



TEST REPORT

CEC/DOE Test report- Ceiling Fan Light Kits

Report Reference No.: AOC250715013ER

Compiled by (print+ signature).....: Bruce Lin

Bruce Lin

Approved by (print+ signature).....: Robin Liu

Robin Liu

Lab Supervisor

Date of issue.....: 2025-07-21

Testing Laboratory.....: 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/address.....: Same as above

Applicant's name.....: Zhongshan Guangmo Lighting Technology Co., Ltd.

Address.....: 4th Floor, No. 15, Cao'er Hongye Road, Guzhen Town, Zhongshan City

Manufacturer name.....: Zhongshan Guangmo Lighting Technology Co., Ltd.

Address.....: 4th Floor, No. 15, Cao'er Hongye Road, Guzhen Town, Zhongshan City

Test Object.....: Ceiling Fans with Lights

Trade Mark.....: N/A

Model / Type reference.....: 1217

Rated voltage (V).....: 110-120 V~

Rated frequency (Hz).....: 50/60 Hz

Rated Power (W).....: 22W

Rated luminous (lm).....: 1870 lm

Rated color temperature (CCT).....: 3000-6500 K

Rated color tendering (CRI).....: 80

Rated life (h).....: 43800

Test specification:

Standard.....: DEPARTMENT OF ENERGY Office of Energy Efficiency and Renewable Energy 10 CFR Parts 429 and 430

Test procedure.....: Test report

Non-standard test method.....: N/A

Test Report Form No......: IECEE TRF No. CEC/DOE

Test Report Form(s) Originator.....: AOCE

Master TRF.....: 2024-03-28

Summary of Testing:	
Tests performed (name of test and test clause):	Testing location:
The sample(s) tested complies with the requirements of California Code of Regulations, Title 20, Sections 1601 through 1608. DEPARTMENT OF ENERGY Office of Energy Efficiency and Renewable Energy 10 CFR Parts 429 and 430 When determining the test conclusion. The Measurement Uncertainty of test has been considered.	Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Summary of Compliance with National Differences:	
N/A	
Copy of Marking Plate:	
N/A	

Type of light source:	
Product type.....	☒ Light source ☐ Separate control gears
Lighting technology used.....	☒ LED Lamp ☐ LED light engine ☐ Inseparable SSL ☐ Medium screw-based CFL ☐ Incandescent Lamp ☐ Pin-based sockets for fluorescent lamps
Non-directional or directional.....	☐ DLS (Directional) ☒ NDLS (Non-directional)
Use of lamp.....	☒ Indoor ☐ Outdoor ☐ Industry
Light source cap-type (or other electric interface).....	Connecting lead
Mains or non-mains.....	☒ MLS (mains light source) ☐ NMLS (non-mains light source)
Colour-tuneable light source.....	☐ Yes ☒ No
Anti-glare shield.....	☐ Yes ☒ No
Dimmable.....	☒ Yes ☐ No
Possible Test Case Verdicts:	
Test case does not apply to the test object.....	N/A (Not Applicable)
Test object does meet the requirement.....	P (Pass)
Test object does not meet the requirement.....	F (Fail)
Testing:	
Ambient temperature of tested	25.0°C
Test inputs.....	120 V~
Sample size for tested	2 pcs
Date of receipt of test item.....	2025-07-07
Date (s) of performance of tests.....	2025-07-07 to 2025-07-16
General Remarks:	
Note: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.	
Note:	
N/A	

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.....:	25.0°C
Stabilization time.....:	0.5h
Orientation (burning position) of SSL product during test.....:	2 base-up
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. 4 π geometry was used during measurement. The sample was self-absorption correction used for integrating sphere, then operated at rated voltage and was stabilized before measurement. 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.
1.2 Standby Power Measurement	
Test Standard.....:	IEC 62301-2011: Household electrical appliances-Measurement of standby power
Ambient Condition.....:	25.0°C
Stabilization time.....:	0.5h
Orientation (burning position) of SSL product during test.....:	2 base-up
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.

2. Summary of Result

Items	Requirement	Test Result	Verdict
Minimum required efficacy(lm/W)	Lumens $1 < 120$: 50	N/A	N/A
	Lumens $1 \geq 120$: (74.0-29.42 x 0.9983 ¹⁸⁷⁰)=72.78	93.8	Pass
Note: /			

3. Test data

Initial Photometric and Electrical Test Data

Sample No.	Base	Voltage	Current	Power	Power Factor	Light Output	Efficiency
L1	VBU	120.1	0.360	20.2	0.468	1896.3	93.88
L2	VBD	120.0	0.361	20.6	0.475	1872.9	90.91
Average	/	/	/	20.4	0.472	1884.6	92.40
UCL (0.99)	/	/	/	/	/	/	/
LCL (0.99)	/	/	/	/	/	/	92.4
Factor	/	/	/	/	/	/	0.985
CL/Factor	/	/	/	/	/	/	93.8
Represented value	/	/	/	/	/	/	93.8

4. Test Equipment List

Equipment Name	Manufacturer	Model No.	Reference No.	Calibration Due Date
2m Integrating Sphere	SENSING	SL-300	AOC-S-126	2026-04-13
Horizontal Distribution Photometer	SENSING	GMS1800D	AOC-S-124	2026-04-13
Standard Lamp	SENSING	240V/150W	AOC-S-151	2025-08-01
Digital power meter	HENGHE	WT310E	AOC-S-012	2026-04-13
Digital power meter	SENSING	UI2008	AOC-S-123	2026-04-13
Digital power meter	SENSING	UI2021	AOC-S-123	2026-04-13
DC source	OYHS	OYHS-Z120V-50A	AOC-S-062	2026-04-13
Variable frequency power supply	WOSEN	BP6005	AOC-S-129	2026-04-13
Variable frequency power supply	AIPUSI	KDF-500	AOC-S-130	2026-04-13
Oscilloscope	TEKTRONIX	MDO3012	AOC-S-028	2026-04-13

5. Product Photo

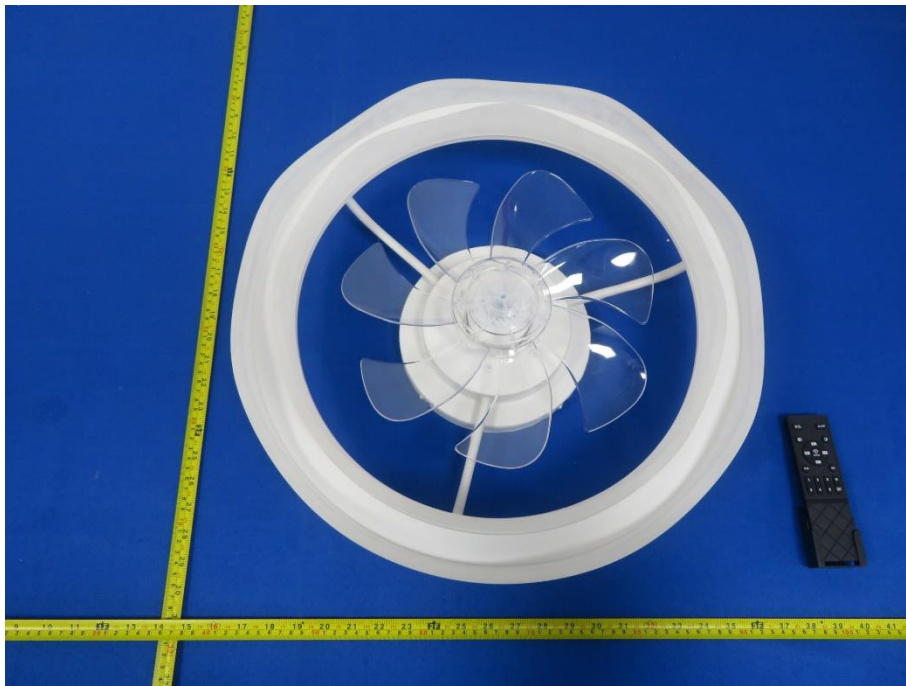


Fig. 1

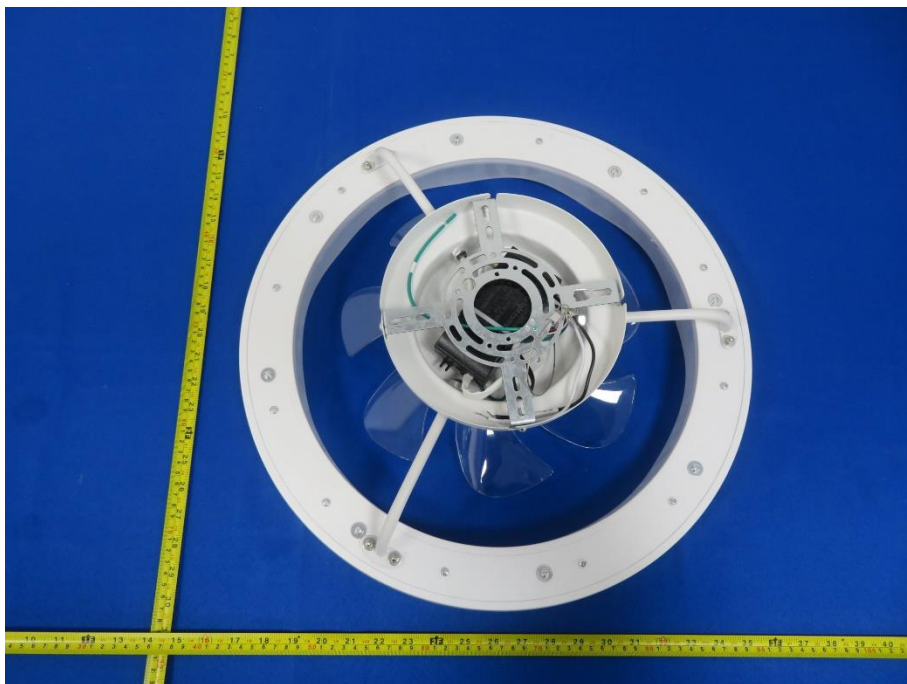


Fig. 2

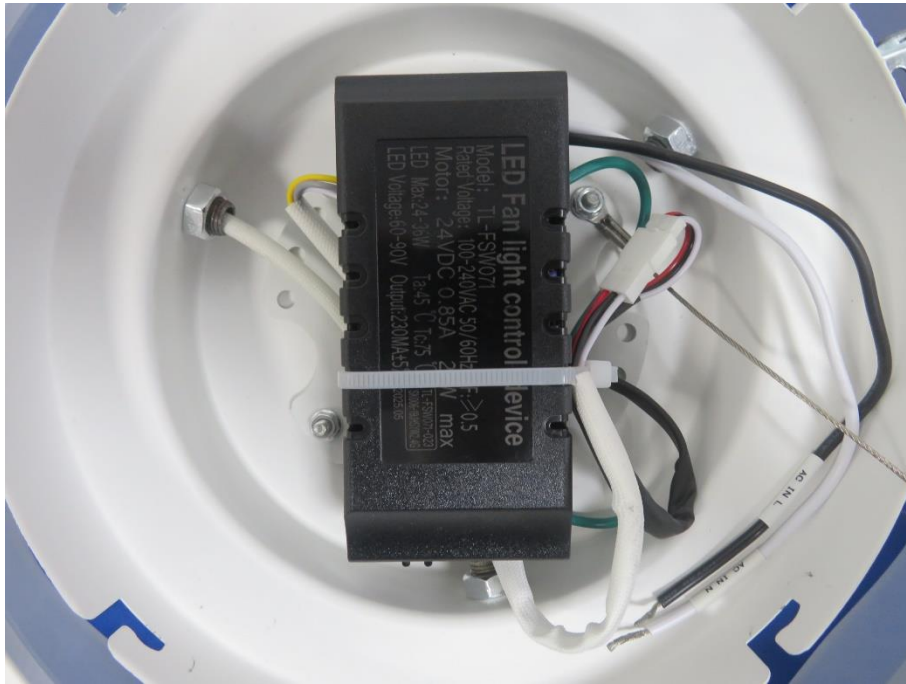


Fig. 3

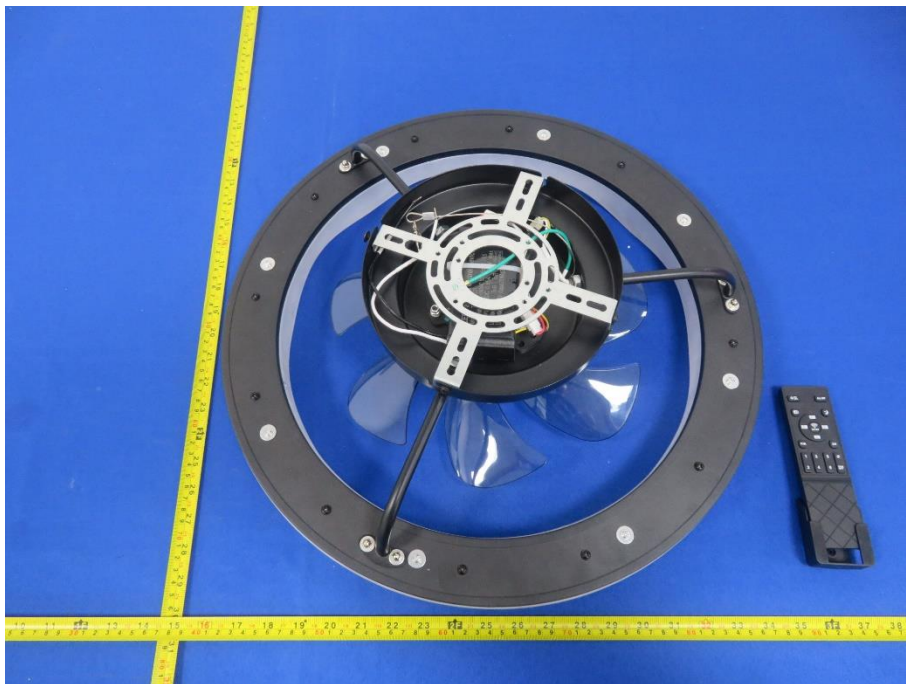


Fig. 4

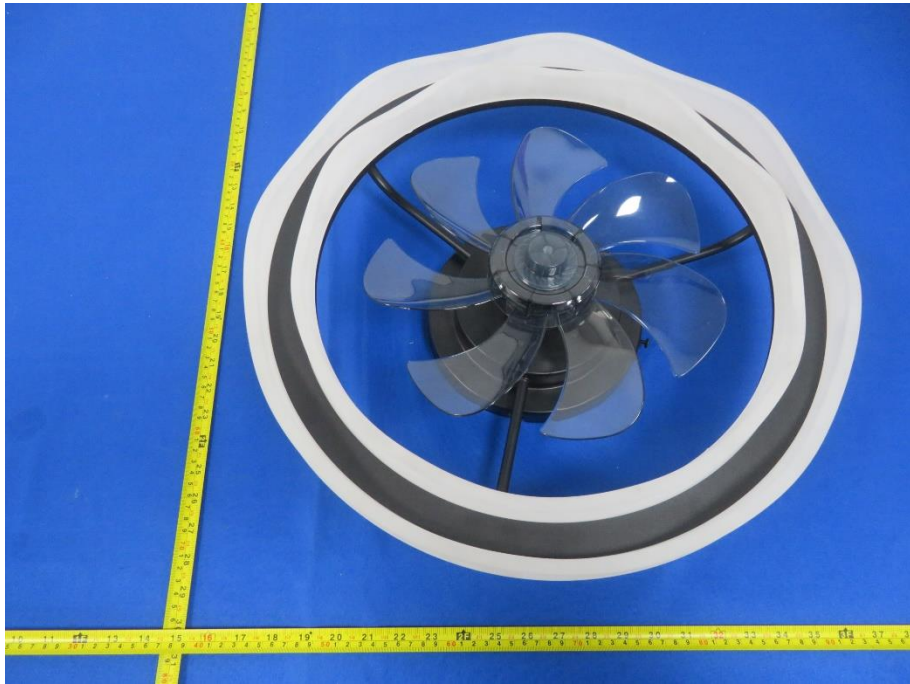


Fig. 5



Fig. 6

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