

**Verification Services**

Report No: 13376829-4a

Report Issued Date: 2020-06-23

Test Report

Customer Company & Address:			
Company Name: EILEEN GRAYS NETWORK TECHNOLOGY CO LTD			
Add: Rm 1707-1710 block D Weilan Business port Qianshan Rd Zhengwu District Hefei, Anhui CHINA			
Contact Person:	Peter	Email:	peter@eileengrays.com
Telephone:	13631126042	Fax:	N/A

Manufacturer:	Zhongshan Fengmei lighting & Electrical Ltd
Country of Origin:	China
Country of Export:	USA
Brand Name:	Parrotuncle
Product Description:	Ceiling Fan
Representative (Tested) Model:	F4710
Model Number:	F4710
Model Differences:	N/A
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	2020-06-09	Test Period	2020-06-11
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Handle By	Approved By
Xian Zhuo Zheng / Xianzhuo Zheng	 / 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

☒ 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
☐ CEC	CEC-400-2017-002 California Code of Regulations, Title 20, Sections 1601 through 1608
☐ ES	ENERGY STAR Program Requirements - Product Specification for Residential Ceiling Fans and Ceiling Fan Light Kits - Eligibility Criteria Version 4.0
☐ 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	3108049	N/A	Pass
		3108050	N/A	

Deviation from Test Method (if any)

N/A

Remark (if any)

1. The measurement result for the sample received are according to the Accuracy Method decision rule.
2. As client declare, cases in which safety standards would be violated by the use of the reversible mode ,so this ceiling fan not include a reversible switch.



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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	F4710		
Light Kit Model Number	N/A		
Motor Model Number	153*12	Number of Blades	3
Fan Size(inch)	42	Blade Pitch Angle(°)	20
Speed Control Type/Model No.	Remote Control	Downrod Length(inch)	4
Blade Description	Curved Surface	Mounting Method	Standard Only
Blade Weight(g)	180g/pc	DOE Products Category	LSSD
Blade Edge Thickness(inch)	0.1270	Flow-Direction Control Type/Model No.	See Remark
Blades Lowest Point to Ceiling(inches)	Standard: 10.43		

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	3528.01	/	2133.80	45.88	/	20.19	0.27	83.14
002	3521.04	/	2139.72	45.75	/	20.06	0.27	83.44
Average of Sample	3524.52	/	2136.76	45.81	/	20.13	0.27	83.29
LCL/0.9 for Airflow	3904.23	/	2364.06	/	/	/	/	92.02
UCL/1.1 for Power	/	/	/	42.02	/	18.66	0.25	/
Represented Value	3524.52	/	2136.76	45.81	/	20.13	0.27	83.29
Minimum Efficiency(CFM/W)	65.33							
Result (Pass/Fail)	Pass							
FTC EnergyGuide Label Information								
Weighted-Average Airflow CFM _{ave}	2874							
Energy Use W _{ave}	35							
Estimated Yearly Energy Cost(\$)	10							
Efficiency(CFM/W)	83							



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4. Test Data

LSSD+Standard -001

Sample ID		001	Tested Date		2020/6/11	Tested By		Chuxian
Room Temp.(°C)		20.2	Relative Humidity(%)		50.0	Barometric Pressure(PSI)		14.6
Low Speed Testing Model								
Max. RPM		167	Min. RPM		159	Voltage(V)		120.01
Frequency(Hz)		59.989	Power P1(W)		20.19	Current(A)		0.3141
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	123.20	115.38	125.49	138.79	125.71	0.0873	10.97
2	4	281.54	224.72	188.91	247.29	235.61	0.6981	164.48
3	8	321.42	334.82	335.78	364.36	339.10	1.3963	473.48
4	12	205.17	289.09	252.15	320.71	266.78	2.0944	558.74
5	16	104.45	195.76	129.04	220.33	162.40	2.7925	453.49
6	20	56.45	107.71	64.76	118.52	86.86	3.4907	303.20
7	24	42.85	65.32	46.81	65.34	55.08	3.0761	169.43
Total Air Flow of Low Speed(CFM)								2133.80
High Speed Testing Model								
Max. RPM		216	Min. RPM		209	Voltage(V)		120.07
Frequency(Hz)		59.989	Power P2(W)		45.88	Current(A)		0.3985
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	182.93	170.76	190.33	199.36	185.85	0.0873	16.22
2	4	441.48	363.62	320.14	353.86	369.78	0.6981	258.14
3	8	533.80	541.30	550.52	583.32	552.23	1.3963	771.08
4	12	325.04	455.32	399.73	542.58	430.67	2.0944	902.00
5	16	168.15	323.36	206.53	383.27	270.33	2.7925	754.90
6	20	93.94	194.96	108.65	208.10	151.41	3.4907	528.53
7	24	72.90	118.04	76.21	119.25	96.60	3.0761	297.14
Total Air Flow of High Speed(CFM)								3528.01
Standby Testing Model								
Voltage(V)			120.08		Frequency(Hz)		59.989	
Power P0(W)			0.27		Current(A)		0.1231	



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LSSD+Standard -002

Sample ID		002	Tested Date		2020/6/11	Tested By		Chuxian
Room Temp.(°C)		20.2	Relative Humidity(%)		50.0	Barometric Pressure(PSI)		14.6
Low Speed Testing Model								
Max. RPM		168	Min. RPM		159	Voltage(V)		120.03
Frequency(Hz)		59.989	Power P1(W)		20.06	Current(A)		0.3221
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	119.63	98.57	109.97	121.21	112.35	0.0873	9.81
2	4	299.29	216.42	166.47	238.78	230.24	0.6981	160.73
3	8	330.17	328.04	337.66	366.12	340.50	1.3963	475.44
4	12	189.15	289.36	273.29	321.36	268.29	2.0944	561.92
5	16	88.15	207.45	135.65	222.70	163.49	2.7925	456.55
6	20	49.80	115.16	64.46	120.67	87.52	3.4907	305.51
7	24	40.00	68.26	45.07	67.42	55.19	3.0761	169.77
Total Air Flow of Low Speed(CFM)								2139.72
High Speed Testing Model								
Max. RPM		216	Min. RPM		208	Voltage(V)		120.07
Frequency(Hz)		59.990	Power P2(W)		45.75	Current(A)		0.4052
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	175.60	167.08	184.64	204.19	182.88	0.0873	15.97
2	4	435.17	359.88	312.29	382.15	372.37	0.6981	259.95
3	8	536.53	560.45	545.33	598.07	560.09	1.3963	782.06
4	12	325.21	465.07	406.29	545.33	435.48	2.0944	912.06
5	16	158.38	324.11	216.65	385.20	271.08	2.7925	757.00
6	20	89.75	187.04	107.79	204.12	147.18	3.4907	513.74
7	24	69.21	112.57	72.97	109.67	91.10	3.0761	280.25
Total Air Flow of High Speed(CFM)								3521.04
Standby Testing Model								
Voltage(V)			120.08		Frequency(Hz)		59.990	
Power P0(W)			0.27		Current(A)		0.1436	



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5. Test Sample Photo(s)



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