297	291	298	317	348	386	434	469	484	487
19	488	481	458	420	373	338	308	289	283	289	310	341	382	433	469	486	488
20	490	482	458	417	368	332	299	279	274	281	301	335	377	430	469	487	490
21	491	483	458	415	362	324	291	272	264	272	294	327	372	428	469	488	491
22	491	483	457	411	356	317	282	262	256	264	285	319	367	425	469	489	491
23	492	484	456	408	350	309	274	251	245	254	275	313	361	421	468	489	492
24	492	484	455	404	343	299	264	243	237	244	268	304	356	418	468	490	492
25	492	485	453	399	337	292	253	232	227	235	258	297	349	414	467	490	492
26	492	485	452	395	329	282	245	222	216	224	249	288	342	410	465	490	492
27	491	485	450	390	322	272	234	213	207	213	239	278	336	405	463	490	491
28	490	484	447	386	313	263	223	202	196	204	228	269	327	400	461	490	490
29	489	484	444	379	304	252	214	190	185	193	219	259	318	394	458	489	489
30	487	483	441	373	296	241	203	181	176	184	208	248	311	389	456	489	487

31	485	482	438	366	286	232	191	170	165	173	196	239	301	382	452	488	485
32	483	481	434	360	277	220	182	159	154	162	187	227	290	376	449	487	483
33	482	480	429	351	266	209	171	151	145	154	176	216	281	368	445	486	482
34	481	477	425	342	256	199	161	141	135	143	165	206	270	359	441	485	481
35	480	475	419	334	244	188	150	131	126	133	157	195	258	351	436	484	480
36	480	472	414	323	232	177	142	124	118	126	146	183	246	341	431	482	480
37	480	469	407	314	222	165	133	115	110	117	136	172	236	332	425	479	480
38	479	465	401	302	210	157	124	108	103	109	127	163	223	320	419	476	479
39	478	462	393	291	200	146	117	103	98	102	120	153	211	310	412	473	478
40	477	457	385	278	188	136	110	98	95	98	113	143	201	297	405	469	477
41	475	452	375	267	178	129	103	94	92	94	106	135	189	286	396	464	475
42	474	446	366	253	166	120	99	91	91	91	101	126	176	272	387	460	474
43	470	440	354	238	154	112	94	90	90	90	96	118	167	258	376	453	470
44	466	433	344	227	145	107	91	89	89	88	92	111	156	246	366	448	466
45	460	426	329	212	134	100	88	87	87	87	88	105	145	231	352	440	460
46	455	417	317	200	127	95	86	86	85	86	86	99	135	219	341	433	455
47	447	409	301	185	117	91	85	84	84	84	85	94	127	204	325	423	447
48	440	398	287	173	110	87	83	82	81	82	83	90	118	193	309	414	440
49	430	388	269	159	103	84	82	80	79	81	82	86	110	179	295	403	430
50	422	373	250	148	98	82	80	78	77	79	80	84	104	167	277	392	422
51	411	360	235	136	92	79	79	76	75	76	79	81	97	154	263	376	411
52	400	342	216	126	88	77	76	74	73	74	77	78	93	144	244	363	400
53	385	326	201	115	83	76	74	71	70	72	75	77	87	132	229	344	385
54	371	304	182	105	79	74	72	69	68	70	73	75	83	121	211	328	371
55	351	286	168	98	76	72	70	66	65	67	71	73	79	112	196	306	351
56	333	262	150	91	73	70	67	63	62	65	69	72	76	103	178	284	333
57	308	237	137	85	70	68	65	61	60	63	67	70	72	96	164	265	308
58	288	218	122	79	67	67	62	58	58	60	64	68	70	89	147	247	288
59	261	194	112	75	65	64	60	56	55	57	62	66	67	83	135	223	261
60	240	176	99	70	63	62	57	54	53	55	60	64	65	78	120	200	240
61	214	154	89	67	62	60	55	51	50	53	58	62	63	74	106	181	214
62	193	138	81	63	60	58	53	49	48	51	56	60	61	69	97	159	193

63	168	119	73	60	58	56	50	46	46	48	53	58	60	66	86	143	168
64	149	106	68	56	56	53	47	44	43	46	51	56	58	62	79	123	149
65	127	90	62	54	54	50	45	42	41	44	49	54	56	59	71	108	127
66	111	80	57	51	52	48	43	40	39	41	46	52	54	56	66	92	111
67	93	69	53	49	51	46	41	37	37	39	44	49	52	53	60	81	93
68	80	61	49	47	48	43	39	36	35	37	41	47	50	51	56	69	80
69	67	53	45	46	46	41	36	33	33	35	39	45	48	49	51	61	67
70	58	48	42	44	44	38	35	32	31	33	37	42	46	47	48	53	58
71	49	42	39	42	42	36	32	29	29	31	35	40	44	45	45	48	49
72	44	38	37	40	39	34	30	28	27	29	33	38	41	44	41	43	44
73	38	34	35	38	37	32	28	26	25	27	31	35	39	42	38	37	38
74	33	31	34	36	35	29	26	24	23	25	29	33	37	40	36	34	33
75	28	27	32	34	33	28	24	22	22	23	27	31	35	38	35	30	28
76	25	26	30	32	30	25	22	20	20	21	25	29	32	36	33	28	25
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78	21	23	27	27	25	21	18	17	17	18	20	25	28	32	30	24	21
79	20	22	24	25	23	19	17	15	15	16	19	22	25	30	28	23	20
80	19	20	22	22	21	17	15	13	13	15	17	20	23	27	26	21	19
81	17	18	20	19	19	15	13	12	12	13	15	18	20	25	24	20	17
82	16	17	18	17	16	12	11	10	10	11	13	16	17	22	22	18	16
83	14	14	15	15	14	10	9	9	9	10	12	13	15	20	19	16	14
84	12	12	13	12	11	8	7	7	7	8	10	12	13	17	17	14	12
85	9	9	9	9	9	5	5	5	6	6	8	9	10	14	14	12	9
86	7	6	6	6	6	4	3	3	4	5	6	7	7	12	12	9	7
87	3	2	2	3	4	2	2	2	2	3	3	4	4	9	8	5	3
88	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1
89	1	1	1	1	1	0	0	1	1	1	1	0	0	3	1	1	1
90	1	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	1
91	1	1	1	0	1	0	0	1	1	1	0	0	0	1	1	1	1
92	1	0	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1
93	1	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1
94	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1

95	0	1	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0
96	1	0	0	1	0	0	0	1	1	1	0	0	0	1	0	0	1
97	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0
98	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0
99	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1
100	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1	0
101	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0
102	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0
103	1	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	1
104	1	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1
105	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
107	1	0	0	0	1	0	1	0	1	0	1	0	0	0	0	1	1
108	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
110	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
111	0	1	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0
112	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0
113	0	0	1	0	1	0	1	1	0	1	1	0	0	1	0	0	0
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116	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0	0
117	0	0	0	1	0	1	1	1	1	1	1	0	0	0	1	0	0
118	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0
119	0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	0	0
120	0	0	1	0	1	1	1	1	1	1	1	1	0	1	0	0	0
121	0	0	1	0	1	1	1	1	1	1	1	0	0	1	1	0	0
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124	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1
125	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0
126	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0

127	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0
128	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0
129	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0
130	1	0	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1
131	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	0	1
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133	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1
134	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0
135	1	0	0	1	1	1	1	1	2	1	1	1	1	1	0	1	1
136	1	0	1	1	1	1	1	1	2	1	1	1	1	1	0	0	1
137	0	0	0	1	1	1	1	1	2	1	1	1	1	1	0	1	0
138	0	0	1	1	1	1	1	1	2	1	1	1	0	1	1	1	0
139	0	0	1	1	1	1	1	1	2	1	1	1	0	1	1	1	0
140	1	0	0	1	1	1	1	1	2	1	1	1	0	1	1	1	1
141	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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179	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
180	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3,Building 3, No. 17,Yigongliu road,Loucun community building, Xinhu Street,Guangming New district,Shenzhen 518107
Tel: (+86)755-2319 2554
Fax: (+86)755-2319 2815

2.2.2 Electrical, Photometric and Chromaticity Measurements	IES LM-79 2008

Test date	2021-04-08	Test Ambient:	25±1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	SSLKT600/603-5CCT(3000K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-H1	120.0	60	0.124	14.32	0.966

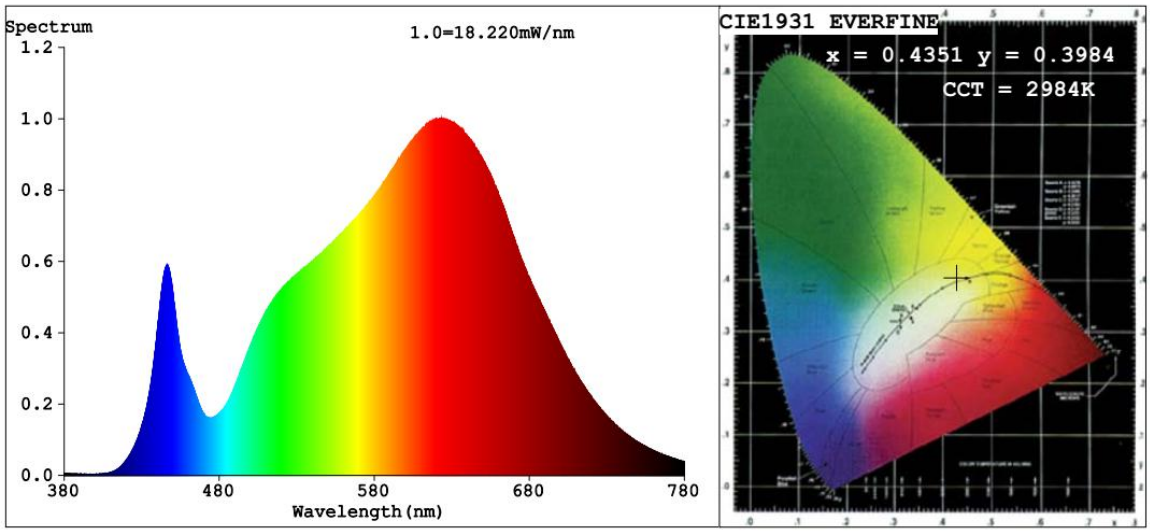
Sphere-Spectroradiometer Method(Self-absorption:1.0622):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	92.6
R9	66
CCT (K)	2984
Duv	-0.0020

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	894.6
Luminous Efficacy (lm/W)	62.47

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate:x=0.4351 y=0.3984/u'=0.2518 v'=0.5189

CCT=2984K(Duv=-0.0020) Dominant WL:Ld =583.6nm WL:Lc = --nm Purity=50.2%

Ratio:R=24.5% G=73.0% B=2.5% Peak WL:Lp=623.7nm FWHM=169.3nm

Render Index:Ra=92.6 AvgR=90.2 TM30:Rf=90 Rg=103

R1 =94	R2 =95	R3 =95	R4 =93	R5 =93	R6 =94	R7 =93	
R8 =85	R9 =66	R10=87	R11=94	R12=84	R13=94	R14=96	R15=91

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Floor 3,Building 3, No. 17,Yigongliu road,Loucun community building, Xinhu Street,Guangming New district,Shenzhen 518107
Tel: (+86)755-2319 2554
Fax: (+86)755-2319 2815

2.2.3 Electrical, Photometric and Chromaticity Measurements	IES LM-79 2008

Test date	2021-04-08	Test Ambient:	25±1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	SSLKT600/603-5CCT(3500K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-H1	120.0	60	0.124	14.32	0.966

Sphere-Spectroradiometer Method(Self-absorption:1.0622):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	93.6
R9	72
CCT (K)	3406
Duv	-0.0024

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	916.5
Luminous Efficacy (lm/W)	64.00

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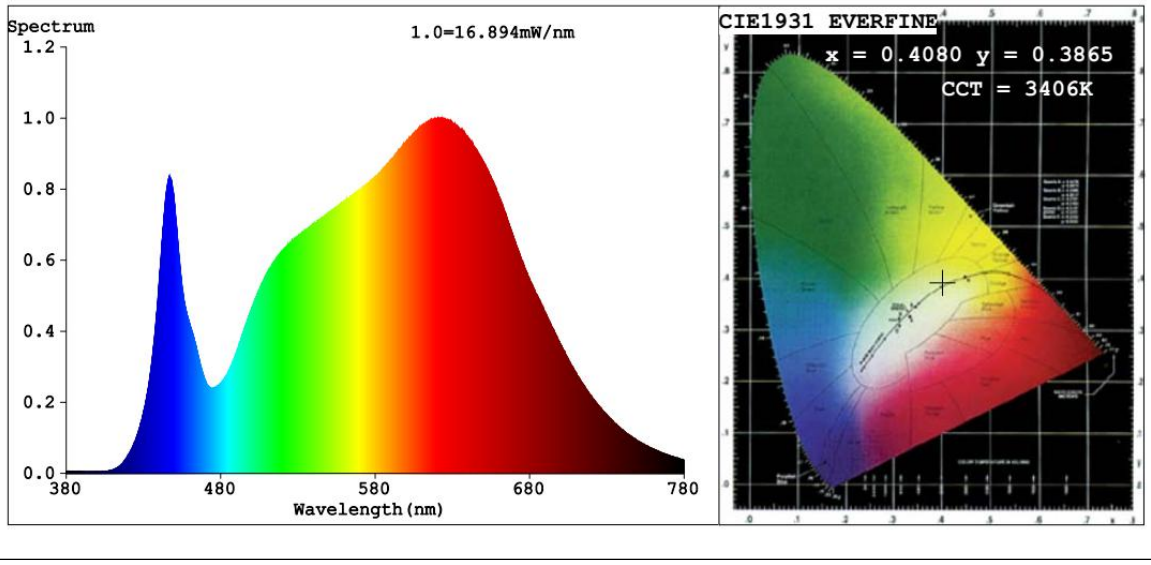
Tel: (+86)755-2319 2554
Fax: (+86)755-2319 2815

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate:x=0.4080 y=0.3865/u'=0.2392 v'=0.5099
CCT=3406K(Duv=-0.0024) Dominant WL:Ld =582.3nm WL:Lc = --nm Purity=38.5%
Ratio:R=22.3% G=74.5% B=3.2% Peak WL:Lp=620.8nm FWHM=181.7nm
Render Index:Ra=93.6 AvgR=91.3 TM30:Rf=91 Rg=103

R1 =95	R2 =95	R3 =94	R4 =94	R5 =95	R6 =93	R7 =94	
R8 =89	R9 =72	R10=88	R11=94	R12=82	R13=95	R14=96	R15=93

2.2.4 Electrical, Photometric and Chromaticity Measurements	IES LM-79 2008

Test date	2021-04-08	Test Ambient:	25±1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	SSLKT600/603-5CCT(4000K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-H1	120.0	60	0.123	14.32	0.966

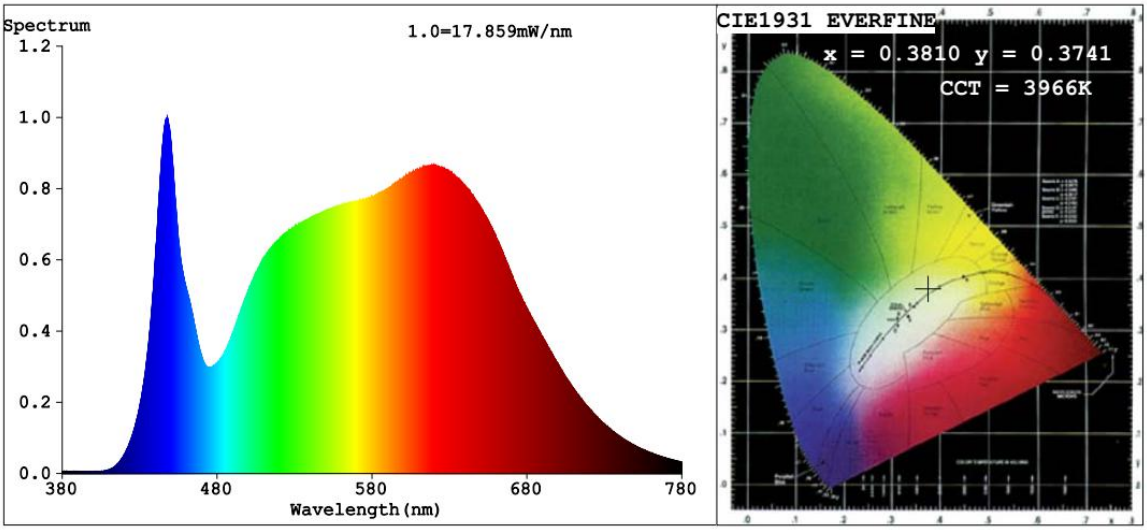
Sphere-Spectroradiometer Method(Self-absorption:1.0622):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	93.8
R9	75
CCT (K)	3966
Duv	-0.0014

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	960.0
Luminous Efficacy (lm/W)	67.04

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate:x=0.3810 y=0.3741/u'=0.2265 v'=0.5005

CCT=3966K(Duv=-0.0014) Dominant WL:Ld =580.0nm WL:Lc = --nm Purity=26.6%

Ratio:R=20.1% G=76.0% B=3.9% Peak WL:Lp=447.8nm FWHM=22.9nm

Render Index:Ra=93.8 AvgR=91.3 TM30:Rf=92 Rg=102

R1 =95	R2 =95	R3 =93	R4 =94	R5 =94	R6 =92	R7 =95	
R8 =91	R9 =75	R10=87	R11=94	R12=78	R13=95	R14=96	R15=94

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Floor 3,Building 3, No. 17,Yigongliu road,Loucun community building, Xinhu Street,Guangming New district,Shenzhen 518107
Tel: (+86)755-2319 2554
Fax: (+86)755-2319 2815

2.2.5 Electrical, Photometric and Chromaticity Measurements	IES LM-79 2008

Test date	2021-04-08	Test Ambient:	25±1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	SSLKT600/603-5CCT(5000K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-H1	120.0	60	0.123	14.26	0.967

Sphere-Spectroradiometer Method(Self-absorption:1.0622):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	92.3
R9	69
CCT (K)	4989
Duv	0.0024

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	973.4
Luminous Efficacy (lm/W)	68.26

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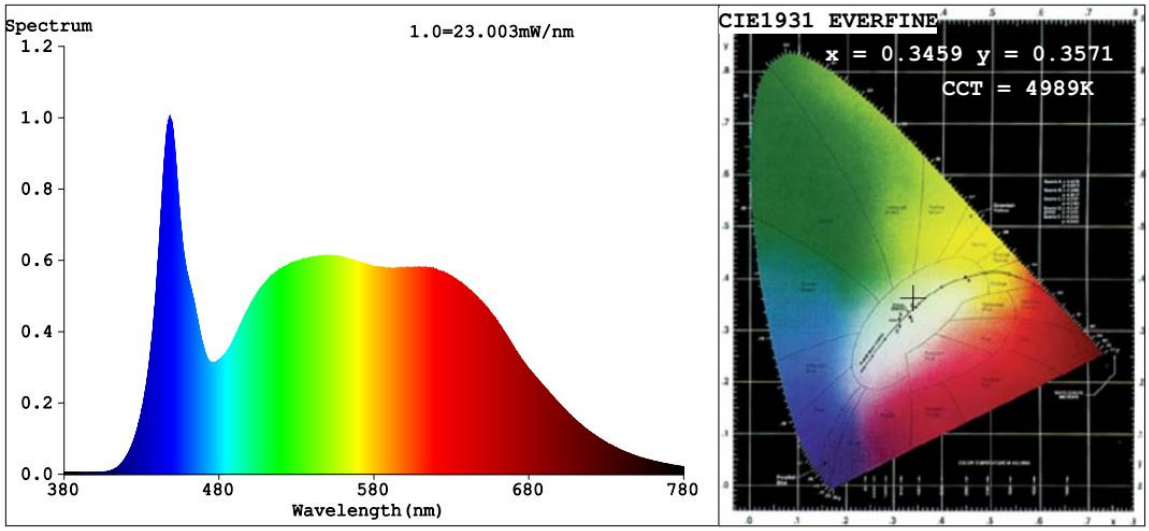
Fax: (+86)755-2319 2815

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate:x=0.3459 y=0.3571/u'=0.2098 v'=0.4874
CCT=4989K(Duv=0.0024) Dominant WL:Ld =570.6nm WL:Lc = --nm Purity=10.9%
Ratio:R=17.1% G=78.0% B=4.9% Peak WL:Lp=448.5nm FWHM=23.9nm
Render Index:Ra=92.3 AvgR=88.8 TM30:Rf=92 Rg=101

R1 =92	R2 =93	R3 =93	R4 =93	R5 =91	R6 =90	R7 =96	
R8 =90	R9 =69	R10=83	R11=92	R12=70	R13=92	R14=96	R15=91

2.3 Color Spatial Uniformity	**IES LM-79 2008** **ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2**

Test Data:

Test date	2021-04-08	Test Ambient	25.1°C
Sample No.		Maximum Δu'v'	
JCE210313-DL-H1		0.0014	

C0				C90			
gamma	Δu'	Δv'	Δu'v'	gamma	Δu'	Δv'	Δu'v'
0	0.00047	0.00018	0.00051	0	0.00014	-0.00009	0.00016
1	0.00047	0.00018	0.00051	1	0.00020	-0.00008	0.00022
2	0.00047	0.00018	0.00051	2	0.00016	-0.00004	0.00016
3	0.00041	0.00017	0.00044	3	0.00020	-0.00008	0.00022
4	0.00047	0.00018	0.00051	4	0.00020	-0.00008	0.00022
5	0.00052	0.00014	0.00054	5	0.00020	-0.00008	0.00022
6	0.00045	0.00013	0.00047	6	0.00027	-0.00006	0.00027
7	0.00045	0.00013	0.00047	7	0.00027	-0.00006	0.00027
8	0.00045	0.00013	0.00047	8	0.00031	-0.00010	0.00033
9	0.00050	0.00009	0.00051	9	0.00031	-0.00010	0.00033
10	0.00045	0.00013	0.00047	10	0.00031	-0.00010	0.00033
11	0.00044	0.00007	0.00044	11	0.00031	-0.00010	0.00033
12	0.00044	0.00007	0.00044	12	0.00031	-0.00010	0.00033
13	0.00048	0.00004	0.00048	13	0.00031	-0.00010	0.00033
14	0.00044	0.00007	0.00044	14	0.00025	-0.00012	0.00027
15	0.00044	0.00007	0.00044	15	0.00031	-0.00010	0.00033
16	0.00048	0.00004	0.00048	16	0.00029	-0.00016	0.00033
17	0.00042	0.00002	0.00042	17	0.00029	-0.00016	0.00033
18	0.00042	0.00002	0.00042	18	0.00036	-0.00014	0.00038
19	0.00042	0.00002	0.00042	19	0.00040	-0.00018	0.00044
20	0.00042	0.00002	0.00042	20	0.00029	-0.00016	0.00033
21	0.00035	0.00001	0.00035	21	0.00038	-0.00023	0.00045
22	0.00035	0.00001	0.00035	22	0.00040	-0.00018	0.00044
23	0.00038	-0.00009	0.00039	23	0.00040	-0.00018	0.00044
24	0.00038	-0.00009	0.00039	24	0.00045	-0.00022	0.00050
25	0.00031	-0.00010	0.00033	25	0.00043	-0.00027	0.00051
26	0.00031	-0.00010	0.00033	26	0.00049	-0.00026	0.00056
27	0.00029	-0.00016	0.00033	27	0.00049	-0.00026	0.00056
28	0.00018	-0.00013	0.00022	28	0.00054	-0.00030	0.00061
29	0.00027	-0.00021	0.00034	29	0.00049	-0.00026	0.00056
30	0.00010	-0.00020	0.00022	30	0.00054	-0.00030	0.00061
31	0.00008	-0.00025	0.00027	31	0.00054	-0.00030	0.00061
32	-0.00001	-0.00032	0.00032	32	0.00054	-0.00030	0.00061
33	-0.00007	-0.00034	0.00035	33	0.00058	-0.00033	0.00067
34	-0.00014	-0.00035	0.00038	34	0.00058	-0.00033	0.00067
35	-0.00016	-0.00041	0.00044	35	0.00058	-0.00033	0.00067
36	-0.00022	-0.00042	0.00048	36	0.00058	-0.00033	0.00067
37	-0.00031	-0.00049	0.00058	37	0.00058	-0.00033	0.00067
38	-0.00042	-0.00047	0.00063	38	0.00058	-0.00033	0.00067
39	-0.00044	-0.00052	0.00068	39	0.00065	-0.00032	0.00072
40	-0.00048	-0.00048	0.00068	40	0.00069	-0.00036	0.00078
41	-0.00057	-0.00055	0.00079	41	0.00065	-0.00032	0.00072
42	-0.00059	-0.00046	0.00075	42	0.00065	-0.00032	0.00072
43	-0.00070	-0.00044	0.00083	43	0.00071	-0.00030	0.00078
44	-0.00070	-0.00044	0.00083	44	0.00071	-0.00030	0.00078
45	-0.00073	-0.00034	0.00081	45	0.00082	-0.00033	0.00089
46	-0.00062	-0.00022	0.00066	46	0.00071	-0.00030	0.00078
47	-0.00054	-0.00015	0.00056	47	0.00076	-0.00034	0.00083
48	-0.00053	0.00005	0.00053	48	0.00078	-0.00029	0.00083
49	-0.00042	0.00017	0.00045	49	0.00082	-0.00033	0.00089
50	-0.00027	0.00025	0.00037	50	0.00089	-0.00031	0.00094
51	-0.00019	0.00047	0.00051	51	0.00089	-0.00031	0.00094

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C0				C90			
gamma	Δu'	Δv'	Δu'v'	gamma	Δu'	Δv'	Δu'v'
52	-0.00004	0.00055	0.00055	52	0.00089	-0.00031	0.00094
53	0.00011	0.00064	0.00065	53	0.00095	-0.00030	0.00100
54	0.00019	0.00071	0.00073	54	0.00100	-0.00034	0.00105
55	0.00021	0.00076	0.00079	55	0.00100	-0.00034	0.00105
56	0.00026	0.00072	0.00076	56	0.00091	-0.00041	0.00100
57	0.00028	0.00077	0.00082	57	0.00083	-0.00047	0.00096
58	0.00032	0.00074	0.00080	58	0.00070	-0.00051	0.00086
59	0.00037	0.00070	0.00079	59	0.00061	-0.00057	0.00084

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Floor 3,Building 3, No. 17,Yigongliu road,Loucun community building, Xinhu Stre et,Guangming New district,Shenzhen 518107
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Fax: (+86)755-2319 2815

C180				C270			
gamma	Δu'	Δv'	Δu'v'	gamma	Δu'	Δv'	Δu'v'
0	0.00047	0.00018	0.00051	0	0.00014	-0.00009	0.00016
1	0.00047	0.00018	0.00051	1	0.00014	-0.00009	0.00016
2	0.00043	0.00022	0.00048	2	0.00014	-0.00009	0.00016
3	0.00047	0.00018	0.00051	3	0.00007	-0.00011	0.00013
4	0.00049	0.00024	0.00055	4	0.00007	-0.00011	0.00013
5	0.00043	0.00022	0.00048	5	0.00007	-0.00011	0.00013
6	0.00049	0.00024	0.00055	6	0.00007	-0.00011	0.00013
7	0.00049	0.00024	0.00055	7	0.00012	-0.00015	0.00019
8	0.00045	0.00027	0.00053	8	0.00005	-0.00016	0.00017
9	0.00043	0.00022	0.00048	9	-0.00001	-0.00018	0.00018
10	0.00045	0.00027	0.00053	10	0.00010	-0.00020	0.00022
11	0.00038	0.00026	0.00046	11	-0.00001	-0.00018	0.00018
12	0.00038	0.00026	0.00046	12	-0.00001	-0.00018	0.00018
13	0.00034	0.00030	0.00045	13	-0.00003	-0.00023	0.00023
14	0.00038	0.00026	0.00046	14	-0.00003	-0.00023	0.00023
15	0.00038	0.00026	0.00046	15	-0.00010	-0.00025	0.00027
16	0.00027	0.00028	0.00039	16	-0.00012	-0.00030	0.00032
17	0.00027	0.00028	0.00039	17	-0.00012	-0.00030	0.00032
18	0.00027	0.00028	0.00039	18	-0.00014	-0.00035	0.00038
19	0.00021	0.00027	0.00034	19	-0.00020	-0.00037	0.00042
20	0.00021	0.00027	0.00034	20	-0.00027	-0.00038	0.00047
21	0.00021	0.00027	0.00034	21	-0.00027	-0.00038	0.00047
22	0.00021	0.00027	0.00034	22	-0.00035	-0.00045	0.00057
23	0.00014	0.00025	0.00029	23	-0.00035	-0.00045	0.00057
24	0.00014	0.00025	0.00029	24	-0.00044	-0.00052	0.00068
25	0.00014	0.00025	0.00029	25	-0.00048	-0.00048	0.00068
26	0.00014	0.00025	0.00029	26	-0.00046	-0.00058	0.00074
27	0.00006	0.00018	0.00019	27	-0.00061	-0.00051	0.00080
28	-0.00005	0.00021	0.00021	28	-0.00061	-0.00051	0.00080
29	-0.00001	0.00017	0.00017	29	-0.00068	-0.00053	0.00086
30	-0.00007	0.00015	0.00017	30	-0.00072	-0.00049	0.00087
31	-0.00020	0.00012	0.00024	31	-0.00064	-0.00042	0.00076
32	-0.00033	0.00009	0.00034	32	-0.00068	-0.00038	0.00078
33	-0.00033	0.00009	0.00034	33	-0.00060	-0.00031	0.00068
34	-0.00046	0.00006	0.00046	34	-0.00056	-0.00021	0.00060
35	-0.00054	-0.00001	0.00054	35	-0.00043	-0.00003	0.00044
36	-0.00065	0.00002	0.00066	36	-0.00044	0.00012	0.00046
37	-0.00065	0.00002	0.00066	37	-0.00025	0.00031	0.00040
38	-0.00076	0.00004	0.00077	38	-0.00006	0.00050	0.00050
39	-0.00085	-0.00003	0.00085	39	0.00011	0.00064	0.00065
40	-0.00102	-0.00002	0.00102	40	0.00008	0.00073	0.00073
41	-0.00102	-0.00002	0.00102	41	0.00015	0.00074	0.00076
42	-0.00107	0.00002	0.00107	42	0.00013	0.00069	0.00070
43	-0.00107	0.00002	0.00107	43	0.00006	0.00068	0.00068
44	-0.00122	0.00008	0.00123	44	0.00024	0.00067	0.00071
45	-0.00120	0.00014	0.00121	45	0.00009	0.00058	0.00059
46	-0.00118	0.00019	0.00120	46	0.00013	0.00054	0.00056
47	-0.00114	0.00030	0.00118	47	0.00009	0.00058	0.00059
48	-0.00121	0.00043	0.00129	48	0.00000	0.00051	0.00051
49	-0.00109	0.00046	0.00118	49	-0.00002	0.00046	0.00046
50	-0.00103	0.00062	0.00120	50	0.00003	0.00042	0.00042
51	-0.00090	0.00079	0.00120	51	-0.00010	0.00039	0.00040

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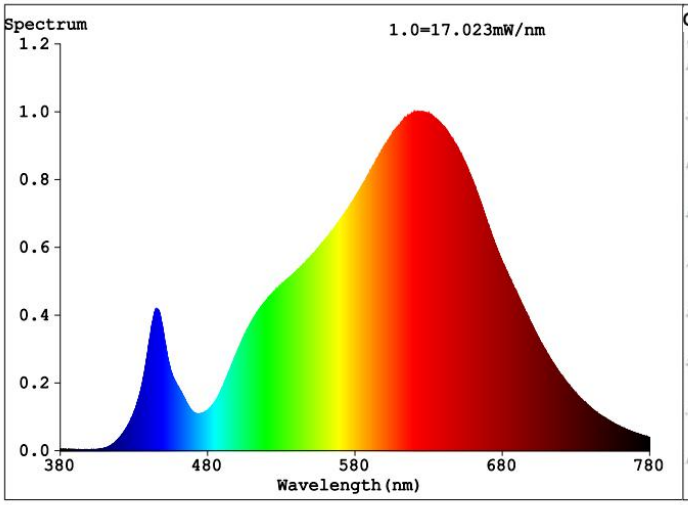
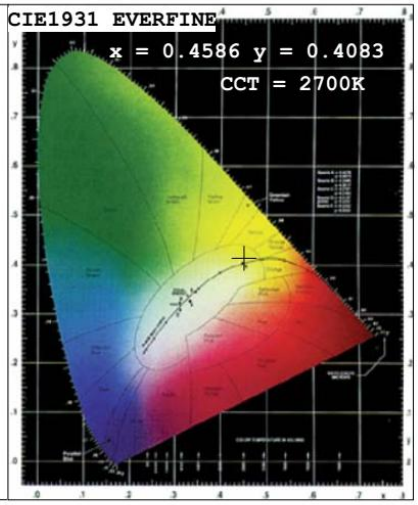
C180				C270			
gamma	Δu'	Δv'	Δu'v'	gamma	Δu'	Δv'	Δu'v'
52	-0.00082	0.00086	0.00119	52	-0.00008	0.00030	0.00031
53	-0.00076	0.00102	0.00127	53	-0.00014	0.00028	0.00032
54	-0.00067	0.00109	0.00128	54	-0.00021	0.00027	0.00034
55	-0.00061	0.00111	0.00126	55	-0.00023	0.00022	0.00031
56	-0.00052	0.00117	0.00129	56	-0.00031	0.00015	0.00034
57	-0.00055	0.00127	0.00138	57	-0.00040	0.00008	0.00040
58	-0.00039	0.00120	0.00127	58	-0.00044	0.00012	0.00046
59	-0.00042	0.00130	0.00136	59	-0.00048	0.00001	0.00048

2.4 Electrical and Photometric Measurements, with dimming	IES LM-79 2008 ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2
Noted: The noise test and data are not covered by A2LA accreditation	

Test date	2021-04-08		Test Ambient:	25±1° C
Dimmer Technology			Forward phase-cut	
Sample No.			Maximum Level	Minimum Level
JCE210313-DL-H1	Input: 120.0V / 60Hz	Light outout(Lumen)	807.1	43.92
		Percentage	91.29%	5.44%





Color Parameters:

Chromaticity Coordinate:x=0.4586 y=0.4083/u'=0.2627 v'=0.5263
CCT=2700K(Duv=-0.0008) Dominant WL:Ld =584.5nm WL:Lc = --nm Purity=60.2%
Ratio:R=26.3% G=71.7% B=2.0% Peak WL:Lp=622.7nm FWHM=153.2nm
Render Index:Ra=91.4 AvgR=88.6 TM30:Rf=88 Rg=102

R1 =92	R2 =94	R3 =95	R4 =92	R5 =91	R6 =93	R7 =92	
R8 =82	R9 =58	R10=86	R11=94	R12=83	R13=92	R14=96	R15=88

The luminaires [can] ~~[can not]~~ provide less than 20% of total light output with continuous dimmer.

Dimmer Technology	Peak Noise Reading (dBA)	Test Condition	Distance between the microphone and the UUT
LUTRON MACL-153M	14.2	Dimmer adjusted to lowest light output	< 1 m

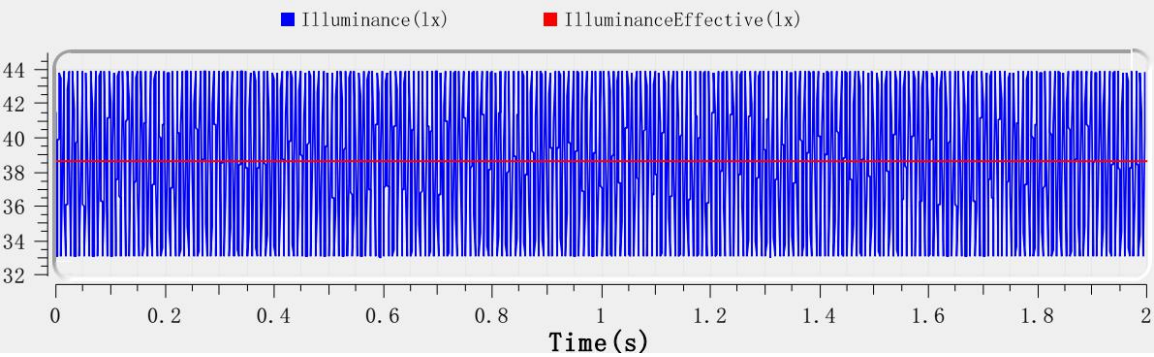
2.5 Flicker	**NEMA 77-2017** **ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2**

Dimming Technology	Forward phase-cut
Dimmer	LUTRON MACL-153M

Item	Short Term Flicker Indicator (Pst)	Stroboscopic Visibility Measure (SVM)
Maximum conduction	0.056	0.555
Intermediate conduction	0.144	0.835
Minimum conduction	0.705	0.446

2.6 Operating Frequency	ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2
Noted: This test and data are not covered by A2LA accreditation	

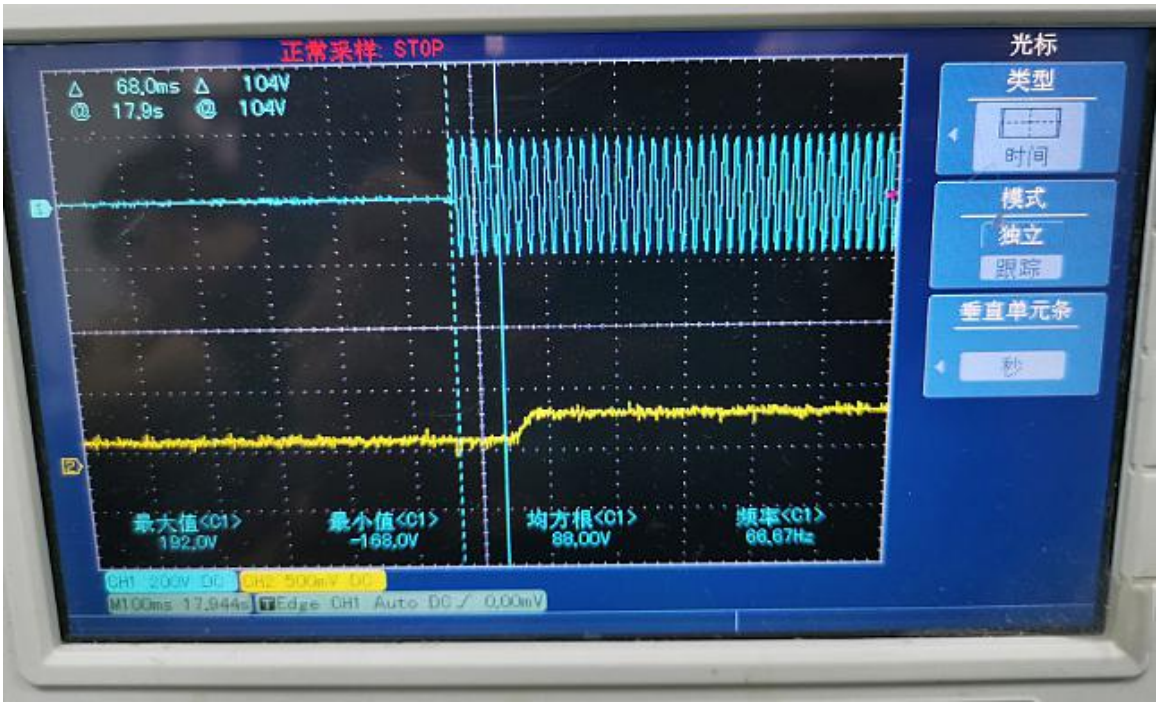
Test date	2021-04-08	Test Ambient:	25±1° C
Sample No.	Operating Frequency (Hz)		
JCE210313-DL-H1	120.006		



2.7 Starting Time	ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2

Test date	2021-04-08	Test Ambient:	25±1° C
Sample No.	**Start Time (ms)**		
JCE210313-DL-H1	68.0		

Graph (Start Time):



2.8 Transient Protection Test	ANSI/IEEE C62.41 ENERGY STAR® Program Requirements for Luminaires – Version 2.2

Test voltage: 120V,60Hz

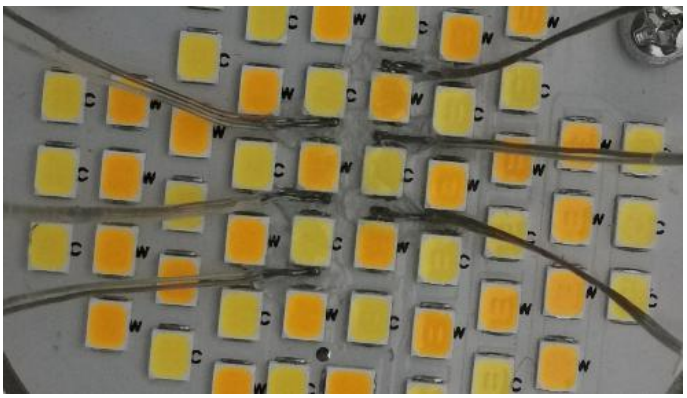
Test date	2021-04-08	Test Ambient	25±1° C
Sample No.		Transient Protection Test - Seven Strikes	
JCE210313-DL-H1		Survival	

2.9 In-Situ Temperature Measurement Test (ISTMT)	UL1598-2008, 3rd Edition

Test date	2021-04-08	Test Ambient	25±5° C
Input Vol./Frequency	120.0V / 60Hz	Output Current of Single LED(mA)	148.5

Sample No.	LED Package Model	Maximum Measured LED Ts Point Temperature (°C)	Maximum permitted Ts temperature for L70≥ 50,000 hrs (°C)
JCE210313-DL-H1	67-21S Series	98.2	105

In-Situ Picture - Ts:



2.10 Maximum Measured Ballast or Driver Case Temperature	UL1598-2008, 3rd Edition

Test date	2021-04-08	Test Ambient	25±5° C
Sample No.	**Maximum Measured Driver Case Temperature (°C)**	**Maximum Driver Case Temperature Limited (°C)**	
JCE210313-DL-H1	100.3	105	

In-Situ Picture - Ts:

2.11 Standby Power Consumption:	ENERGY STAR® Program Requirements Product Specification for Luminaires (Light Fixtures) - Version 2.2

Test date	2021-04-08	Test Ambient:	25±1° C
Model Number	SSLKT600/603-5CCT(2700K)	Stabilization Time (min)	60

Electrical Measurement – when the luminaires turned off:

Sample No.	Standby Power Consumption(W):
JCE210313-DL-H1	0

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3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-S-451	2 meter Integrating Sphere	Verified by D204 standard lamp	
ST-R-S-455	Spectral analysis system HAAS-1200	Verified by D204 standard lamp	
ST-R-S-452	Standard Lamp D204	2021-04-15	2022-04-14
ST-R-S-453	Power Meter for Integrating Sphere	2021-04-08	2022-04-06
ST-R-S-407	Goniophotometer system	Verified by S1530039 standard lamp	
ST-R-S-410	Standard Lamp S1530039	2021-04-15	2022-04-14
ST-R-S-408	Power Meter for Goniophotometer	2021-04-08	2022-04-06
ST-R-S-027	Digital Luxmeter	2021-04-08	2022-04-07
ST-R-S-016	Oscillograph	2021-04-08	2022-04-06
ST-R-S-017	Probe	2021-04-08	2022-04-07
ST-R-361	ZLB61012X	2020-08-19	2021-08-20
ST-R-414	LFA-3000	2020-12-18	2021-12-17

Uncertainty:
Photometric Measurement (Sphere):2.72%, k=2
Chromaticity Measurement(Sphere):43.60K, k=2
Photometric Measurement(Goniophotometer): 3.44%, k=2

******** END OF DATASHEET PACKAGE ********