Everwind Excellence Co., Limited

TEST REPORT

SCOPE OF WORK
ENERGY EFFICIENCY TESTING - CEILING FAN WITH LIGHT KIT- [See Page 2 “Model(s)"]

REPORT NUMBER
260729036GZS-004

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Applicant/Manufacturer:	Everwind Excellence Co., Limited
Address:	RM 701 UNIT 127, 7/F TOWER B NEW MANDARIN PLAZA14 SCIENCE MUSEUM RD TSIM SHA TSUI HONG KONG
Manufacturing site:	Foshan Hengyue He Feng Lighting Technology Co., Ltd.
Address:	NO.6, Xiang'an North Road, Building A,Jun'an Community,Jun'an Town,Shunde District, FOSHAN CITY,Guangdong Province, P.R.China
Testing Location:	Same as the Testing Laboratory
Address:	Same as the Testing Laboratory's Address
Product:	Ceiling Fan with Light Kit
Brand Name:	Greenever
Description:	The product covered by this report is a household, indoor use, fix connected ceiling fan.
Model(s):	CFL-0020,CFL-0020-XXXX
Model Similarity:	All models are identical except for the specific model name and colors. X can represent A~Z, 0~9 or blank.
Ratings:	120V 60Hz
Date of receipt of sample(s):	29-Jul-2026
Date Range of Test:	12-Oct-2026
Test standard(s) or criteria(s):	10 CFR 430, Appendix U to subpart B Uniform Test Method for Measuring the Energy Consumption of Ceiling Fans California Code of Regulations, Title 20, Division 2, Chapter 4, Article 4, Sections 1601-1609: Appliance Efficiency Regulations
Conclusion:	The product tested complies with the Energy Efficiency Standard of DOE&CEC, starting on January 21, 2020.

Prepared by:	Nora Tan	Approved by:	Taylor Cai
Title:	Engineer	Title:	Sr. Project Engineer
Signature:	Nora Tan	Signature:	Taylor Cai

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Photos:

Photo 1 - Overall view



Product Details

Item	Data
Model number of Unit Under Tested	CFL-0020
Serial number	NA
Condition of sample(s)	Prototype
Product Type	Ceiling Fan with Light Kit
Product Class	Standard
Fan Size [in]	42
Number of fan speeds	6
Type of Fan Speed Control	Remote control
Fan speed controls separate from lighting controls?	Yes
The capability of reversible fan action?	Yes
Airflow direction	Reversible
Thickness of edges of blades [mm]	3.40
Thickness of edges of blades [inch]	0.13
Maximum distance between lowest point on the fan blades and the ceiling [inch]	16.50
Minimum distance between lowest point on the fan blades and the ceiling [inch]	16.50
Maximum Tip speed threshold [m/s]	9.83
Maximum Tip speed threshold [fpm]	1935

Critical Components

Name	Manufacturer / trademark	Type / model	Technical data
Fan motor	Foshan Hengyue He Feng Lighting Technology Co.,Ltd.	140*12	DC24V, Class A

NOTE

“Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" can be used.

Sample 1, Air Delivery Test at Low Speed - First Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.2
Room temperature	*°F*	68.8	Frequency	*Hz*	60
Relative humidity	*%*	49.1	Current	*A*	0.10
Rotate speed	*RPM*	162	Power	*W*	3.93

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	235.06	232.05	231.08	240.83	234.76	0.0873	20.49
2	248.87	249.13	249.98	251.97	249.99	0.6981	174.53
3	297.44	296.94	298.80	296.11	297.32	1.3963	415.14
4	269.82	277.26	256.83	283.20	271.78	2.0944	569.20
5	179.17	179.57	167.11	201.23	181.77	2.7925	507.60
6	93.09	90.02	91.16	104.13	94.60	3.4907	330.22
7	65.72	61.99	66.27	67.85	65.46	3.0761	201.36
8							
9							
10							
11							
12							
						Total airflow [CFM]:	2218.53

Sample 1, Air Delivery Test at Low Speed - Second Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.2
Room temperature	*°F*	70.5	Frequency	*Hz*	60
Relative humidity	*%*	47.0	Current	*A*	0.10
Rotate speed	*RPM*	162	Power	*W*	3.94

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	240.01	233.51	238.12	245.34	239.24	0.0873	20.88
2	253.87	254.50	252.21	254.35	253.73	0.6981	177.14
3	300.83	297.10	304.39	300.55	300.72	1.3963	419.88
4	268.27	284.72	255.52	277.34	271.46	2.0944	568.55
5	182.93	197.49	167.02	188.00	183.86	2.7925	513.43
6	92.63	103.53	87.34	87.46	92.74	3.4907	323.73
7	61.41	62.00	60.98	61.87	61.57	3.0761	189.38
8							
9							
10							
11							
12							
						Total airflow [CFM]:	2212.99

Sample 1, Air Delivery Test at High Speed - First Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.1
Room temperature	*°F*	71.9	Frequency	*Hz*	60
Relative humidity	*%*	45.0	Current	*A*	0.25
Rotate speed	*RPM*	176	Power	*W*	13.90

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	379.10	386.57	369.81	360.31	373.95	0.0873	32.63
2	436.05	429.71	412.95	414.05	423.19	0.6981	295.44
3	522.47	514.74	505.05	509.89	513.04	1.3963	716.34
4	456.66	478.99	477.32	477.53	472.62	2.0944	989.86
5	281.18	320.46	326.80	329.17	314.40	2.7925	877.98
6	152.50	167.84	186.07	183.95	172.59	3.4907	602.45
7	105.41	106.70	119.67	123.29	113.77	3.0761	349.96
8							
9							
10							
11							
12							
						Total airflow [CFM]:	3864.67

Sample 1, Air Delivery Test at High Speed - Second Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.2
Room temperature	*°F*	71.0	Frequency	*Hz*	60
Relative humidity	*%*	46.0	Current	*A*	0.25
Rotate speed	*RPM*	176	Power	*W*	13.94

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	354.32	375.36	388.96	377.68	374.08	0.0873	32.64
2	415.19	428.82	428.07	422.81	423.72	0.6981	295.81
3	507.22	525.37	514.53	507.89	513.75	1.3963	717.34
4	460.72	489.63	475.13	487.77	478.31	2.0944	1001.78
5	303.52	328.74	318.59	342.20	323.26	2.7925	902.72
6	167.73	179.00	166.32	178.39	172.86	3.4907	603.40
7	116.16	110.57	113.39	118.29	114.60	3.0761	352.53
8							
9							
10							
11							
12							
						Total airflow [CFM]:	3906.22

Sample 2, Air Delivery Test at Low Speed - First Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.2
Room temperature	*°F*	71.5	Frequency	*Hz*	60
Relative humidity	*%*	49.5	Current	*A*	0.10
Rotate speed	*RPM*	162	Power	*W*	3.91

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	241.94	234.83	228.32	246.54	237.91	0.0873	20.76
2	260.89	247.83	237.07	254.16	249.99	0.6981	174.52
3	305.11	296.04	285.98	299.93	296.77	1.3963	414.36
4	257.17	280.15	287.32	263.10	271.93	2.0944	569.54
5	151.75	190.49	225.74	175.03	185.75	2.7925	518.72
6	75.02	94.69	124.56	85.16	94.86	3.4907	331.12
7	55.47	60.43	72.58	56.48	61.24	3.0761	188.38
8							
9							
10							
11							
12							
						Total airflow [CFM]:	2217.40

Sample 2, Air Delivery Test at Low Speed - Second Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.2
Room temperature	*°F*	70.3	Frequency	*Hz*	60
Relative humidity	*%*	50.9	Current	*A*	0.10
Rotate speed	*RPM*	162	Power	*W*	3.92

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	235.71	227.69	236.23	245.50	236.28	0.0873	20.62
2	264.04	244.08	238.44	258.23	251.20	0.6981	175.37
3	305.01	290.49	290.28	303.57	297.34	1.3963	415.16
4	259.31	276.94	281.94	256.32	268.62	2.0944	562.61
5	163.82	199.00	211.14	158.49	183.11	2.7925	511.34
6	87.79	104.23	118.22	77.97	97.05	3.4907	338.78
7	61.97	61.48	73.38	60.43	64.32	3.0761	197.84
8							
9							
10							
11							
12							
						Total airflow [CFM]:	2221.73

Sample 2, Air Delivery Test at High Speed - First Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.1
Room temperature	*°F*	72.5	Frequency	*Hz*	60
Relative humidity	*%*	48.0	Current	*A*	0.25
Rotate speed	*RPM*	176	Power	*W*	13.93

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	364.82	370.63	370.99	403.10	377.38	0.0873	32.93
2	429.42	420.77	403.28	443.85	424.33	0.6981	296.24
3	517.40	501.91	483.61	530.17	508.27	1.3963	709.68
4	448.06	483.72	497.56	466.93	474.07	2.0944	992.88
5	265.58	332.64	407.29	307.54	328.26	2.7925	916.68
6	141.42	183.97	230.69	160.57	179.16	3.4907	625.40
7	105.06	108.42	130.49	113.75	114.43	3.0761	352.00
8							
9							
10							
11							
12							
						Total airflow [CFM]:	3925.81

Sample 2, Air Delivery Test at High Speed - Second Set

Item	*Unit*	Value	Item	*Unit*	Value
Barometric pressure	*hPa*	967	Voltage	*V*	120.1
Room temperature	*°F*	73.1	Frequency	*Hz*	60
Relative humidity	*%*	47.4	Current	*A*	0.25
Rotate speed	*RPM*	176	Power	*W*	13.93

Sensor #	Velocity in FPM - Axis #				Average Vel. [FPM]	Circle area [sq. Ft.]	Airflow [CFM]
	A	B	C	D			
1	376.01	397.28	372.01	381.78	381.77	0.0873	33.32
2	440.62	432.67	393.31	430.40	424.25	0.6981	296.18
3	517.57	510.74	485.14	507.90	505.34	1.3963	705.58
4	444.94	469.13	495.73	474.61	471.10	2.0944	986.67
5	283.95	307.49	401.21	314.80	326.86	2.7925	912.76
6	147.20	168.58	232.06	167.62	178.86	3.4907	624.35
7	106.34	105.42	132.73	114.84	114.83	3.0761	353.24
8							
9							
10							
11							
12							
						Total airflow [CFM]:	3912.11

Standby power

Item	*Unit*	Sample 1	Sample 2
Applied voltage	*V*	120	120
Frequency	*Hz*	60	60
Total harmonic content	*%*	1.03	1.03
Accumulated energy	*mWh*	138	138
Period of measurement	*min*	10	10
Standby or off mode power	*W*	0.83	0.83

Conclusion

Item	Airflow [CFM]		Power [W]		Standby [W]	Efficiency [CFM/W]
	Low	High	Low	High		
Sample 1	2215.76	3885.44	3.93	13.92	0.83	269.27
Sample 2	2219.57	3918.96	3.91	13.93	0.83	271.10
Number of samples	2	2	2	2	2	2
Mean	2217.66	3902.20	3.92	13.93	0.83	270.18
Standard deviation	2.69	23.70	0.01	0.01	0.00	1.29
$LCL_{0.90}$/0.9 for Airflow and Efficiency	2457.56	4278.46	N/A	N/A	N/A	297.08
$UCL_{0.95}$/1.1 for Power	N/A	N/A	3.62	12.68	0.75	N/A
Declarable value	2218	3902	3.9	13.9	0.83	270.18
Minimum Efficiency on and after January 21, 2020						65.33
Verdict						Pass

FTC EnergyGuide

Item	*Unit*	Standard	Hugger
Airflow (weighted-average)	*CFM*	3113	N/A
Energy Use	*W*	12	N/A
Airflow Efficiency	*CFM/W*	270	N/A
Estimated Yearly Energy Cost	*$*	3	N/A

Revision Summary

Date/ Proj # Site ID	Project Handler/ Reviewer	Item	Description of Change
			None