U.S. DEPARTMENT OF ENERGY

TEST REPORT

Of Ceiling Fans

Report Reference No. ..... :	TYT260608010S
Test by (print+signature) ..... :	Serena Song
Checked by (print+signature) ..... :	Jean Shu
Approved by (print+signature) ..... :	Seven Wang
Date of issue ..... :	June 15, 2026
Total number of pages ..... :	7 pages

Testing Laboratory ..... :	**Shenzhen TYT Testing Services Co., Ltd.**
Address ..... :	204, No. 111 of Huanguan Middle Road, Songxuan Community, Guanhu Street, Longhua Dist., Shenzhen, Guangdong, China
Applicant's name ..... :	**Shenzhen Lingke Technology Co., Ltd.**
Address ..... :	19F, Times Center, No. 102 Zhongxin Road, Shangxing Community, Xinqiao Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Manufacturer's name ..... :	**Shenzhen Lingke Technology Co., Ltd.**
Address ..... :	19F, Times Center, No. 102 Zhongxin Road, Shangxing Community, Xinqiao Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Test specification:	
Standard ..... :	10 C.F.R. section 430.23(W) Appendix U to Subpart B of Part 430 IEC 62301, Approved Method: Testing Facility and Performing the Solid State Test Method for ENERGY STAR Qualified Ceiling Fans
Test procedure ..... :	Type test
Non-standard test method ..... :	None
Test Report Form No. ..... :	DOE-CF-c
Test Report Form(s) Originator ..... :	TYT-lab
Master TRF ..... :	2024-12-30

This publication may be produced in whole or in part for non-commercial purposes as long as TYT-lab is acknowledged as copyright owner and source of the material. TYT-lab takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context

Test item description ..... :	Lumary smart ceiling fan light
Trade Mark ..... :	Lumary
Model/Type reference ..... :	L-CFL20B2, L-CFL20B1, L-CFL19C1, L-CFL19C2, L-CFL20J1, L-CFL20I1, L-CFL52H1, L-CFL52H2, L-CFL52H3, L-CFL20G1
Ratings ..... :	AC120V, 50/60Hz, 25W

PRODUCT INFORMATION

Information	Remark
Product type	Lumary smart ceiling fan light
Product description	High-Speed Small-Diameter (HSSD)

Product group code	Product Group Code Description
1	Very Small-Diameter (VSD), Diameter less than or equal to 12 in.
2	Very Small-Diameter (VSD), Diameter greater than 12 in.
3	Standard
4	Hugger
5	High-Speed Small-Diameter (HSSD)
6	Large-Diameter

To determine representative values of airflow, energy use, and estimated yearly energy cost ofan LSSD or VSD ceiling fan basic model, use the following provisions.

1) Airflow. Determine the represented value for airflow by calculating the weighted-averageairflow of an LSSD or VSD ceiling fan basic model at low and high fan speed as follows:

$$CFM_{ave} = \frac{CFM_{Low} \times 3.0 + CFM_{High} \times 3.4}{6.4}$$

2) Energy Use. Determine represented value for energy use by calculating the weighted-average power consumption of an LSSD or VSD ceiling fan basic model at low and high fan speed as follows:

$$W_{ave} = \frac{W_{Low} \times 3.0 + W_{High} \times 3.4 + W_{Sb} \times 17.6}{6.4}$$

3) Estimated Yearly Energy Cost. Determine the represented value for estimated yearly energy cost of an LSSD or VSD ceiling fan basic model at low and high fan speed as follows:

$$EYEC = \frac{W_{Low} \times 3.0 + W_{High} \times 3.4 + W_{Sb} \times 17.6}{1000} \times 365 \times C_{KWH}$$

The tests have been carried out in accordance with the test programme, and as such, the results are only applicable to the sample tested and the conditions of the test. Sample variability and changes in test conditions could influence some results, and the result(s) as stated may not be representative of the mean result if a number of different samples were tested under a variety of test conditions.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Test Results:

Test parameter	Test sample (HIGH Speed)					
	Sample 1	**Sample 2**	**Mean of Sample**	**LCL/0.9**	**UCL/1.1**	**Declarable value**
Airflow (CFM) at High Speed	1293	1291	1292	1431	--	1292
Power (W)	14.1	14.5	14	--	15	15
Ceiling Fan Efficiency (CFM/W)	87	84	86	88	--	86
Blade Span (inches)	20	20	20	--	--	20
Blade RPM at High Speed	230	232	231	--	--	231
Blade Edge Thickness (inches)	0.08	0.08	0.08	--	--	0.08
The distance between the Ceiling and the Lowest Point on the Fan Blades (inch)	20	20	20	--	--	20
Tip speed (ft/min)	1204	1214	1209	--	--	1209
Standby Power (W)	0.8	0.8	0.8	--	--	0.8

Test parameter	Test sample (Low Speed)					
	Sample 1	**Sample 2**	**Mean of Sample**	**LCL/0.9**	**UCL/1.1**	**Declarable value**
Airflow (CFM) at Low Speed	--	--	--	--	--	--
Power (W)	--	--	--	--	--	--
Ceiling Fan Efficiency (CFM/W)	--	--	--	--	--	--
Blade Span (inches)	--	--	--	--	--	--
Blade RPM at Low Speed	--	--	--	--	--	--
Tip speed (ft/min)	--	--	--	--	--	--

	Declarable Value
Airflow (CFM_{ave}) at Average value	1292
Power (W_{ave}) at Average value (W)	15
Ceiling Fan Efficiency (CFM/W)	86
Blade Span (inches)	20
Blade RPM at High Speed	231
Blade Edge Thickness (inches)	0.08
The distance between the Ceiling and the Lowest Point on the Fan Blades (inchs)	20
Number of Speed Control Settings	6
Standby Power (W)	0.8
EYEC(Estimated Yearly Energy Cost)(dollars)	8

RATING LABEL

Lumary smart ceiling fan light

Model: L-CFL20B2

Input: AC120V, 50/60Hz, 25W

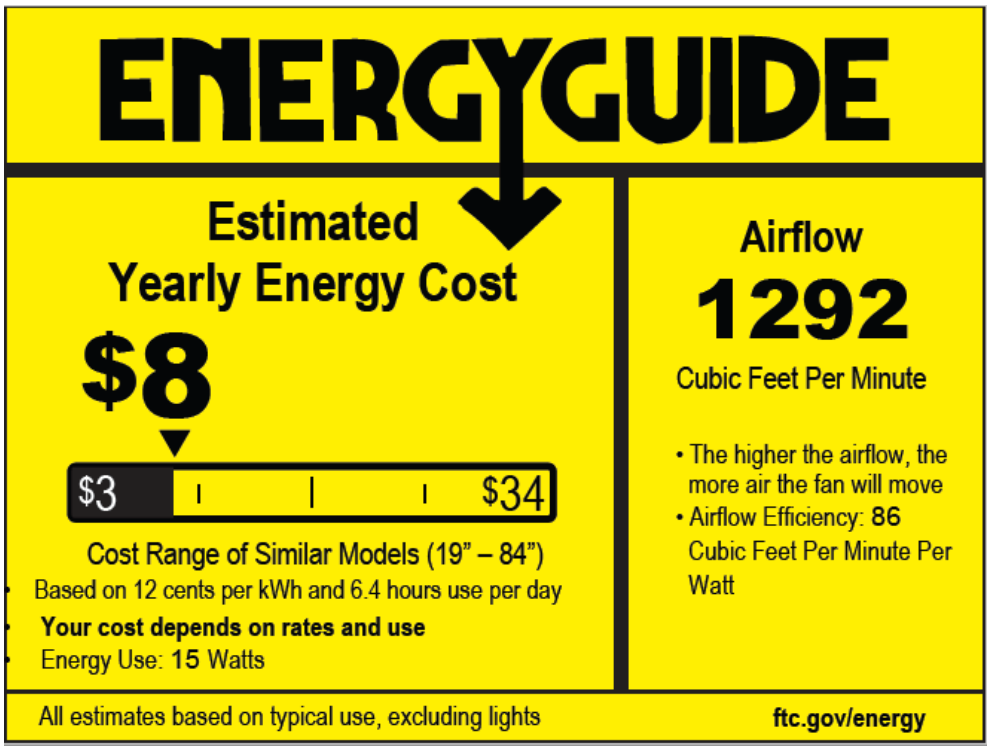


Manufacturer: Shenzhen Lingke Technology Co., Ltd.

Manufacturing date: 2026/4/20

Made in China

FTC LABEL


ENERGYGUIDE
Estimated
Yearly Energy Cost
$8
$3
$34
Cost Range of Similar Models (19" – 84")
Based on 12 cents per kWh and 6.4 hours use per day
Your cost depends on rates and use
Energy Use: 15 Watts
Airflow
1292
Cubic Feet Per Minute
• The higher the airflow, the more air the fan will move
• Airflow Efficiency: 86 Cubic Feet Per Minute Per Watt
All estimates based on typical use, excluding lights
ftc.gov/energy

4 Photo of sample

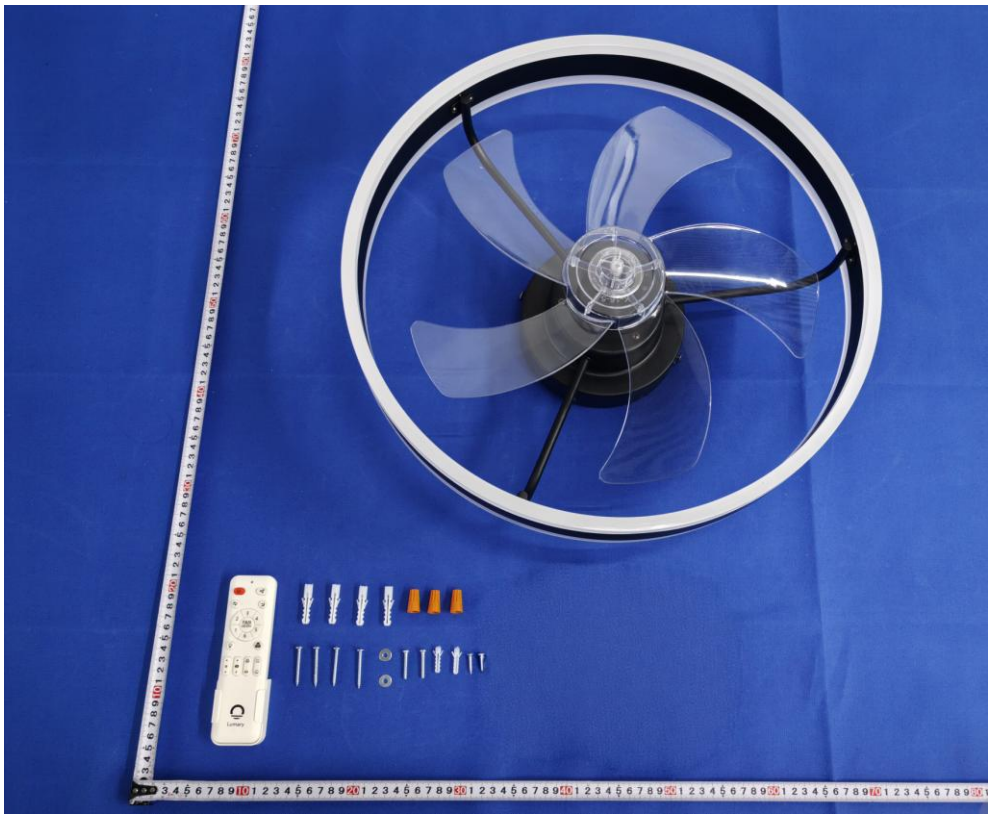


Photo 1



Photo 2



Photo 3

- - - End of Report - - -