



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xinhua Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

Energy Star Test Report

For

L-TECH CORPORATION

(Brand Name:N/A)

Shaogangtou District, Qiaotou Town, Dongguan City

Model name(s):

LRKT3574/3575-5CCT

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

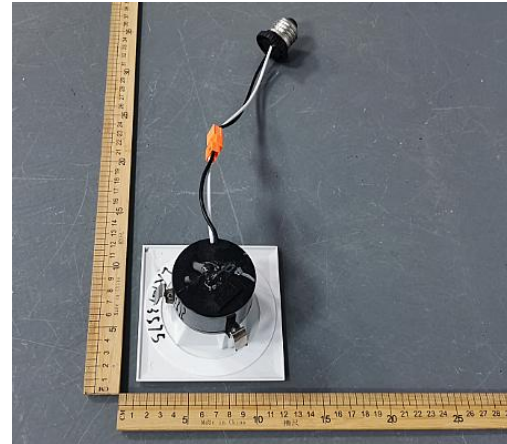
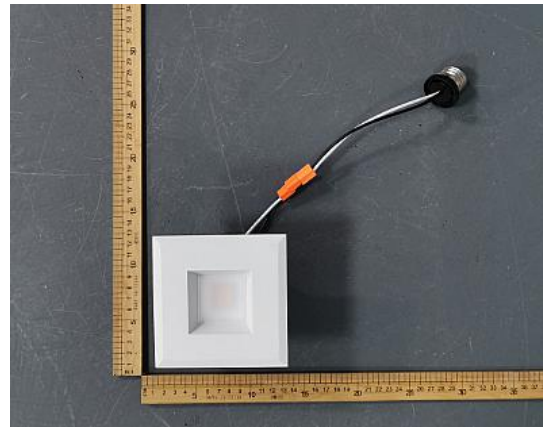
- Note: 1. The results contained in this report pertain only to the tested samples.
2. This report does not imply product certification, approval, or endorsement by A2LA or any agency of the Federal Government.
3. This report contains data that are not covered by the A2LA accreditation.



1.1 Product Information:		
Model Number	LRKT3574/3575-5CCT	
Remark	N/A	
Representative (Tested) Model	LRKT3574/3575-5CCT(2700K) LRKT3574/3575-5CCT(3000K) LRKT3574/3575-5CCT(3500K) LRKT3574/3575-5CCT(4000K) LRKT3574/3575-5CCT(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	Seoul Semiconductor Co. Ltd	
LED Model	SAWxC22B-xx	
Dimming	10%-100%	
Sample Number	JCE210313-DL-N1	
Date of Receipt	Apr.10,2021	
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	9.5W
Rated Initial Lamp Lumen	--
Declared CCT	2700K,3000K,3500K,4000K,5000K

1.3 Product Photos





1.4 Test Specifications:

Test item	<ol style="list-style-type: none"> 1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters 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	<ol style="list-style-type: none"> 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/IEEE C62.41.2:2002 IEEE Recommended Practice on Characterization of Surges in Low-Voltage(1000V and Less) AC Power Circuits 9. IEC 62301:2011 Household electrical appliances - Measurement of standby power 10. NEMA 77-2017 Standard for Temporal Light Artifacts: Test Methods and Guidance for Acceptance Criteria
Remark	<p>Below test and data are not covered by A2LA accreditation:</p> <ul style="list-style-type: none"> - 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 $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, 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.

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	8.473W	Pass
Luminous Efficacy	Downlight retrofits	≥60 lm/W	73.56lm/W	Pass
Luminaire Minimum Light Output	Downlight retrofits	≤ 4.5" aperture: 345 lumens > 4.5" aperture: 575 lumens	620.61lm	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	2716K Duv=-0.0006	Pass
Color Rendering Index (CRI)	Downlight retrofits	Ra ≥ 80 R9 >0	Ra =93.2 R9 =61	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)	91.7	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.	0.0015	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		Pass



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xihu Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

Certificate #4703.03

Light Source Life	Solid State	L70 lumen maintenance: ≥ 25,000 hours for indoor ≥ 35,000 hours for outdoor ≥ 50,000 hours for inseparable luminaires	<table border="1"> <tr> <td>50,000</td> </tr> <tr> <td>94.00%</td> </tr> <tr> <td>>54000</td> </tr> </table>	50,000	94.00%	>54000	Pass
50,000							
94.00%							
>54000							
Color Maintenance	Downlight retrofits	$\Delta u'v' \leq 0.007$	Max.0.0032 in LM-80 report*	Pass			
Source Start Time	Downlight retrofits	<750 ms	94.0ms	Pass			
Power Factor	Solid State	Total luminaire input power ≤ 5 watts: PF ≥ 0.5 Total luminaire input power > 5 watts: PF ≥ 0.7	0.954	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	120.000Hz	Pass			
Maximum Measured Driver Case Temperature	Solid State	shall not exceed the driver manufacturer's maximum recommended temperature during in situ operation. ≤ 105 °C	79.8°C	Pass			
Maximum In-Situ Source Temperature	Solid State	Maximum permitted Ts temperature for L70≥50,000 hrs ≤ 105°C	86.7°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			



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xihu Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

		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 “*”.



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

Test date	2021-04-12	Test Ambient:	25 ± 1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	LRKT3574/3575-5CCT(2700K)	Total Operating Time (min)	75

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-N1	120.1	60	0.074	8.437	0.954

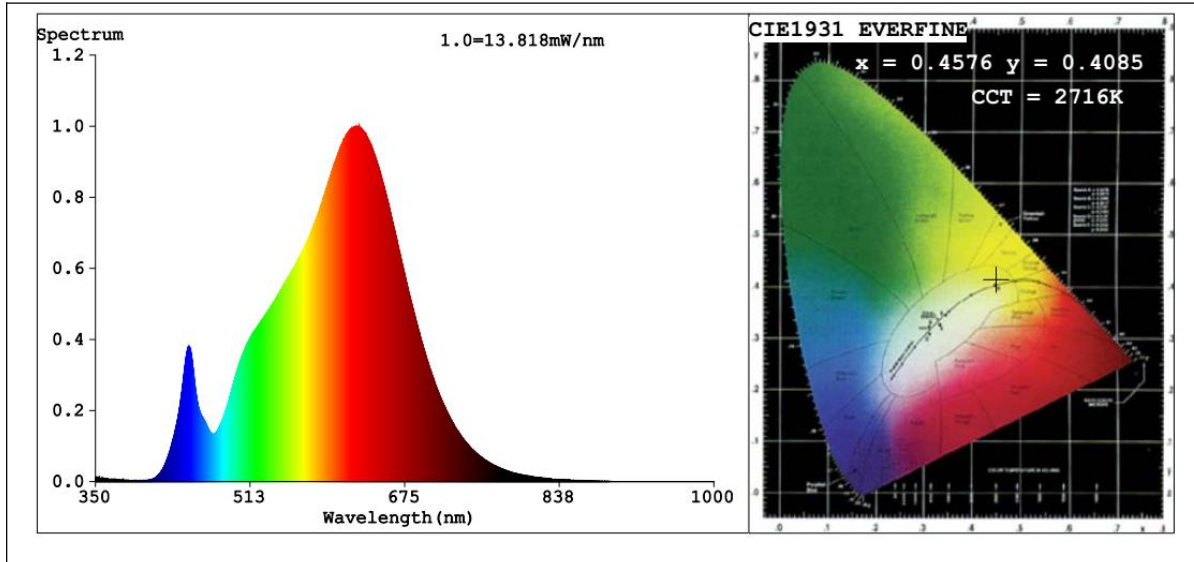
Sphere-Spectroradiometer Method(Self-absorption:1.0423):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	93.2
R9	61
CCT (K)	2716
Duv	-0.0006

Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	620.61
Luminous Efficacy (lm/W)	73.56
Beam Angle°	82.9
Center Beam Candle Power (cd)	335

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate: $x=0.4576$ $y=0.4085$ $u'=0.2619$ $v'=0.5262$

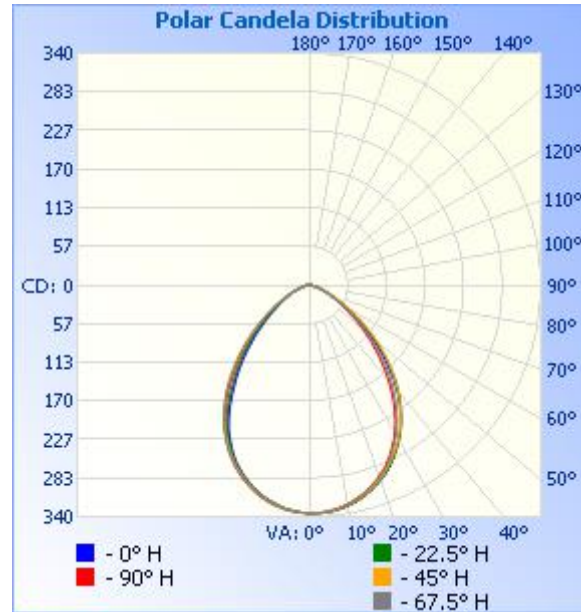
CCT=2716K (Duv=-0.0006) Dominant WL:Ld =584.3nm WL:Lc = --nm Purity=60.0%

Ratio:R=26.4% G=71.3% B=2.3% Peak WL:Lp=627.3nm FWHM=146.4nm

Render Index:Ra=93.2 AvgR=90.9 TM30:Rf=91 Rg=101

R1 =94	R2 =96	R3 =97	R4 =94	R5 =94	R6 =96	R7 =92	
R8 =83	R9 =61	R10=90	R11=96	R12=89	R13=94	R14=98	R15=89

Zonal Lumen Tabulation



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	247.0	39.8%
0-40	384.0	61.9%
0-60	569.2	91.7%
60-90	51.3	8.3%
70-100	17.1	2.8%
90-120	0.0	0%
0-90	620.5	100%
90-180	0.0	0%
0-180	620.5	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	31.5	5.1%	90-100	0.0	0%
10-20	88.3	14.2%	100-110	0.0	0%
20-30	127.2	20.5%	110-120	0.0	0%
30-40	136.9	22.1%	120-130	0.0	0%
40-50	113.7	18.3%	130-140	0.0	0%
50-60	71.5	11.5%	140-150	0.0	0%
60-70	34.2	5.5%	150-160	0.0	0%
70-80	13.4	2.2%	160-170	0.0	0%
80-90	3.7	0.6%	170-180	0.0	0%



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xinhua Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

Certificate #4703.03

	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	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335
1	335	335	335	335	335	334	334	334	334	334	334	334	334	335	335	335	335
2	335	335	335	334	334	334	334	334	334	334	334	334	334	334	335	335	335
3	335	335	334	334	334	333	333	333	333	333	333	333	334	334	334	335	335
4	334	334	334	334	333	333	332	332	332	332	332	333	333	333	334	334	334
5	334	334	333	333	333	332	331	331	331	331	331	332	332	333	333	334	334
6	333	333	333	332	332	331	330	330	329	330	330	331	331	332	332	333	333
7	332	332	332	331	330	330	329	328	328	328	329	329	330	330	331	332	332
8	331	331	331	330	329	328	327	327	326	326	327	328	328	329	330	331	331
9	330	330	329	328	328	327	325	325	324	324	325	326	327	328	329	330	330
10	329	328	328	327	326	325	324	323	322	322	323	324	325	326	327	328	329
11	327	327	326	325	324	323	321	321	320	320	321	322	323	324	325	326	327
12	325	325	324	323	322	321	319	318	317	318	319	320	320	322	323	325	325
13	323	323	322	320	320	318	317	315	315	315	316	317	318	320	321	323	323
14	321	321	320	318	317	316	314	313	312	312	313	315	315	317	319	320	321
15	319	319	317	315	315	313	311	310	309	309	311	312	313	314	317	318	319
16	316	316	315	313	312	310	308	307	306	306	308	309	310	312	314	316	316
17	314	314	312	310	309	307	305	303	302	303	304	306	306	309	311	313	314
18	311	311	309	307	306	304	302	300	299	299	301	302	303	305	308	310	311
19	308	308	306	304	302	300	298	296	295	295	297	299	300	302	305	307	308
20	305	305	303	300	299	297	294	292	291	292	294	295	296	298	301	304	305
21	301	301	299	297	295	293	290	288	287	287	290	291	292	295	298	300	301
22	298	298	296	293	291	289	286	284	283	283	285	287	288	291	294	297	298
23	294	294	292	289	287	285	282	279	278	279	281	283	284	287	290	293	294
24	290	290	288	285	283	281	278	275	272	274	277	279	279	282	286	289	290
25	286	286	284	280	278	276	273	270	267	269	272	274	274	278	282	285	286
26	282	282	280	276	273	271	269	264	261	264	267	269	269	273	278	281	282
27	277	277	275	271	268	266	264	259	255	258	263	264	264	268	273	276	277
28	272	273	271	265	262	261	259	253	249	252	258	259	258	263	269	272	272
29	267	268	266	260	257	255	254	247	244	246	253	253	253	257	264	267	267
30	262	263	262	255	251	250	249	241	236	240	248	248	247	252	259	262	262

Project No.: JCE210313 Report No.: JCE210313-DL-N

Report Format Number STP-QP019-103-A/1

<http://www.new-standard-test.com/>



Certificate #4703.03

ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

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

31	257	258	257	249	245	244	244	235	229	234	242	242	240	246	254	257	257
32	251	252	251	243	238	238	237	228	221	227	235	236	234	240	248	251	251
33	246	247	245	237	232	232	231	221	214	220	229	230	227	234	243	246	246
34	240	241	240	230	225	225	225	214	205	212	223	223	220	227	237	240	240
35	234	235	234	224	218	219	218	206	197	204	216	217	213	220	231	234	234
36	227	229	227	217	210	212	212	198	189	196	210	210	206	213	225	228	227
37	221	223	221	210	203	205	205	190	182	188	203	203	198	206	219	222	221
38	214	217	215	202	196	198	199	182	174	181	197	196	191	199	213	216	214
39	207	210	209	195	188	190	192	175	166	173	190	188	183	192	206	209	207
40	200	204	202	188	180	183	185	167	158	165	182	181	175	185	200	202	200
41	193	197	195	180	173	176	177	160	151	158	175	174	168	177	193	196	193
42	185	190	189	173	165	168	169	152	143	150	167	166	160	170	186	189	185
43	177	183	182	165	157	161	161	145	136	143	159	159	152	162	179	181	177
44	169	175	174	158	150	154	154	138	128	136	151	152	145	155	172	174	169
45	161	167	167	150	142	146	146	130	121	129	144	144	138	148	165	166	161
46	153	159	160	143	135	139	138	123	114	121	136	137	130	140	158	158	153
47	145	152	153	136	127	132	131	116	107	114	129	130	123	133	151	151	145
48	137	144	146	128	120	125	124	109	100	107	122	123	116	126	143	143	137
49	130	137	138	121	113	118	117	102	94	100	114	116	109	119	136	136	130
50	122	129	131	114	106	110	110	96	88	94	108	109	102	112	129	128	122
51	115	122	124	107	99	104	103	89	82	88	101	102	95	105	122	121	115
52	107	114	116	100	93	97	96	83	76	82	94	95	89	98	115	113	107
53	100	107	109	93	87	91	90	78	71	76	88	89	83	91	108	106	100
54	93	100	102	87	81	84	83	72	66	71	82	83	77	85	101	99	93
55	87	93	95	81	75	78	77	67	61	66	76	77	72	79	94	92	87
56	80	86	88	75	70	72	71	62	57	61	70	71	67	73	87	85	80
57	74	79	82	69	65	67	66	57	53	56	64	66	62	68	81	79	74
58	68	73	75	64	60	62	61	53	49	52	59	60	57	63	74	73	68
59	63	67	69	59	55	57	56	48	46	48	54	56	53	58	68	67	63
60	58	62	63	54	51	52	51	45	42	44	50	51	49	53	62	61	58
61	53	56	58	50	47	48	47	41	39	40	45	47	45	49	57	56	53
62	49	52	53	46	43	44	42	38	37	37	41	43	41	44	52	51	49



Certificate #4703.03

ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xinhua Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

63	44	47	48	42	40	40	39	35	34	34	38	39	38	41	47	46	44
64	40	42	43	38	36	36	35	32	31	32	34	35	35	37	42	42	40
65	36	38	39	35	33	33	32	30	29	29	31	32	32	34	38	38	36
66	33	34	35	32	30	30	29	27	27	27	28	29	29	31	34	34	33
67	30	31	31	29	28	27	26	25	24	25	26	27	26	28	31	31	30
68	27	28	28	26	25	25	24	23	22	23	23	24	24	25	27	28	27
69	24	25	25	24	22	23	22	21	20	21	21	22	21	23	25	25	24
70	22	23	22	21	20	20	20	19	18	19	19	20	19	21	22	22	22
71	19	20	20	19	18	18	18	17	16	17	17	18	17	19	20	20	19
72	16	18	18	17	16	16	16	15	14	15	16	16	15	16	18	18	16
73	15	16	16	15	14	14	15	14	13	13	14	14	14	15	16	16	15
74	14	14	15	14	13	13	13	13	12	12	13	13	13	13	14	14	14
75	13	13	13	12	12	12	12	12	11	12	12	12	12	12	13	13	13
76	12	12	12	11	11	11	11	11	10	11	11	11	11	11	12	12	12
77	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	11	11
78	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	10	10
79	9	9	9	8	8	8	8	8	8	8	8	8	8	8	9	9	9
80	8	8	8	8	7	7	7	7	7	7	7	7	7	7	8	8	8
81	7	7	7	7	6	6	6	6	6	6	6	6	6	7	7	7	7
82	6	6	6	6	6	6	5	5	5	5	5	6	5	6	6	6	6
83	5	5	5	5	5	5	5	5	4	4	4	5	5	5	5	5	5
84	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
85	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
86	3	3	3	3	3	3	2	2	2	2	2	2	2	2	3	3	3
87	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
88	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
89	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xinhua Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

Certificate #4703.03

95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

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

Certificate #4703.03

127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3,Building 3, No. 17,Yigongliu road,Loucun community building, Xihu Street,Guangming New district,Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

Certificate #4703.03

159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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

Test date	2021-04-12	Test Ambient:	25 ± 1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	LRKT3574/3575-5CCT(3000K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-N1	120.0	60	0.073	8.452	0.964

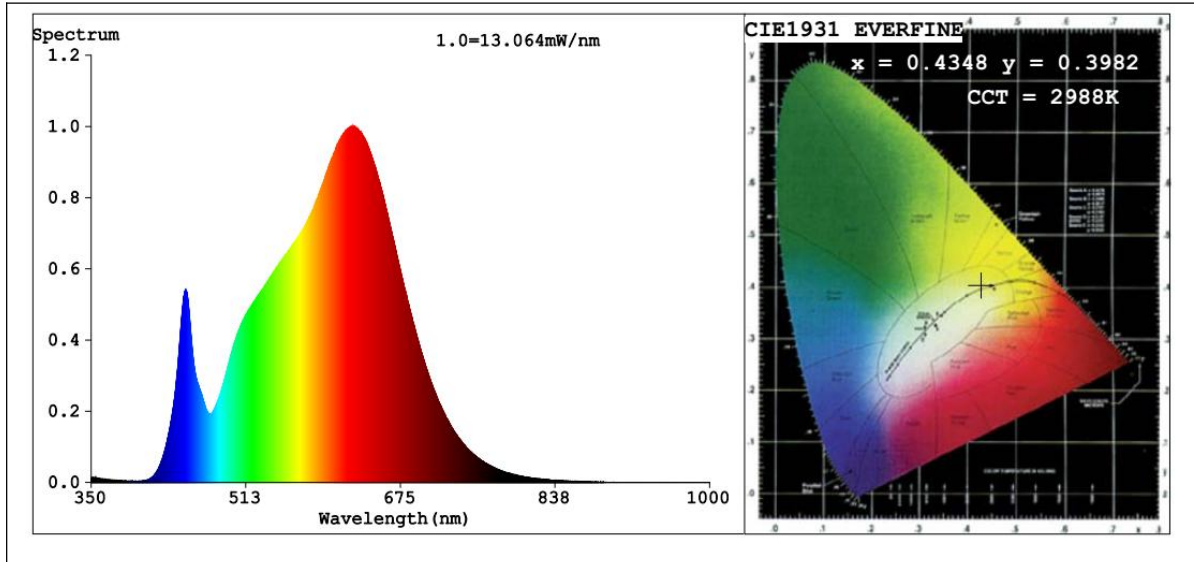
Sphere-Spectroradiometer Method(Self-absorption:1.0423):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	95.0
R9	72
CCT (K)	2988
Duv	-0.0021

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	626.0
Luminous Efficacy (lm/W)	74.07

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate: $x=0.4348$ $y=0.3982$ $u'=0.2517$ $v'=0.5188$
 CCT=2988K (Duv=-0.0021) Dominant WL:Ld =583.6nm WL:Lc = --nm Purity=50.0%
 Ratio:R=24.8% G=72.3% B=2.9% Peak WL:Lp=625.3nm FWHM=164.3nm
 Render Index:Ra=95.0 AvgR=93.1 TM30:Rf=92 Rg=102

R1 =96	R2 =97	R3 =97	R4 =96	R5 =96	R6 =97	R7 =94
R8 =88	R9 =72	R10=93	R11=96	R12=88	R13=97	R14=97 R15=93



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

Test date	2021-04-12	Test Ambient:	25 ± 1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	LRKT3574/3575-5CCT(3500K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-N1	120.0	60	0.073	8.464	0.965

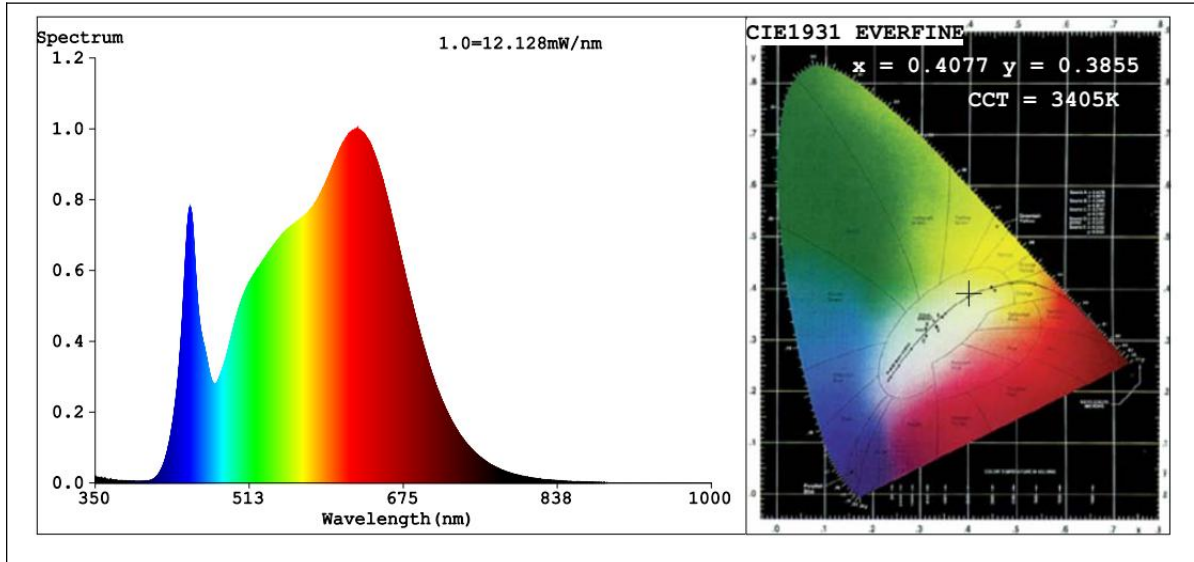
Sphere-Spectroradiometer Method(Self-absorption:1.0423):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	96.7
R9	84
CCT (K)	3405
Duv	-0.0028

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	632.7
Luminous Efficacy (lm/W)	74.75

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate: $x=0.4077$ $y=0.3855$ $u'=0.2394$ $v'=0.5094$

CCT=3405K (Duv=-0.0028) Dominant WL:Ld =582.5nm WL:Lc = --nm Purity=38.1%

Ratio:R=22.8% G=73.6% B=3.6% Peak WL:Lp=627.3nm FWHM=183.0nm

Render Index:Ra=96.7 AvgR=95.1 TM30:Rf=94 Rg=103

R1 =99	R2 =98	R3 =96	R4 =97	R5 =98	R6 =96	R7 =96
R8 =94	R9 =84	R10=95	R11=96	R12=85	R13=99	R14=97 R15=97



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

Test date	2021-04-12	Test Ambient:	25 ± 1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	LRKT3574/3575-5CCT(4000K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-N1	120.0	60	0.073	8.475	0.965

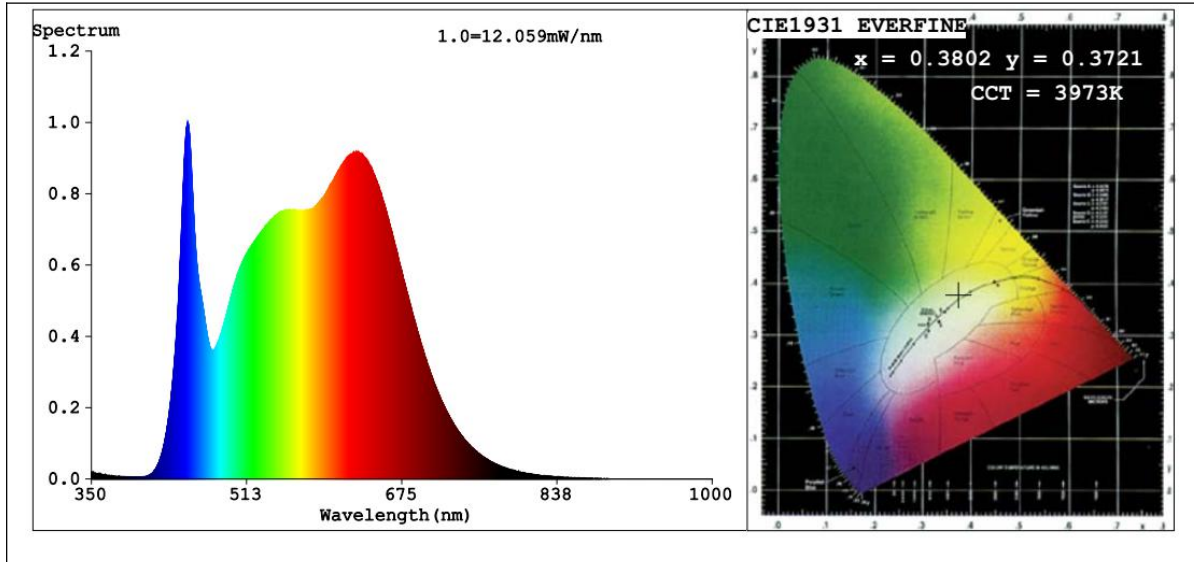
Sphere-Spectroradiometer Method(Self-absorption:1.0423):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	97.7
R9	95
CCT (K)	3973
Duv	-0.0021

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	637.8
Luminous Efficacy (lm/W)	75.26

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate: $x=0.3802$ $y=0.3721$ / $u'=0.2268$ $v'=0.4995$
 CCT=3973K (Duv=-0.0021) Dominant WL:Ld =580.4nm WL:Lc = --nm Purity=25.8%
 Ratio:R=20.7% G=74.9% B=4.3% Peak WL:Lp=450.9nm FWHM=24.9nm
 Render Index:Ra=97.7 AvgR=96.1 TM30:Rf=95 Rg=102

R1 =99	R2 =99	R3 =95	R4 =98	R5 =99	R6 =96	R7 =98	
R8 =98	R9 =95	R10=95	R11=96	R12=80	R13=100	R14=96	R15=99



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

Test date	2021-04-12	Test Ambient:	25 ± 1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	LRKT3574/3575-5CCT(5000K)	Total Operating Time (min)	61

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
JCE210313-DL-N1	120.0	60	0.073	8.471	0.965

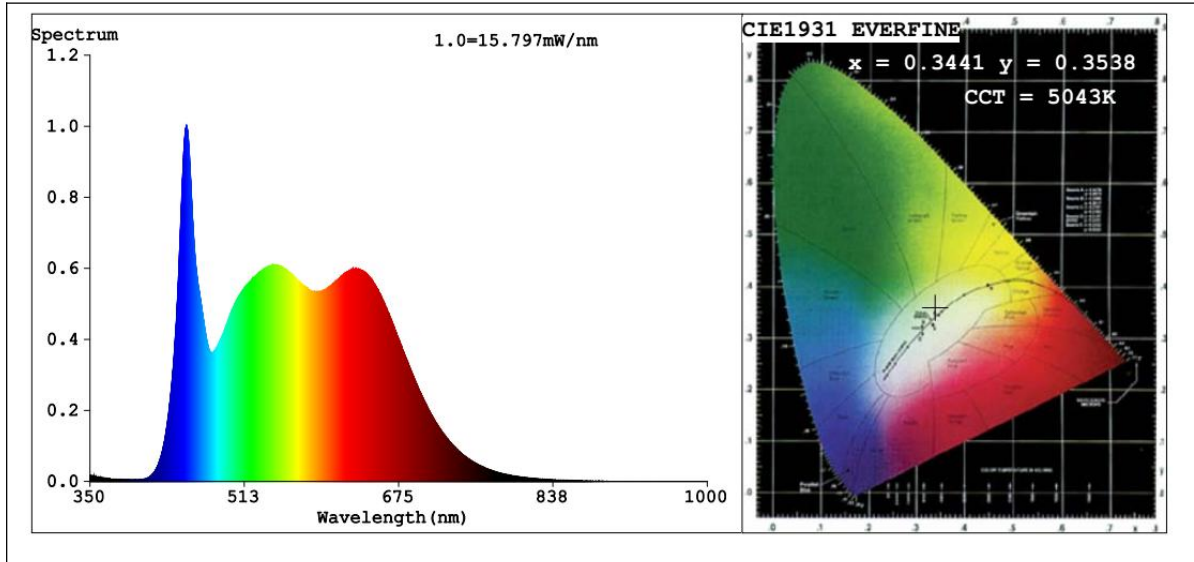
Sphere-Spectroradiometer Method(Self-absorption:1.0423):

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	97.2
R9	99
CCT (K)	5043
Duv	0.0015

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	638.6
Luminous Efficacy (lm/W)	75.39

Spectral Power Distribution and Chromaticity Diagram



Colorimetric Parameters

Color Parameters:

Chromaticity Coordinate: $x=0.3441$ $y=0.3538$ $u'=0.2099$ $v'=0.4856$
 CCT=5043K (Duv=0.0015) Dominant WL:Ld =570.6nm WL:Lc = --nm Purity=9.4%
 Ratio:R=17.8% G=76.8% B=5.5% Peak WL:Lp=451.6nm FWHM=25.3nm
 Render Index:Ra=97.2 AvgR=95.7 TM30:Rf=95 Rg=102

R1 =99	R2 =98	R3 =94	R4 =98	R5 =98	R6 =94	R7 =99
R8 =100	R9 =99	R10=93	R11=96	R12=77	R13=99	R14=96 R15=98



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	2021-04-12	Test Ambient	25.1°C
Sample No.	Maximum Δu'v'		
JCE210313-DL-N1	0.0015		

GammaC	CIE u'	CIE v'	du'v'	CIE u'	CIE v'	du'v'
-44	0.2617	0.5259	0.001	0.2612	0.5256	0.0015
-43	0.2619	0.5259	0.0008	0.2614	0.5257	0.0013
-42	0.262	0.5259	0.0007	0.2615	0.5257	0.0012
-41	0.262	0.526	0.0007	0.2617	0.5257	0.001
-40	0.262	0.526	0.0007	0.2617	0.5258	0.001
-39	0.2623	0.526	0.0004	0.2618	0.5258	0.0009
-38	0.2623	0.526	0.0004	0.2619	0.5258	0.0008
-37	0.2625	0.526	0.0003	0.2619	0.5258	0.0008
-36	0.2625	0.526	0.0003	0.262	0.5258	0.0007
-35	0.2626	0.5261	0.0003	0.262	0.5258	0.0007
-34	0.2626	0.526	0.0002	0.2622	0.5259	0.0005
-33	0.2626	0.5261	0.0003	0.2622	0.5259	0.0005
-32	0.2627	0.5261	0.0003	0.2623	0.5259	0.0004
-31	0.2627	0.5261	0.0003	0.2626	0.5259	0.0001
-30	0.2627	0.5261	0.0003	0.2626	0.5259	0.0001
-29	0.2627	0.5261	0.0003	0.2626	0.5259	0.0001
-28	0.2627	0.526	0.0002	0.2627	0.5259	0.0001
-27	0.2626	0.526	0.0002	0.2627	0.5259	0.0001
-26	0.2626	0.526	0.0002	0.2627	0.5259	0.0001
-25	0.2626	0.526	0.0002	0.2627	0.5259	0.0001
-24	0.2627	0.526	0.0002	0.2627	0.5259	0.0001
-23	0.2627	0.526	0.0002	0.2627	0.5259	0.0001
-22	0.2627	0.5259	0.0001	0.2627	0.5259	0.0001
-21	0.2627	0.5259	0.0001	0.2627	0.5259	0.0001
-20	0.2626	0.5259	0.0001	0.2627	0.5258	0
-19	0.2626	0.5259	0.0001	0.2627	0.5258	0
-18	0.2627	0.5259	0.0001	0.2626	0.5258	0.0001
-17	0.2626	0.5259	0.0001	0.2626	0.5258	0.0001
-16	0.2626	0.5258	0.0001	0.2626	0.5258	0.0001



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xihu Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

Fax: (+86)755-2319 2815

Certificate #4703.03

-15	0.2626	0.5258	0.0001	0.2626	0.5257	0.0001
-14	0.2627	0.5258	0	0.2627	0.5258	0
-13	0.2627	0.5258	0	0.2627	0.5258	0
-12	0.2627	0.5258	0	0.2627	0.5258	0
-11	0.2627	0.5258	0	0.2627	0.5257	0.0001
-10	0.2627	0.5258	0	0.2627	0.5257	0.0001
-9	0.2627	0.5258	0	0.2627	0.5257	0.0001
-8	0.2627	0.5257	0.0001	0.2627	0.5257	0.0001
-7	0.2627	0.5257	0.0001	0.2627	0.5257	0.0001
-6	0.2627	0.5257	0.0001	0.2627	0.5257	0.0001
-5	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
-4	0.2627	0.5257	0.0001	0.2626	0.5257	0.0001
-3	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
-2	0.2627	0.5257	0.0001	0.2626	0.5256	0.0002
-1	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
0	0.2627	0.5258	0	0.2627	0.5258	0
1	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
2	0.2626	0.5257	0.0001	0.2626	0.5256	0.0002
3	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
4	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
5	0.2627	0.5257	0.0001	0.2626	0.5257	0.0001
6	0.2626	0.5257	0.0001	0.2626	0.5257	0.0001
7	0.2627	0.5257	0.0001	0.2626	0.5257	0.0001
8	0.2627	0.5257	0.0001	0.2626	0.5257	0.0001
9	0.2627	0.5257	0.0001	0.2626	0.5257	0.0001
10	0.2627	0.5258	0	0.2626	0.5257	0.0001
11	0.2627	0.5258	0	0.2626	0.5257	0.0001
12	0.2627	0.5258	0	0.2626	0.5257	0.0001
13	0.2627	0.5258	0	0.2626	0.5258	0.0001
14	0.2627	0.5258	0	0.2627	0.5258	0
15	0.2627	0.5258	0	0.2627	0.5258	0
16	0.2627	0.5259	0.0001	0.2627	0.5258	0
17	0.2627	0.5259	0.0001	0.2627	0.5258	0
18	0.2628	0.5259	0.0001	0.2627	0.5258	0
19	0.2628	0.5259	0.0001	0.2627	0.5259	0.0001
20	0.2627	0.5259	0.0001	0.2627	0.5259	0.0001
21	0.2628	0.5259	0.0001	0.2627	0.5259	0.0001
22	0.2628	0.526	0.0002	0.2627	0.5259	0.0001
23	0.2628	0.526	0.0002	0.2628	0.526	0.0002
24	0.2628	0.526	0.0002	0.2628	0.526	0.0002
25	0.2626	0.526	0.0002	0.2627	0.526	0.0002

Project No.: JCE210313 Report No.: JCE210313-DL-N

Report Format Number STP-QP019-103-A/1

<http://www.new-standard-test.com/>



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

Floor 3, Building 3, No. 17, Yigongliu road, Loucun community building, Xihu Street, Guangming New district, Shenzhen 518107

Tel: (+86)755-2319 2554

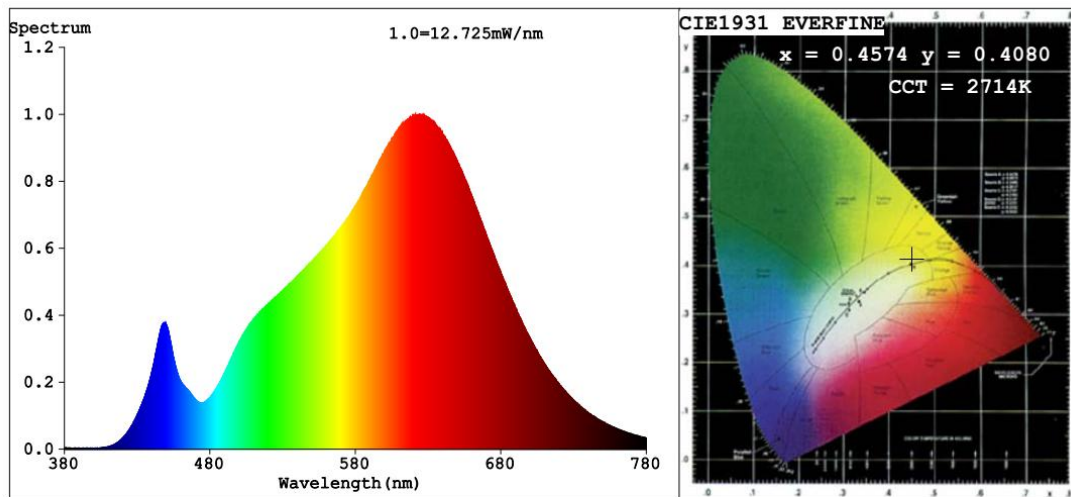
Fax: (+86)755-2319 2815

Certificate #4703.03

26	0.2626	0.526	0.0002	0.2627	0.526	0.0002
27	0.2626	0.526	0.0002	0.2627	0.526	0.0002
28	0.2626	0.526	0.0002	0.2628	0.5261	0.0003
29	0.2626	0.526	0.0002	0.2628	0.5261	0.0003
30	0.2626	0.526	0.0002	0.2628	0.5261	0.0003
31	0.2626	0.526	0.0002	0.2628	0.5261	0.0003
32	0.2626	0.526	0.0002	0.2627	0.5261	0.0003
33	0.2626	0.5261	0.0003	0.2627	0.5261	0.0003
34	0.2623	0.526	0.0004	0.2627	0.5261	0.0003
35	0.2623	0.526	0.0004	0.2626	0.5261	0.0003
36	0.2623	0.526	0.0004	0.2626	0.5261	0.0003
37	0.2622	0.526	0.0005	0.2626	0.5261	0.0003
38	0.2621	0.526	0.0006	0.2623	0.5261	0.0005
39	0.2619	0.5259	0.0008	0.2623	0.5261	0.0005
40	0.2618	0.5259	0.0009	0.2623	0.526	0.0004
41	0.2618	0.5259	0.0009	0.2622	0.526	0.0005
42	0.2614	0.5258	0.0013	0.2622	0.526	0.0005
43	0.2614	0.5258	0.0013	0.262	0.5259	0.0007
44	0.2613	0.5258	0.0014	0.2618	0.5259	0.0009

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	2021-04-12		Test Ambient:	25±1° C
Dimmer Technology			Forward phase-cut	
Sample No.		Maximum Level	Minimum Level	
JCE210313-DL-N1	Input: 120.0V / 60Hz	Light outout(Lumen)	579.7	19.15
		Percentage	93.40%	3.30%



Color Parameters:

Chromaticity Coordinate: x=0.4574 y=0.4080/u'=0.2621 v'=0.5260
CCT=2714K (Duv=-0.0008) Dominant WL:Ld =584.4nm WL:Lc = --nm Purity=59.8%
Ratio:R=26.4% G=71.2% B=2.3% Peak WL:Lp=624.0nm FWHM=145.9nm
Render Index:Ra=93.2 AvgR=90.8 TM30:Rf=91 Rg=101

R1 =94 R2 =96 R3 =98 R4 =94 R5 =94 R6 =96 R7 =92
R8 =82 R9 =61 R10=91 R11=96 R12=89 R13=94 R14=98 R15=89

The luminaires [can] ~~lean 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	13.8	Dimmer adjusted to lowest light output	< 1 m



ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

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

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

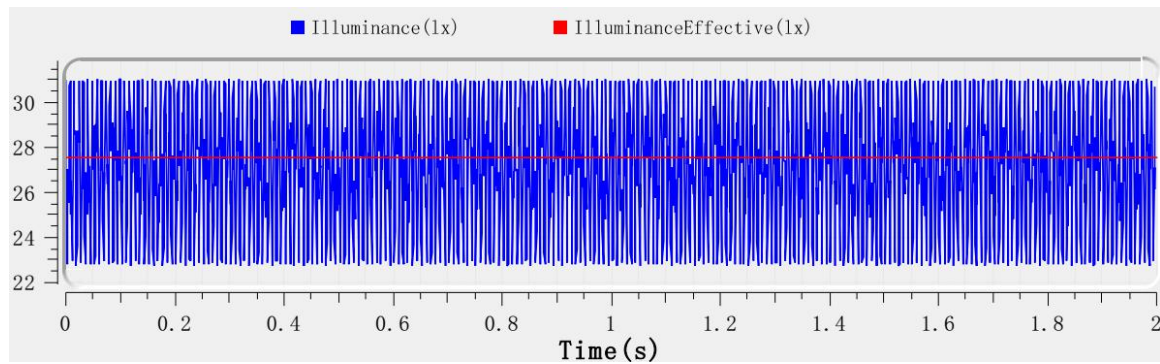
Dimming Technology	Forward phase-cut
Dimmer	LUTRON MACL-153M

Item	Short Term Flicker Indicator (Pst)	Stroboscopic Visibility Measure (SVM)
Maximum conduction	0.263	0.426
Intermediate conduction	0.234	0.721
Minimum conduction	1.189	0.354



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	

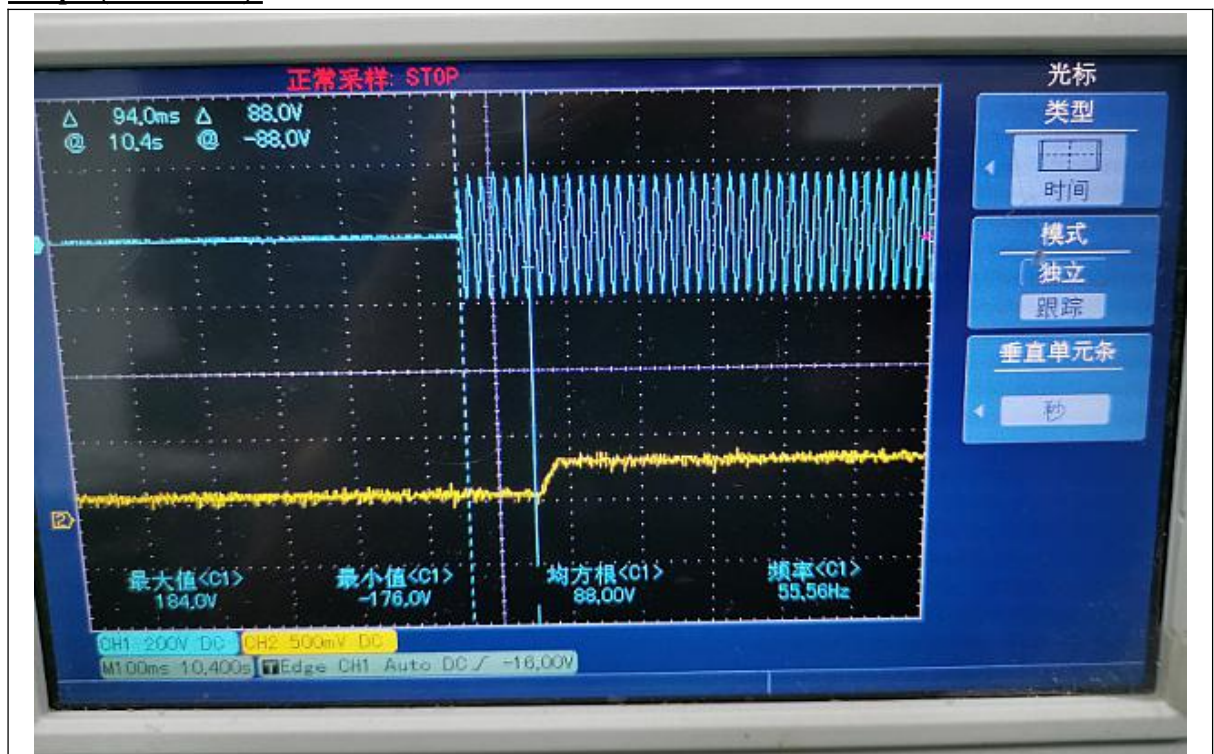
Test date	2021-04-12	Test Ambient:	25±1° C
Sample No.	Operating Frequency (Hz)		
JCE210313-DL-N1	120.000		



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

Test date	2021-04-12	Test Ambient:	25±1° C
Sample No.	Start Time (ms)		
JCE210313-DL-N1	94.0		

Graph (Start Time):





ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

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

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

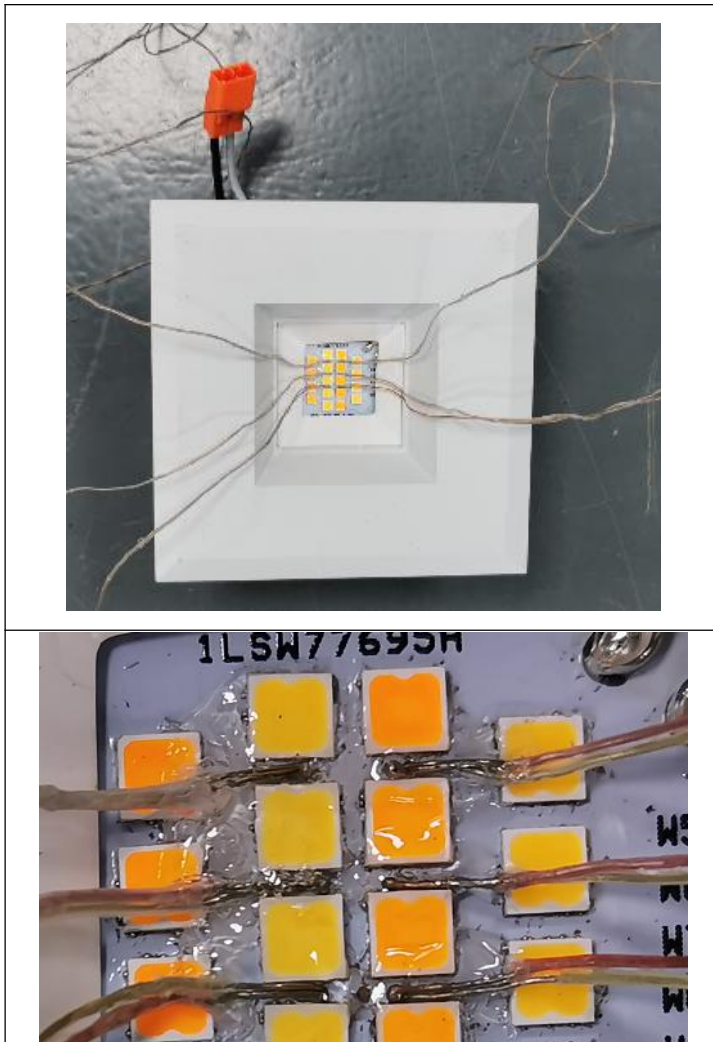
Test voltage: 120V,60Hz

Test date	2021-04-12	Test Ambient	25±1° C
Sample No.		Transient Protection Test - Seven Strikes	
JCE210313-DL-N1		Survival	

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

Test date	2021-04-12	Test Ambient	25±5° C
Input Vol./Frequency	120.0V / 60Hz	Output Current of Single LED(mA)	143.0
Sample No.	LED Package Model	Maximum Measured LED Ts Point Temperature (°C)	Maximum permitted Ts temperature for L70 ≥ 50,000 hrs (°C)
JCE210313-DL-N1	SAWxC22B-xx	86.7	105

In-Situ Picture - Ts:



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

Test date	2021-04-12	Test Ambient	25±5° C
Sample No.	Maximum Measured Driver Case Temperature (°C)	Maximum Driver Case Temperature Limited (°C)	
JCE210313-DL-N1	79.8	105	

In-Situ Picture - Ts:





ShenZhen Xin An Biao Technology Service Co. Ltd Testing Center

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

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

Test date	2021-04-12	Test Ambient:	25±1° C
Model Number	LRKT3574/3575-5CCT(2700 K)	Stabilization Time (min)	60

Electrical Measurement – when the luminaires turned off:

Sample No.	Standby Power Consumption(W):
JCE210313-DL-N1	0



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	2021-04-12	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	2021-04-12	2022-04-06
ST-R-S-027	Digital Luxmeter	2021-04-08	2022-04-07
ST-R-S-016	Oscillograph	2021-04-12	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 *****