



Testing Laboratory

TL-441

Verification Services

Report No: 13281004-7a

Report Issued Date: 2020-03-18


Test Report

Customer Company & Address:			
Company Name: Jiangmen MagicPower Electrical Appliances Co., Ltd.			
Add: No. 5, Fuhui Road, Xinhui District, Jiangmen City, Guangdong Province, China.			
Contact Person:	Mike Chen	Email:	chenwk@magicpower.cc
Telephone:	13542112211	Fax:	86-750-2631881

Manufacturer:	Jiangmen MagicPower Electrical Appliances Co., Ltd.
Country of Origin:	China
Country of Export:	USA
Brand Name:	N/A
Product Description:	Ceiling Fan
Representative (Tested) Model:	MPFD5284(CF52374)-XXXXX
Model Number:	MPFD5284(CF52374)-XXXXX, LGL-151-XXXXX (XXXXX(Model with suffix "X", where "X" may be blank or alphanumeric character))
Model Differences:	Color
Electrical Specification:	120V/60Hz

Test Laboratory & Address:			
UL Verification Services (Guangzhou) Co., Ltd.			
ADD: 1-3F & Room 501, Building 2 (R&D Center A1), No. 25, South Huanshi Avenue, Nansha District, Guangzhou 511458, China			
Telephone:	+86 20 28667188	Fax:	+86 20 83486605

Receipt of Test Samples	2019-11-01	Test Period	2019-11-02~2019-11-14
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Tested By	Approved By
Chuxian Jiang Chuxian Jiang	 / Liny Lan
Test Personnel Name & Signatory	Approval Name & Signatory

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



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Testing Regulation

<input checked="" type="checkbox"/> DOE	DEPARTMENT OF ENERGY Office of Energy Efficiency and Renewable Energy 10 CFR Parts 429 and 430 [Docket No.EERE-2013-BT-TP-0050] RIN: 1904-AD10
<input checked="" type="checkbox"/> CEC	CEC-400-2017-002 California Code of Regulations, Title 20, Sections 1601 through 1608
<input type="checkbox"/> ES	ENERGY STAR Program Requirements - Product Specification for Residential Ceiling Fans and Ceiling Fan Light Kits - Eligibility Criteria Version 4.0
<input type="checkbox"/> NRCAN	Amendment 16 to the Energy Efficiency Regulations, 2016: SOR/2019-163 was published in Canada Gazette Part II on June 12, 2019 for Airflow of Ceiling Fans

Statement of Results

Test Flow	Test Method	Sample ID (Lab)	Sample Serial No.	Pass/Fail/NA
Ceiling Fan Energy Efficiency Testing	Appendix U to Subpart B of Part 430 – Uniform Test Method for Measuring the Energy Consumption of Ceiling Fan	2663968	N/A	Pass
		2663969	N/A	

Deviation from Test Method (if any)

N/A

Remark (if any)

The measurement result for the sample received are according to the Accuracy Method decision rule. Add new regulation CEC and original DOE report 13099461-7a is unavailable.



Test Report

Test Flow : Ceiling Fan Energy Efficiency Testing

1. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
GVS-LE-CF001	Power Meter	2019-07-19	2020-07-18
GVS-LE-CF002	Digital Tachometer	2019-07-21	2020-07-20
GVS-LE-CF003	Tem.& Hum.& Atm. Record	2019-07-19	2020-07-18
GVS-LE-CF004	Distance Measure Meter	2019-07-25	2020-07-24
GVS-LE-CF005	Chamber	2019-07-21	2020-07-20
GVS-LE-CF007	Rotating Sensor Arm System	2019-07-21	2020-07-20
GVS-LE-CF009~020	Air Speed Sensor	2019-10-16	2020-10-15

2. Test Sample Information

Product Description	Ceiling Fan		
Representative (Tested) Model	MPFD5284(CF52374)-XXXXX		
Light Kit Model Number	N/A		
Motor Model Number	153*18	Number of Blades	4
Fan Size(inch)	52	Blade Pitch Angle(°)	10.5°
Speed Control Type/Model No.	Pull Chain	Downrod Length(inch)	6
Blade Description	Standard Flat	Mounting Method	Standard Only
Blade Weight(g)	250g/pcs	DOE Products Category	LSSD
Blade Edge Thickness(inch)	0.2170	Flow-Direction Control Type/Model No.	Slide Switch
Blades Lowest Point to Ceiling	Standard: 12.60inches		

3. Test Result

Standard Mounting Method								
Sample ID	Measured Airflow(CFM)			Measured Power(W)				Efficiency (CFM/W)
	High	Medium	Low	High	Medium	Low	standby	
001	5577.43	/	2095.95	62.79	/	10.55	0.00	103.01
002	5613.20	/	2153.82	62.67	/	10.56	0.00	104.37
Average of Sample	5595.31	/	2124.89	62.73	/	10.56	0.00	103.69
LCL/0.9 for Airflow	6155.84	/	2262.01	/	/	/	/	112.88
UCL/1.1 for Power	/	/	/	57.36	/	9.62	0.00	/
Represented Value	5595.31	/	2124.89	62.73	/	10.56	0.00	103.69
Minimum Efficiency(CFM/W)	71.83							
Result (Pass/Fail)	Pass							
FTC EnergyGuide Label Information								
Weighted-Average Airflow CFM _{ave}	3969							
Energy Use W _{ave}	38							
Estimated Yearly Energy Cost(\$)	11							
Efficiency(CFM/W)	104							



Test Report

4. Test Data

LSSD+Standard -001

Sample ID	001	Tested Date	2019/11/14		Tested By	Chuxian		
Room Temp.(°C)	21.3	Relative Humidity(%)	52.0		Barometric Pressure(PSI)	14.8		
Low Speed Testing Model								
Max. RPM	79	Min. RPM	74		Voltage(V)	120.05		
Frequency(Hz)	59.990	Power P1(W)	10.55		Current(A)	0.2175		
Sensor #	Sensor Dist. From Center (inch)	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)
		A	B	C	D			
1	0	56.37	42.47	55.72	72.42	56.74	0.0873	4.95
2	4	72.47	59.18	65.54	73.84	67.76	0.6981	47.30
3	8	99.56	83.17	89.57	96.74	92.25	1.3963	128.82
4	12	130.09	127.40	124.40	125.18	126.77	2.0944	265.51
5	16	136.74	157.98	159.69	146.53	150.24	2.7925	419.53
6	20	108.57	142.27	150.87	141.74	135.86	3.4907	474.25
7	24	78.01	119.37	116.29	111.94	106.40	4.1888	445.69
8	28	45.24	75.47	68.34	64.62	63.42	4.8869	309.90
Total Air Flow of Low Speed(CFM)								2095.95
High Speed Testing Model								
Max. RPM	206	Min. RPM	198		Voltage(V)	119.97		
Frequency(Hz)	59.990	Power P2(W)	62.79		Current(A)	0.5238		
Sensor #	Sensor Dist. From Center	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)
		A	B	C	D			
1	0	222.20	258.46	260.14	202.88	235.92	0.0873	20.60
2	4	260.43	323.89	296.33	225.49	276.54	0.6981	193.05
3	8	315.67	376.58	345.46	292.89	332.65	1.3963	464.48
4	12	364.96	419.97	400.96	358.95	386.21	2.0944	808.87
5	16	380.77	442.47	429.83	419.67	418.18	2.7925	1167.78
6	20	305.17	355.66	344.74	371.44	344.26	3.4907	1201.69
7	24	206.35	246.68	225.98	272.97	237.99	4.1888	996.89
8	28	133.04	153.33	134.93	171.36	148.17	4.8869	724.07
Total Air Flow of High Speed(CFM)								5577.43
Standby Testing Model								
Voltage(V)		120.00		Frequency(Hz)		0.000		
Power P0(W)		0.00		Current(A)		0.0000		



Test Report

LSSD+Standard -002

Sample ID		002		Tested Date		2019/11/14		Tested By		Chuxian					
Room Temp.(°C)		21.3		Relative Humidity(%)		52.0		Barometric Pressure(PSI)		14.8					
Low Speed Testing Model															
Max. RPM		79		Min. RPM		75		Voltage(V)		120.05					
Frequency(Hz)		59.990		Power P1(W)		10.56		Current(A)		0.2175					
Sen sor #	Sensor Dist. From Center (inch)	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)							
		A	B	C	D										
1	0	48.17	51.48	49.84	81.92	57.85	0.0873	5.05							
2	4	62.45	70.25	56.92	83.25	68.22	0.6981	47.62							
3	8	88.71	99.64	78.63	105.81	93.20	1.3963	130.13							
4	12	126.55	143.47	116.32	132.81	129.79	2.0944	271.83							
5	16	147.66	163.26	150.49	152.52	153.48	2.7925	428.60							
6	20	125.92	133.36	152.64	143.93	138.96	3.4907	485.07							
7	24	92.01	104.76	129.91	114.69	110.34	4.1888	462.21							
8	28	51.50	67.50	81.27	64.37	66.16	4.8869	323.31							
Total Air Flow of Low Speed(CFM)										2153.82					
High Speed Testing Model															
Max. RPM		206		Min. RPM		200		Voltage(V)		119.97					
Frequency(Hz)		59.990		Power P1(W)		62.67		Current(A)		0.5228					
Sen sor #	Sensor Dist. From Center	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)							
		A	B	C	D										
1	0	263.20	250.31	266.96	202.76	245.81	0.0873	21.46							
2	4	308.90	316.57	297.90	221.91	286.32	0.6981	199.88							
3	8	362.61	370.65	344.69	291.64	342.40	1.3963	478.09							
4	12	396.66	418.45	405.95	357.21	394.57	2.0944	826.38							
5	16	381.17	443.00	436.53	422.38	420.77	2.7925	1175.01							
6	20	283.14	362.55	355.62	371.75	343.26	3.4907	1198.23							
7	24	184.28	253.33	236.00	271.49	236.27	4.1888	989.71							
8	28	126.13	156.91	142.95	166.98	148.24	4.8869	724.44							
Total Air Flow of High Speed(CFM)										5613.20					
Standby Testing Model															
Voltage(V)				120.00				Frequency(Hz)				0.000			
Power P0(W)				0.00				Current(A)				0.0000			



Test Report

5. Test Sample Photo(s)



*******END OF TEST REPORT*******