

TEST REPORT CEC TITLE 20 (10 C.F.R. Section 430.23)	
Report reference No. : AOC250709003ER	
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Approved by : Robin Liu	<i>Robin. Liu</i>
Date of issue : 2025-07-10	
Contents : 12 pages	
Testing laboratory	
Name : Shenzhen AOCE Electronic Technology Service Co., Ltd	
Address : Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China	
Testing location : As above	
Client	
Name : Shenzhen Kangjiumei e-commerce Co., Ltd	
Address : 1802, Block A, Building 8, Xinyi YuCheng, Songbai Road, Henggang Street, Longgang District Shenzhen 518115 Guangdong CN	
Manufacturer	
Name : Shenzhen Kangjiumei e-commerce Co., Ltd	
Address : 1802, Block A, Building 8, Xinyi YuCheng, Songbai Road, Henggang Street, Longgang District Shenzhen 518115 Guangdong CN	
Test specification	
Standard : 10 C.F.R. Section 430.23 Appendix R to Subpart B of part 430	
Test procedure : 10 C.F.R. Section 430.23 Appendix R to Subpart B of part 430	
Non-standard test method : N/A	

Test item Description	1.2M LED Three proof Lamp
Trademark	Quickeep
Model and/or type reference.....	MOD-LED60W-2P
Test model.....	MOD-LED60W-2P
Rating(s)(V/Hz).....	110-120V~, 50/60Hz, 30W
Test case verdicts	
Test case does not apply to the test object :	N(N/A)
Test item does meet the requirement :	P(Pass)
Test item does not meet the requirement :	F(Fail)
Testing	
Date of receipt of test item	2024-10-14
Date(s) of performance of test.....	2024-10-14 to 2025-07-09
Test item particulars:	10 C.F.R. Section 430.23
Lamp type:	☒ Omni directional ☐ Directional ☐ Decorative
Model type(ANSI Standard Lamp Shape):	/
Base type(ANSI).....	/
Control gear	☒ Integrated ☐ External
Use of lamp.....	☒ Indoor ☐ Outdoor ☐ Industry
Envelope transparency:	
- Clear lamp	☐
- Non-clear lamp	☒
Dimmable lamp:	☐
Lamps Diameter(inches):	/
Lamp cap installed:	/
Declared data:	
Rated voltage(V):	110-120 V~
Rated lamp power(W):	30 W
Rated useful luminous flux.....(lm):	2550lm
Rated CCT(K):	6500K
Rated life time(h):	20000h
Forward current of the LED chip.....(mA):	--
LED Manufacturer	Shenzhen Kangjiumei e-commerce Co., Ltd
LED Model.....	MOD-LED60W-2P

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1. Test Method

1.1 Photometric and Electrical Measurement

Test Standard.....: IES LM-79-08:Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

Ambient Condition: 24.9°C

Stabilization time: 0.5h

Orientation(burning position) of SSL product during test: 5 base-up and 5 base-down

Test Method: 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 rated voltage and was stabilized before measurement. Lumen output, Lamp efficacy, Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm. Input power, Power factor, Voltage, Current, were calculated from the digital power meter.

1.2 Standby Power Measurement

Test Standard.....: IEC 62301-2011:Household electrical appliances-Measurement of standby power

Ambient Condition.....: 24.9°C

Stabilization time: 0.5h

Orientation(burning position) of SSL product during test: 5 base-up and 5 base-down

Test Method: Sections 5.3.4 Direct meter reading method. The sample was operated at rated voltage and was stabilized before measurement. The standby power were calculated from the digital power meter.

1.3 Luminous Flux and Color Maintenance Measurement

Test Standard.....: IES LM-84: Approved Method: Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires

Ambient Condition: 24.9°C / 60%RH

Orientation(burning position) of SSL product

during test: 5 base-up and 5 base-down

Test Method: Season the LED Lamp from 0 hours to 6000 hours.

The sample are operated steady state (no cycling) for a period of 6000 hours, checked the lumen flux and Chromaticity Shift every 1000 hours. The samples are inspected at regular intervals (24 hours) throughout the 6000 hours. The time and date of failure of each lamp is recorded. The actual elapsed time for each light package is in hour.

1.4 In-Situ Temperature Measurement Test (ISTMT)

Test Method: Maximum led source operating temperature measurements were taken on one test sample per model with a thermocouple and temperature meter. The SSL sample was allowed to reach thermal equilibrium for at least 3 hours before measurements were taken. Led source temperature was measured at the point as indicated by the included diagram in accordance with manufacturers declared hot spot location. The maximum temperature was recorded for the sample.

1.5 Start Test 、Flicker、Dimming

Ambient Condition.....: 24.9°C

Test Method.....: The sample was operated at 120 Volts AC, 60Hz.A photodetector is used to monitor the luminaire light output. Time、Flicker、Dimming shall be measured by a Flicker Photometer.

2. Test equipment list

Instrument	Equipment ID	Model	Calibration Date	Calibration Due Date
2m Integrating Sphere	SENSING	SL-300	AOC-S-126	2026-04-13
DC source	OYHS	OYHS-Z120V-50A	AOC-S-062	2026-04-13
Digital power meter	HENGHE	WT310E	AOC-S-012	2026-04-13
Standard Lamp	SENSING	240V/150W	AOC-S-143	2026-04-13
Variable frequency power supply	WOSEN	BP6005	AOC-S-129	2026-04-13
Oscilloscope	TEKTRONIX	MDO3012	AOC-S-028	2026-04-13

2.1 The standard to judge

State-regulated Light Emitting Diode Lamp		
Minimum luminous efficacy	After January1,2018:≥68 lumens/watt	84.6 lm/W
	After July1,2019:≥80 lumens/watt	
Lamp Power	Detetrmined using the appropriate test method	29.9W
Minimum combined efficacy seore (efficacy+2.3*Ra)	After January1,2018:≥282	298.7
	After July 1,2018:≥297	
Minimum lumen output	For candelabra base:≥150 lumens	/
	For other base:≥200 lumens	/
Minimum light distribution	Omnidirectional lamps (A-lamps): ENERGY STAR Lamps Version 2.0 requirements	/
	Decorative lamps (B, BA, C, CA, F or G): ENERGY STAR Lamps Version 1.1 requirements	/
Correlated color temperature(CCT)	The chromaticity and color consistency requirements are in Table 1 of Annex B of ANSI C78.377-2015	Rated CCT:6500K Complete ANSI C78.377-2015

Required Information	Permissible Answers	Lnformation/ Report value	Verdict
Minimum Dimming level	--	--	--

Dimming control compatible	Forward, Phase cut control, Reverse phase cut, Powerline carrier, Digital control, 0-10VDC, other (At least one type must be listed)	--	--
NEMA SSL 7A Compatible?	Yes/No If compatible with forward phase cut dimmer control, "Yes". If not, "No".	--	--
Flicker:			
See JA10 Table 10-1 for flicker data requirements and Permissible answers	<30% for frequencies of 200Hz or below, At 100% and 20% light output		P
Audible Noise:			
100% light Output :Audible Noise	≤24dBA	24	P
20% light Output :Audible Noise	≤24dBA	--	--

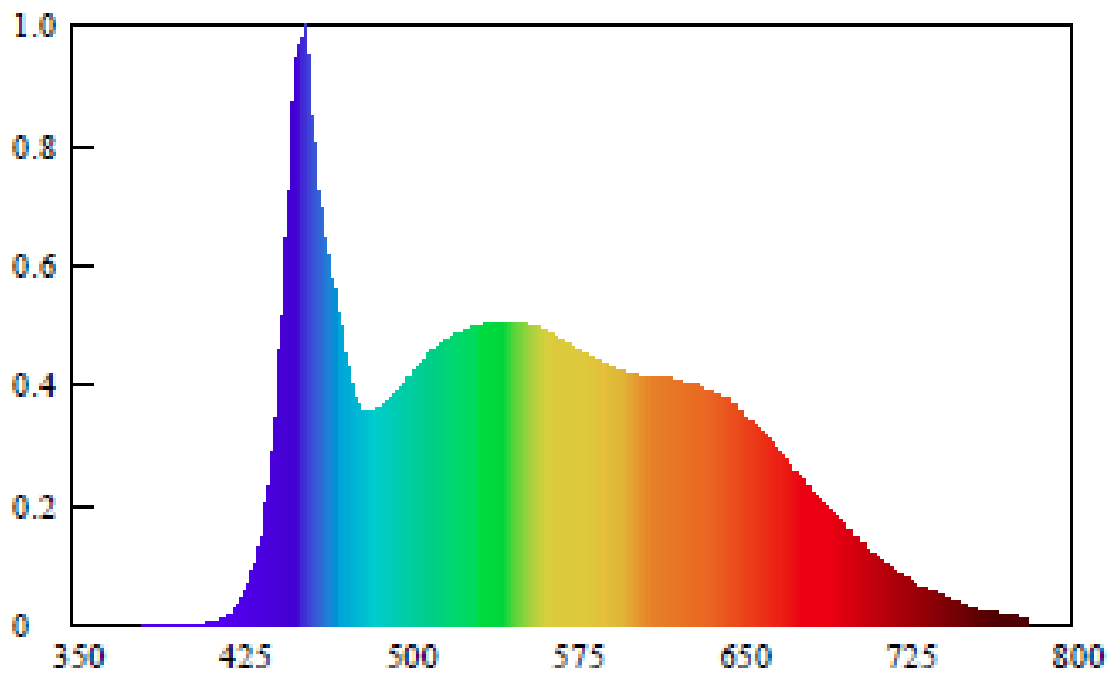
3. Test Data

3.1 Photometric Measurements at 25° C - Integrating Sphere

Sample No.	Base Orientation	Voltage (V)	Current (A)	Lamp Power (W)	Power Factor	Light Output (Lumens)	Revised Lumen/ W	CCT (K)	CRI
S1	base-up	120.0	0.257	29.9	0.971	2552.77	85.3	6339	93.4
S2	base-up	120.0	0.254	29.6	0.971	2633.59	89.1	6282	94.4
S3	base-up	120.1	0.258	30.7	0.992	2601.52	84.6	6365	93.4
S4	base-up	120.1	0.253	29.5	0.972	2598.95	88.0	6396	93.5
S5	base-up	120.2	0.252	30.0	0.992	2555.34	85.2	6295	94.4
S6	base-down	120.2	0.252	29.5	0.977	2562.52	86.7	6346	94.3
S7	base-down	120.2	0.253	29.6	0.973	2537.38	85.7	6384	93.4
S8	base-down	120.1	0.254	29.8	0.976	2560.47	86.0	6358	94.4
S9	base-down	120.0	0.254	30.1	0.989	2567.91	85.3	6314	93.4
S10	base-down	120.1	0.250	29.8	0.993	2557.65	85.9	6320	93.5
Average		120.1	0.253	29.9	0.981	2572.81	86.2	6340	93.8

3.2 Photometric Measurements at 25° C - Integrating Sphere

Sample No.	Base Orientation	R9	Duv	x (CIE1931)	y (CIE1931)	u' (CIE1976)	v' (CIE1976)	Standby Power
S1	base-up	78	0.00418	0.3172	0.3365	0.1982	0.4719	N/A
S2	base-up	77	0.00420	0.3194	0.3382	0.1996	0.4743	N/A
S3	base-up	77	0.00419	0.3182	0.3369	0.1988	0.4724	N/A
S4	base-up	78	0.00420	0.3198	0.3382	0.1998	0.4743	N/A
S5	base-up	78	0.00420	0.3178	0.3376	0.1986	0.4733	N/A
S6	base-down	78	0.00418	0.3162	0.3362	0.1912	0.4714	N/A
S7	base-down	77	0.00417	0.3175	0.3359	0.1984	0.4710	N/A
S8	base-down	79	0.00419	0.3188	0.3372	0.1992	0.4729	N/A
S9	base-down	78	0.00419	0.3191	0.3369	0.1994	0.4724	N/A
S10	base-down	78	0.00420	0.3185	0.3382	0.1990	0.4743	N/A
Average		78	0.00419	0.3183	0.3372	0.1982	0.4728	N/A

3.3 Spectral Data Over Visible Wavelengths of Sample:

3.4 Lumen maintenance and dimming

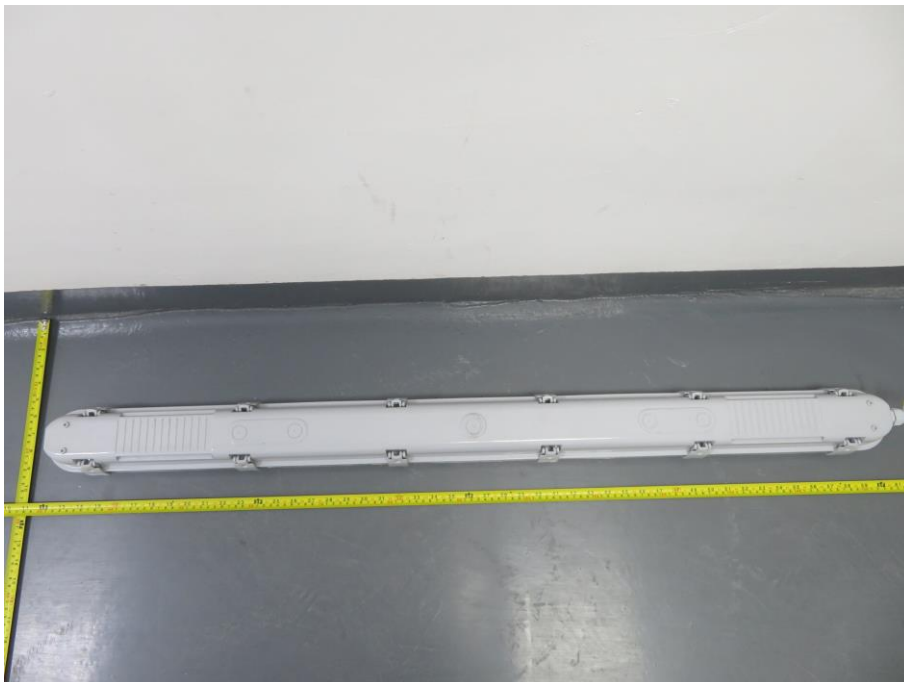
Sample No.	LM-80 and TM-21 Projected Time to L70 (hours)	6,000 hour survival rate (%)	Minimum dimming level(%)	Start Time (ms)	100% light output: Audible Noise (dBA)	20% light output: Audible Noise (dBA)
S1	20000	100	N/A	214.45	24	N/A
S2	20000	100	N/A	222.67	24	N/A
S3	20000	100	N/A	219.34	24	N/A
S4	20000	100	N/A	223.33	23	N/A
S5	20000	100	N/A	224.22	24	N/A
S6	20000	100	N/A	217.78	25	N/A
S7	20000	100	N/A	224.89	24	N/A
S8	20000	100	N/A	221.11	25	N/A
S9	20000	100	N/A	216.67	24	N/A
S10	20000	100	N/A	221.11	23	N/A
Average	20000	100	N/A	220.56	24	N/A

Sample No.	1,000 hour lumen maintenance (%)	2,000 hour lumen maintenance (%)	3,000 hour lumen maintenance (%)	4,000 hour lumen maintenance (%)	5,000 hour lumen maintenance (%)	6,000 hour lumen maintenance (%)
S1	99.96	98.58	97.43	97.37	96.97	95.13
S2	99.74	98.36	97.22	97.15	96.75	94.92
S3	100.07	98.69	97.54	97.48	97.08	95.24
S4	100.19	98.81	97.66	97.60	97.19	95.35
S5	99.68	98.31	97.17	97.10	96.70	94.87
S6	99.64	98.27	97.13	97.07	96.66	94.83
S7	99.44	98.07	96.93	96.87	96.47	94.64
S8	100.07	98.68	97.54	97.48	97.07	95.24
S9	100.11	98.73	97.58	97.52	97.12	95.28
S10	99.74	98.36	97.22	97.16	96.75	94.92
Average	99.86	98.48	97.34	97.28	96.88	95.04

Sample No.	R1	R2	R3	R4	R5	R6	R7	R8
S1	94	97	96	91	91	92	95	91
S2	95	98	96	93	93	93	95	92
S3	94	97	95	92	92	92	94	91
S4	94	97	95	92	92	92	94	92
S5	95	98	96	93	93	93	95	92
S6	95	98	96	93	93	93	95	91
S7	94	97	95	92	92	92	94	91
S8	95	98	96	93	93	93	95	92
S9	94	97	95	92	92	92	94	91
S10	94	97	95	92	92	92	94	92
Average	94	97	96	92	92	92	95	92

4. Photo of sample

ATTACHMENT 1(S)





-----END OF REPORT-----