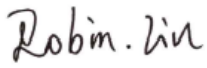


TEST REPORT CEC TITLE 20 (10 C.F.R. Section 430.23)	
Report reference No.	AOC250701014ER
Compiled by	Bruce Lin 
Approved by	Robin Liu 
Date of issue	2025-07-04
Contents	12 pages
Testing laboratory	
Name	Shenzhen AOCE Electronic Technology Service Co., Ltd
Address	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Testing location	As above
Client	
Name	Dongguan Demeiyin Electronic Technology Co., Ltd.
Address	Nanchengjiedao, dongguandadaonanchengduan428hao, huanyuhuijinzhongxin, 5dong, 2302shi, Dongguan, Guangdong, China
Manufacturer	
Name	Dongguan Demeiyin Electronic Technology Co., Ltd.
Address	Nanchengjiedao, dongguandadaonanchengduan428hao, huanyuhuijinzhongxin, 5dong, 2302shi, Dongguan, Guangdong, China
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	Flamingo Candle Warmer Light
Trademark	CODOGOY
Model and/or type reference.....	GU10
Test model.....	GU10
Rating(s)(V/Hz).....	110-120V~, 50/60Hz, 50W
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	2024-09-19
Date(s) of performance of test.....	2024-09-19 to 2025-07-01
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):	50 W
Rated useful luminous flux.....(lm):	2250lm
Rated CCT(K):	2700K
Rated life time(h):	20000h
Forward current of the LED chip.....(mA):	--
LED Manufacturer	Dongguan Demeiyin Electronic Technology Co., Ltd.
LED Model.....	GU10

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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	/
	After July1,2019:≥80 lumens/watt	
Lamp Power	Detetrmined using the appropriate test method	46.7W
Minimum combined efficacy seore (efficacy+2.3*Ra)	After January1,2018:≥282	/
	After July 1,2018:≥297	
Minimum lumen output	For candelabra base:≥150 lumens	/
	For other base:≥200 lumens	2250
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:2700K 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	--	--
Audible Noise:			
100% light Output :Audible Noise	≤24dBA	20	P
20% light Output :Audible Noise	≤24dBA	--	--

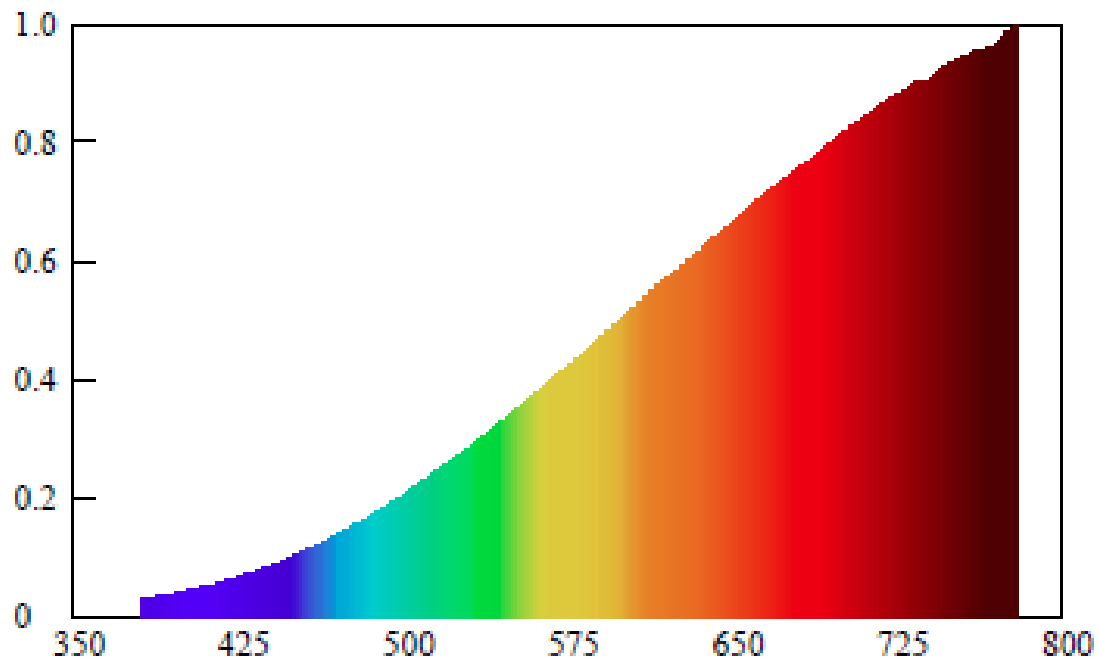
3. Test Data

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	120.1	0.394	47.4	1.0	2275.17	48.0	2684	99.3
S2	base-up	120.0	0.389	46.7	1.0	2347.19	50.2	2659	99.9
S3	base-up	120.1	0.396	47.6	1.0	2318.61	48.8	2694	99.3
S4	base-up	120.1	0.388	46.6	1.0	2316.33	49.7	2708	99.4
S5	base-up	120.1	0.386	46.4	1.0	2277.45	49.1	2665	99.9
S6	base-down	120.1	0.386	46.4	1.0	2283.86	49.3	2686	99.8
S7	base-down	120.0	0.388	46.6	1.0	2261.45	48.5	2702	99.3
S8	base-down	120.0	0.390	46.8	1.0	2282.03	48.8	2692	99.9
S9	base-down	120.0	0.389	46.7	1.0	2288.66	49.0	2673	99.3
S10	base-down	120.1	0.383	46.0	1.0	2279.51	49.5	2676	99.3
Average		120.1	0.389	46.7	1.0	2293.03	49.1	2684	99.4

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	97	0.00009	0.4630	0.4128	0.2642	0.5285	0.27
S2	base-up	98	0.00008	0.4662	0.4149	0.2660	0.5311	0.28
S3	base-up	98	0.00009	0.4644	0.4133	0.2650	0.5290	0.27
S4	base-up	97	0.00007	0.4667	0.4149	0.2663	0.5311	0.26
S5	base-up	98	0.00008	0.4639	0.4141	0.2647	0.5301	0.24
S6	base-down	98	0.00008	0.4616	0.4124	0.2549	0.5279	0.27
S7	base-down	97	0.00008	0.4634	0.4120	0.2644	0.5274	0.28
S8	base-down	98	0.00007	0.4653	0.4137	0.2655	0.5295	0.30
S9	base-down	99	0.00009	0.4658	0.4133	0.2658	0.5290	0.27
S10	base-down	98	0.00009	0.4648	0.4149	0.2652	0.5311	0.29
Average		98	0.00008	0.4645	0.4136	0.2642	0.5295	0.27

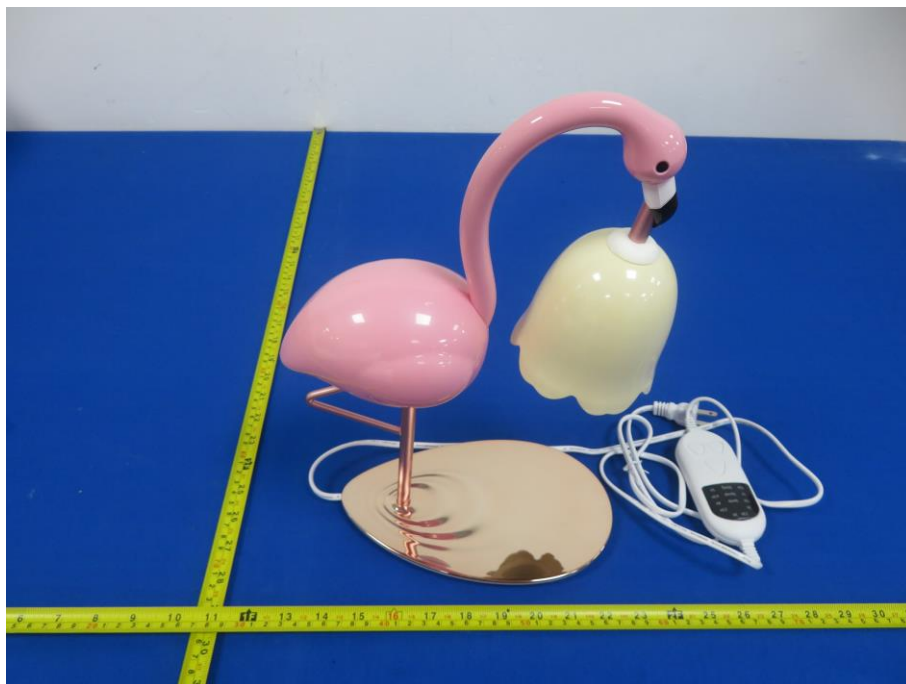
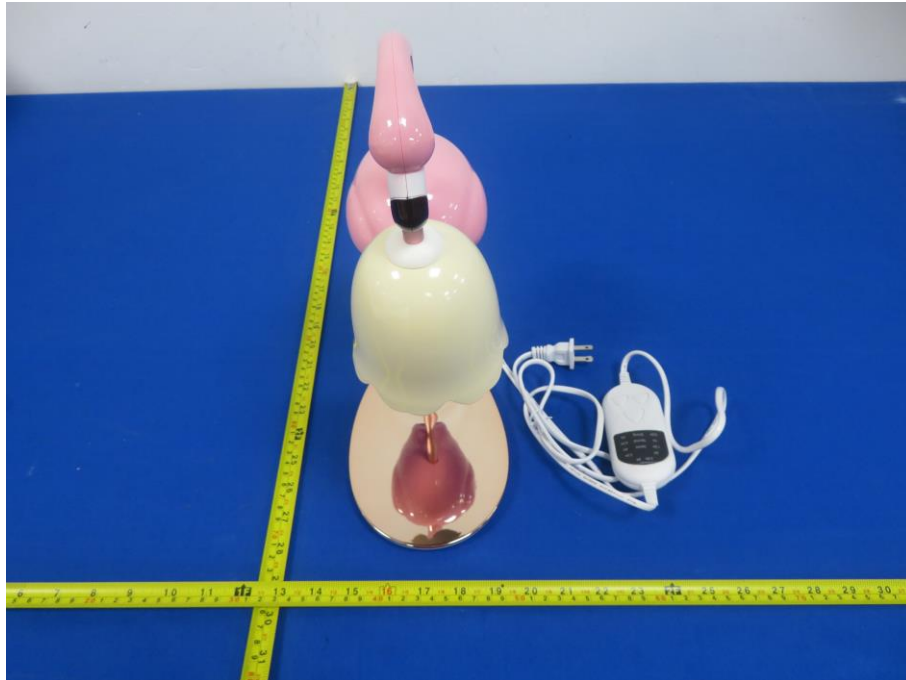
3.3 Spectral Data Over Visible Wavelengths of Sample:

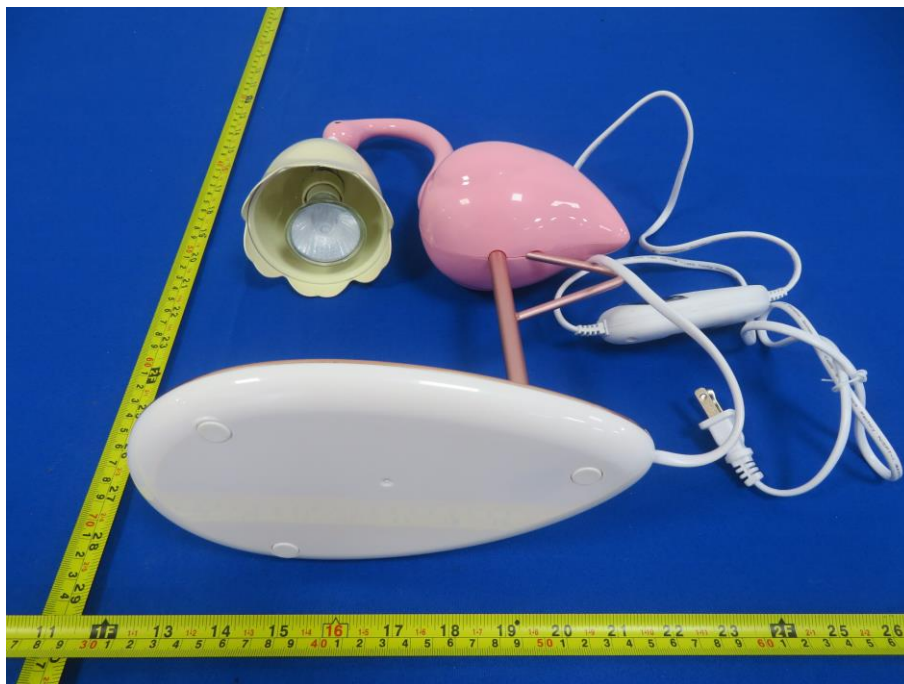
3.4 Lumen maintenance and dimming

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	N/A	N/A	N/A	N/A	19	N/A
S2	N/A	N/A	N/A	N/A	19	N/A
S3	N/A	N/A	N/A	N/A	19	N/A
S4	N/A	N/A	N/A	N/A	19	N/A
S5	N/A	N/A	N/A	N/A	19	N/A
S6	N/A	N/A	N/A	N/A	19	N/A
S7	N/A	N/A	N/A	N/A	19	N/A
S8	N/A	N/A	N/A	N/A	19	N/A
S9	N/A	N/A	N/A	N/A	19	N/A
S10	N/A	N/A	N/A	N/A	18	N/A
Average	N/A	N/A	N/A	N/A	19	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	N/A	N/A	N/A	N/A	N/A	N/A
S2	N/A	N/A	N/A	N/A	N/A	N/A
S3	N/A	N/A	N/A	N/A	N/A	N/A
S4	N/A	N/A	N/A	N/A	N/A	N/A
S5	N/A	N/A	N/A	N/A	N/A	N/A
S6	N/A	N/A	N/A	N/A	N/A	N/A
S7	N/A	N/A	N/A	N/A	N/A	N/A
S8	N/A	N/A	N/A	N/A	N/A	N/A
S9	N/A	N/A	N/A	N/A	N/A	N/A
S10	N/A	N/A	N/A	N/A	N/A	N/A
Average	N/A	N/A	N/A	N/A	N/A	N/A

Sample No.	R1	R2	R3	R4	R5	R6	R7	R8
S1	98	100	100	99	100	99	99	99
S2	99	100	100	100	100	100	100	100
S3	98	100	100	99	100	99	99	99
S4	98	100	100	99	100	99	99	100
S5	99	100	100	100	100	100	100	100
S6	99	100	100	100	100	100	100	99
S7	98	100	100	99	100	99	99	99
S8	99	100	100	100	100	100	100	100
S9	98	100	100	99	100	99	99	99
S10	98	100	100	99	100	99	99	100
Average	98	100	100	99	100	99	99	99

4. Photo of sample**ATTACHMENT 1(S)**

ATTACHMENT 1(S)

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