Test Report issued under the responsibility of:

TEST REPORT

CEC/DOE Test report- Ceiling Fan Light Kits

Report Reference No. ……..……..:	AOC250520007ER-R1
Compiled by (print+ signature)…….:	Bruce Lin
Approved by (print+ signature)…….:	Robin Liu
Date of issue……...:	2025-05-26

Bruce
Robin

Shenzhen AOCE Electronic Technology Service Co., Ltd. APPROVED

Lab Supervisor

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 Daorui Lighting & Electronic Limited
Address……:	Unit 5 2/F Building 2, No.5, The 3rd of Yihui Road, Henglan Town, Zhongshan City, Guangdong Province, China
Manufacturer name……...:	Zhongshan Daorui Lighting & Electronic Limited
Address……:	Unit 5 2/F Building 2, No.5, The 3rd of Yihui Road, Henglan Town, Zhongshan City, Guangdong Province, China
Test Object……...:	Ceiling fan light
Trade Mark……...:	N/A
Model / Type reference……:	DM33021, DM33015, DM33015X, DS20020, DS20016, DS20019, DS20005, DS2005X, DM33026, DM30017, DM33010, DS20055, DS20002, DS20062, DM30013, DS20015, DS20039, DS20008, DM33018, DS20001, DM33031, DM33031X, DM30032, DS20001 (Only the fan part and the model name are different)
Rated voltage (V)……..……:	100-240 V~
Rated frequency (Hz)…..…..……:	50/60 Hz
Rated Power (W).....:	22W
Rated luminous (lm).....:	1430 lm
Rated color temperature (CCT).....:	6000 K
Rated color tendering (CRI).....:	80
Rated life (h).....:	30000
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 be enconsidered.	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……..…..:	2025-05-07
Date (s) of performance of tests……:	2025-05-07 to 2025-05-20

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:

1. The test data in this report are all from the light source.

This report was based on the original report AOC250520007ER, only following items are revised, when this report issued, the original report will be withdraw:

1). The rated power was filled in incorrectly. It has now been corrected.

2) Update the model.

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. 4π 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)	Lumens1<120: 50	N/A	N/A
	Lumens1≥120: $(74.0-29.42 \times 0.9983^{1430})=71.42$	74.1	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	0.186	22.2	0.993	1522.0	68.56
L2	VBD	120	0.186	22.1	0.991	1518.7	68.72
Average	/	/	/	22.2	0.992	1520.4	68.64
UCL (0.99)	/	/	/	/	/	/	/
LCL (0.99)	/	/	/	/	/	/	72.33
Factor	/	/	/	/	/	/	0.976
CL/Factor	/	/	/	/	/	/	74.1
Represented value	/	/	/	/	/	/	74.1

4. Test Equipment List

Equipment Name	Manufacturer	Model No.	Reference No.	Calibration Due Date
2m Integating 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 (Model name: DM33021)

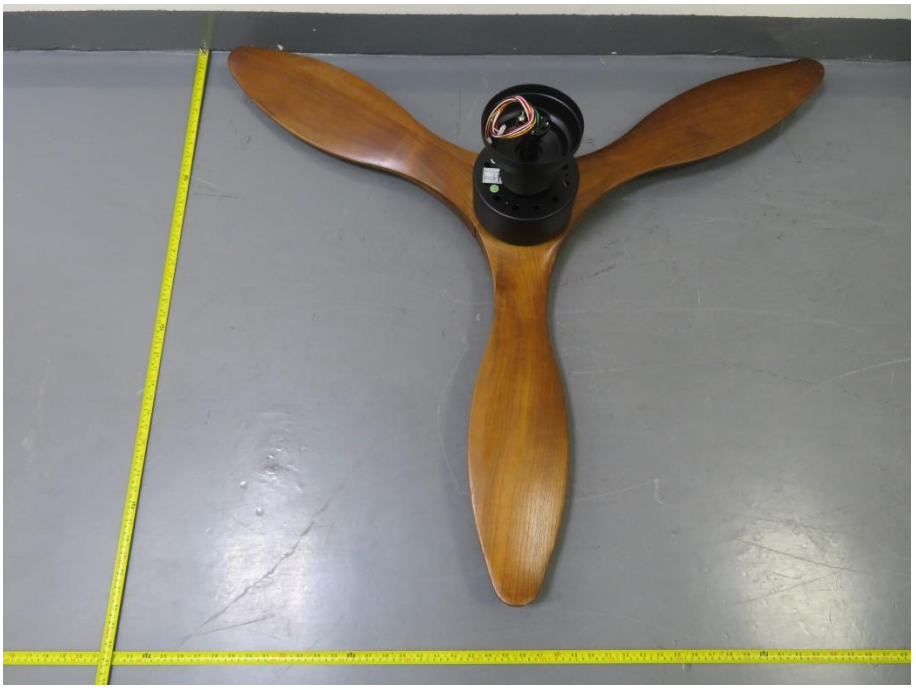

Fig. 2 (Model name: DM33021)

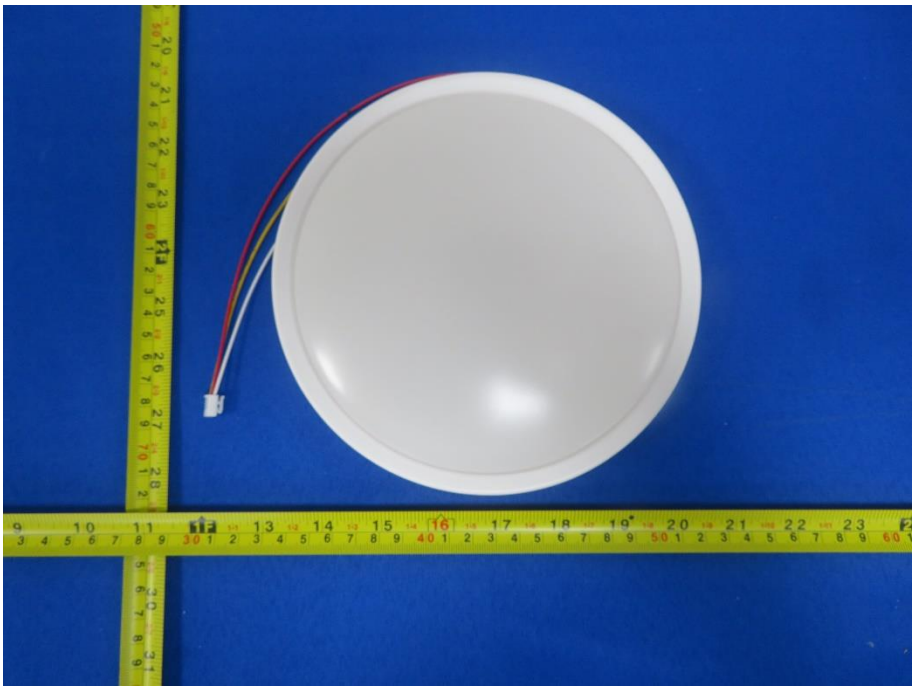

Fig. 3 (Light source)

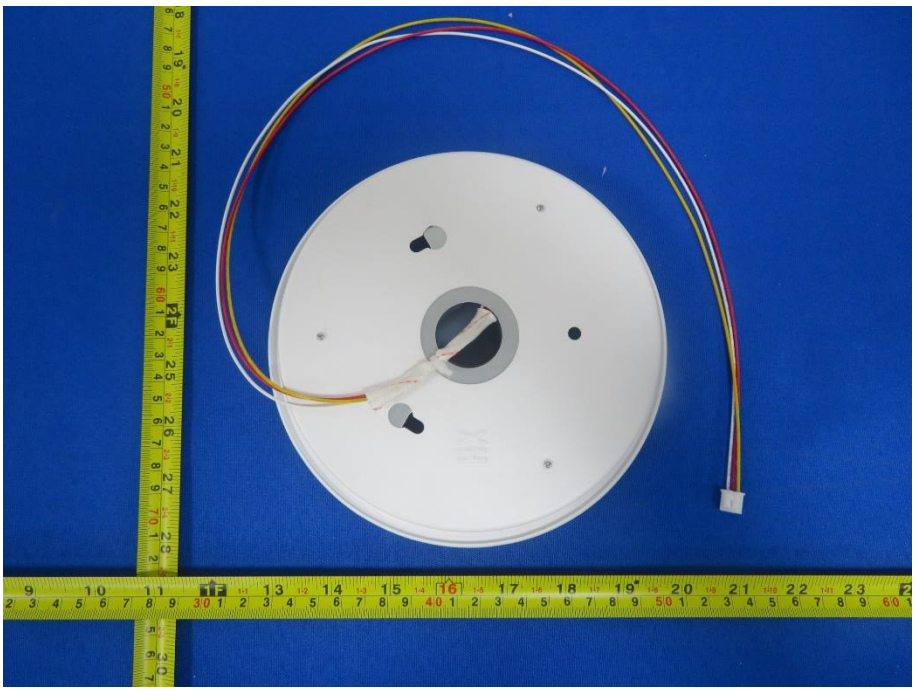

Fig. 4 (Light source)

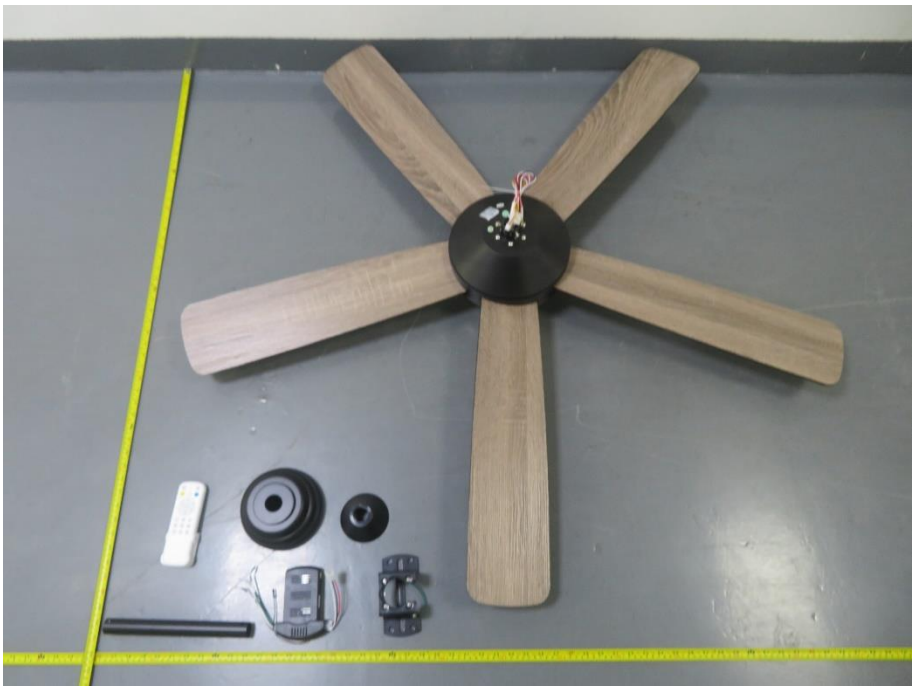

Fig. 5 (Model name: DM30017)

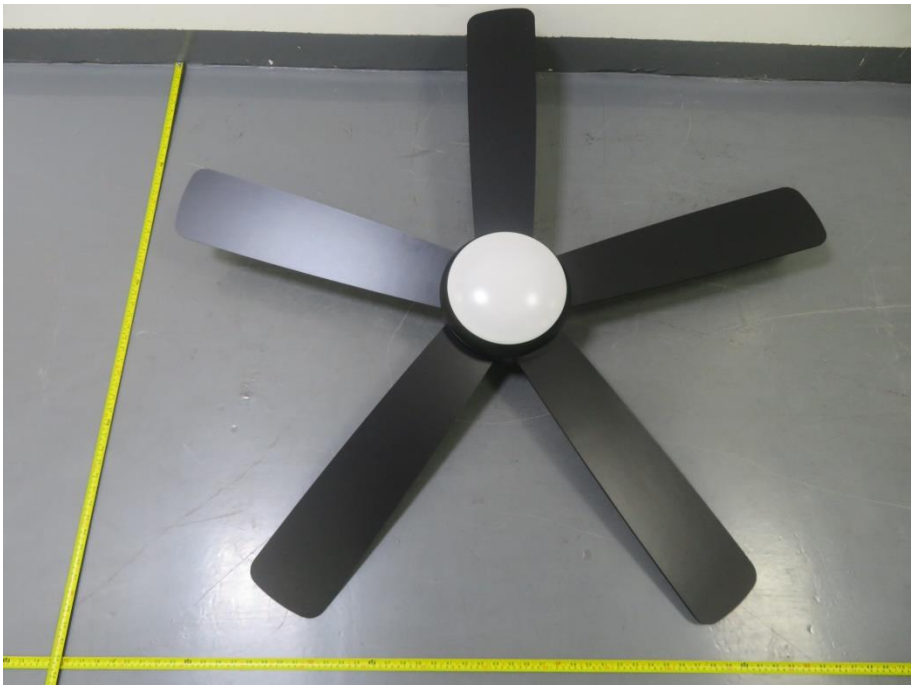

Fig. 6 (Model name: DM33021)

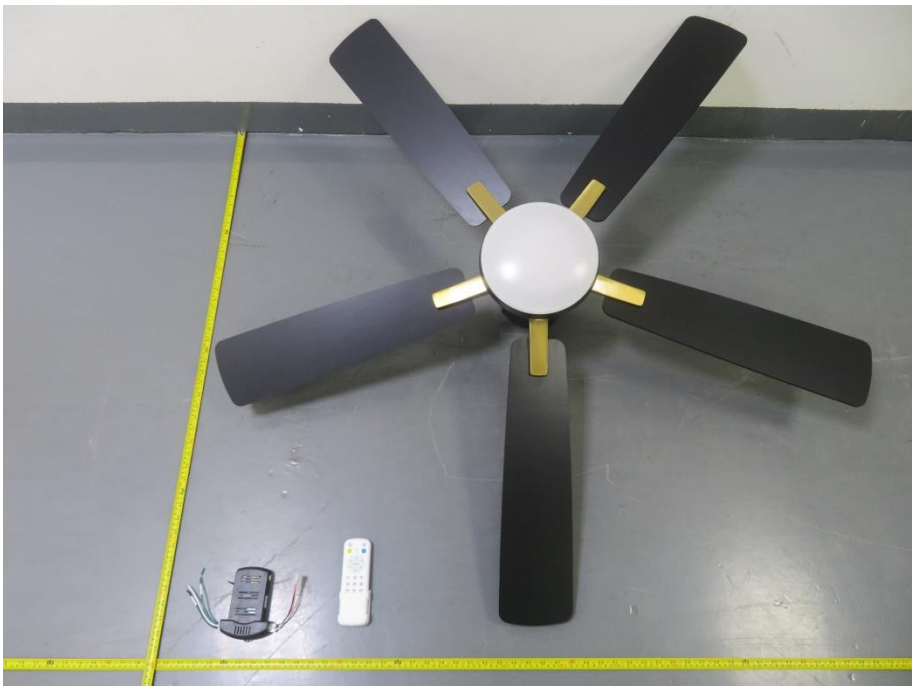

Fig. 7 (Model name: DM30031X)

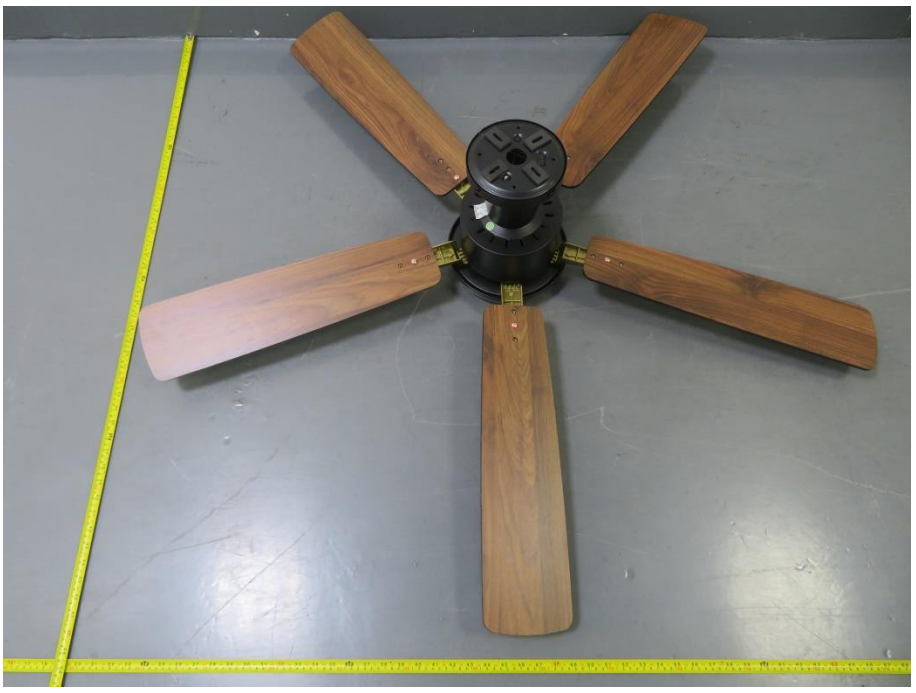

Fig. 8 (Model name: DM30031X)

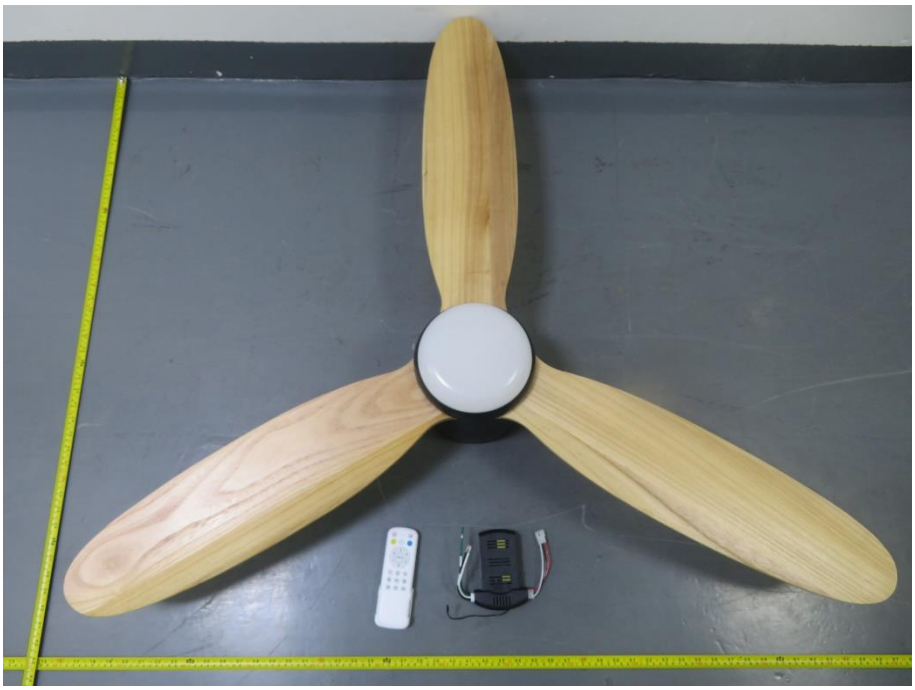

Fig. 9 (Model name: DM33015X)

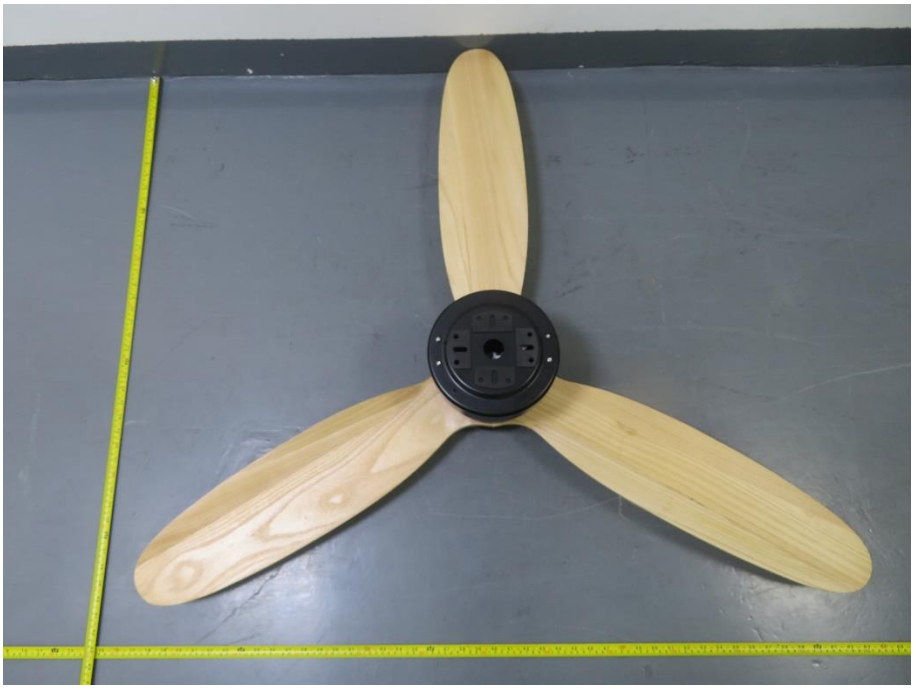

Fig. 10 (Model name: DM33015X)

Fig. 11 (Model name: DS20001)

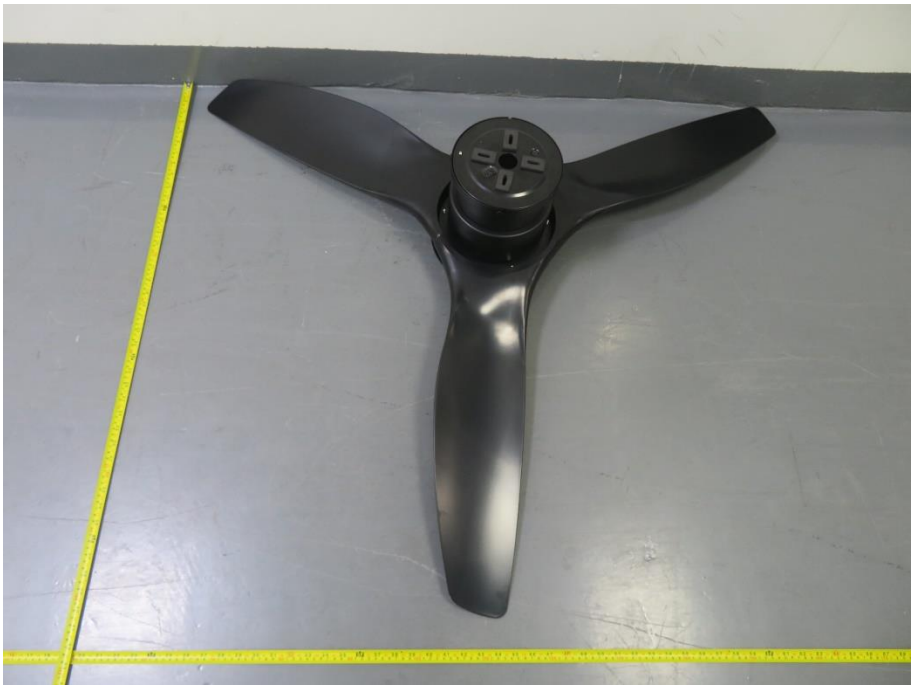

Fig. 12 (Model name: DS20001)

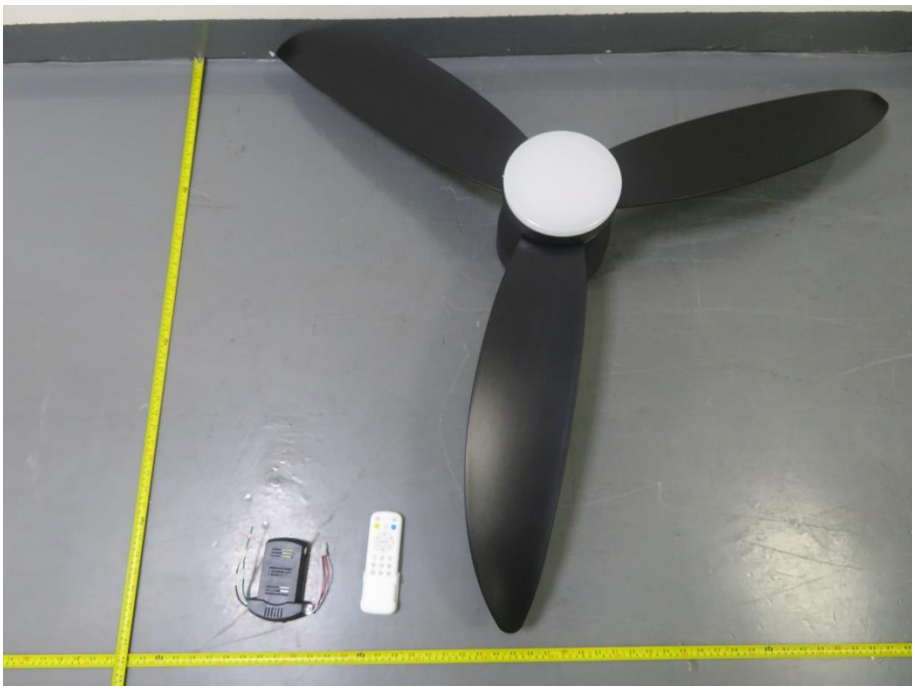

Fig. 13 (Model name: DS20005X)

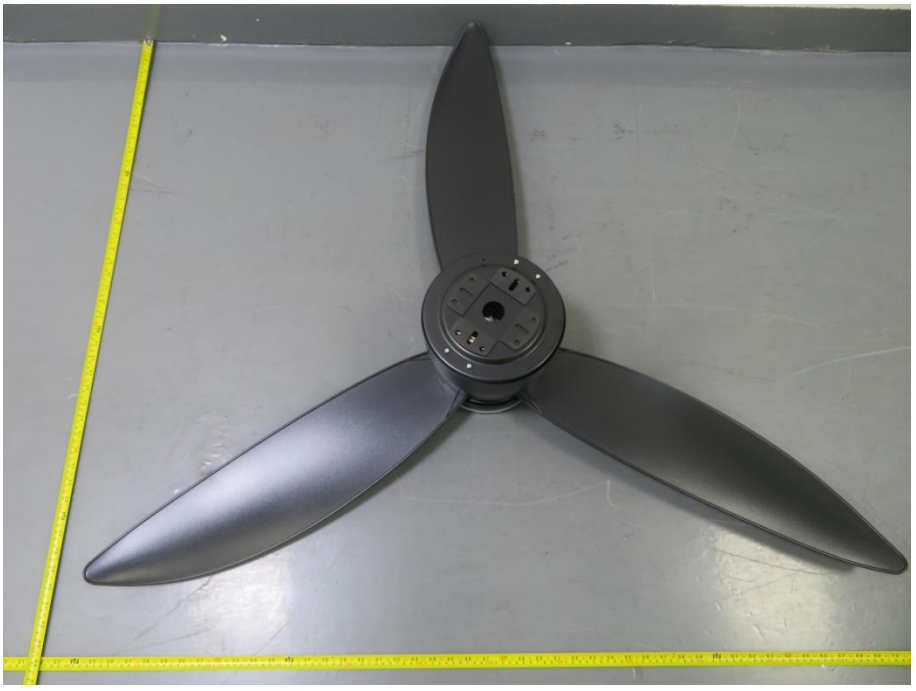

Fig. 14 (Model name: DS20005X)

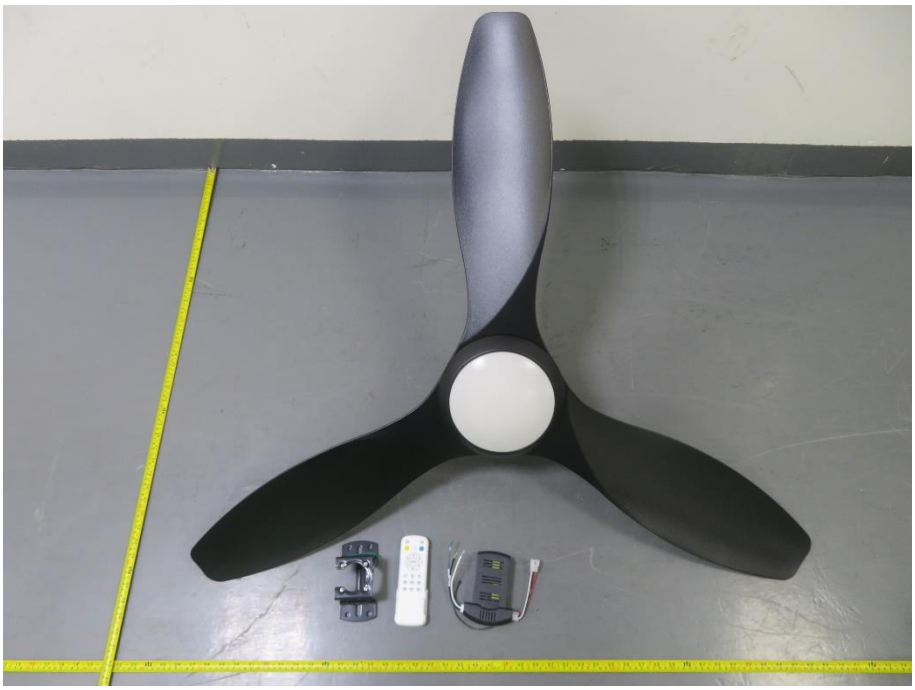

Fig. 15 (Model name: DS20016)

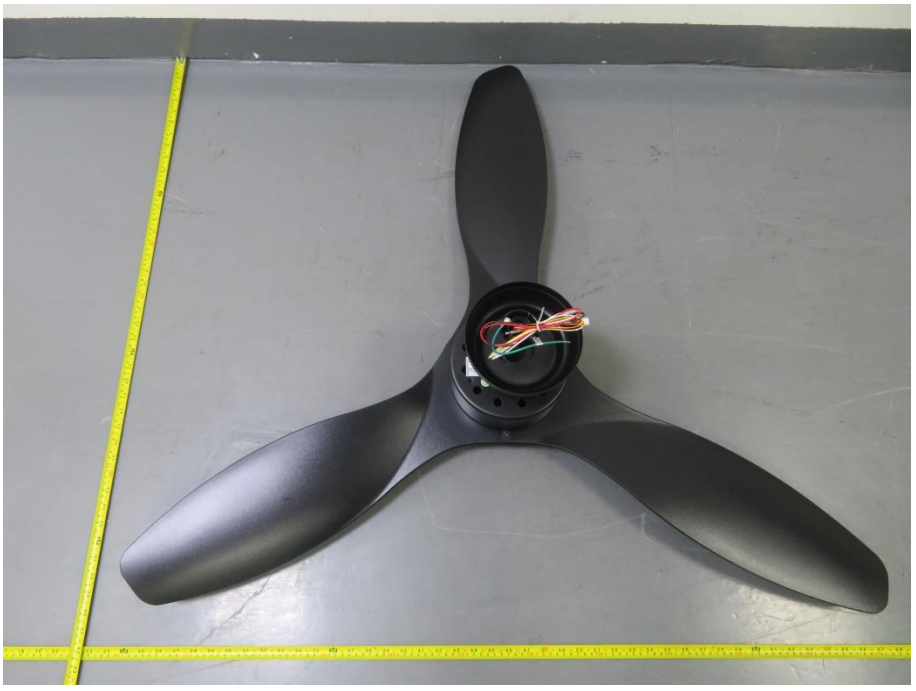

Fig. 16 (Model name: DS20016)

Fig. 17 (Model name: DS20019)

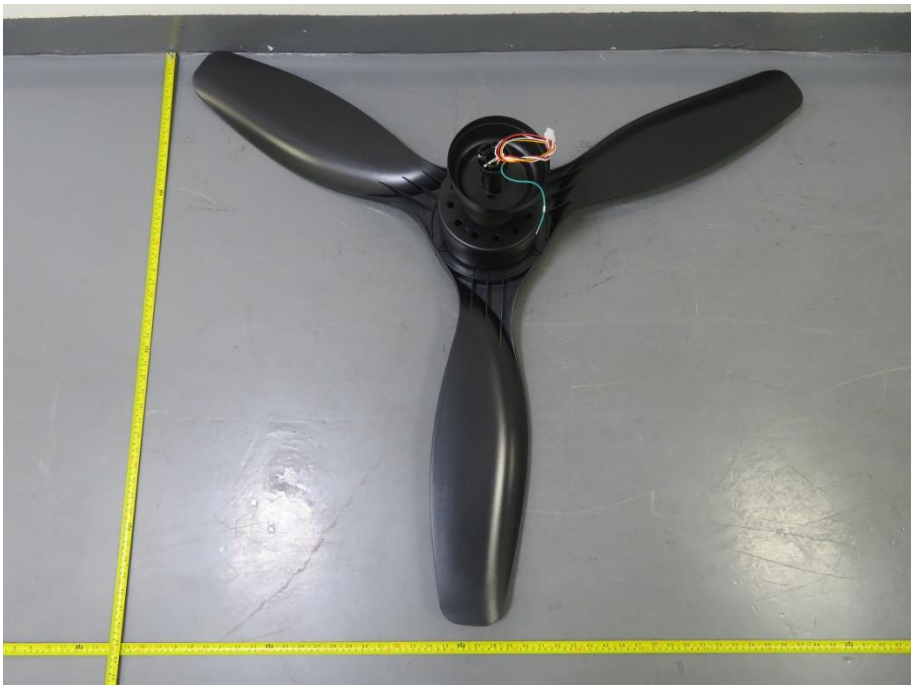

Fig. 18 (Model name: DS20019)

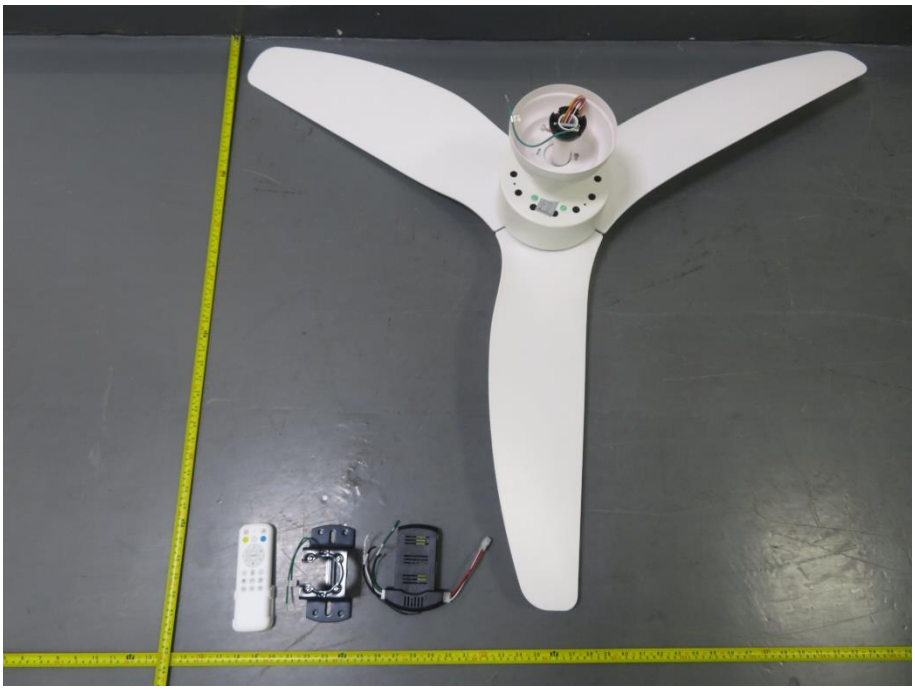

Fig. 19 (Model name: DS20039)

Fig. 20 (Model name: DS20039)

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