

Zhong Shan Hengermei Lighting Co., Ltd.

TEST REPORT

SCOPE OF WORK

CEC testing report

REPORT NUMBER

191218163GZU-001

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None

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CEC report_T20_Ceiling Fan Light Kit_B1
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TEST REPORT

TEST OF CEILING FAN LIGHT KITS

MODEL NO.

EP24375, EP24376, EP24510US, EP24511US, EP24559US, EP24560US, EP24562US,
EP24563US, EP24564US, EP24565US, EP24566US, EP24567US, EP24568US, EP24569US,
EP24570US, EP24571US, EP24572US, EP24573US, EP24574US, EP24575US, EP24576US,
EP24577US, EP24578US, EP24579US, EP24580US

RENDERED TO

Zhong Shan Hengermei Lighting Co., Ltd.
3rd Floor, No. 2 Juxin Industrial Park, 61
Lianfeng Juxin Road, Xiaolan Town,
Zhongshan, Guangdong, China

Contact Name: He Jia Zhi
Email: he@hengermei.com
Phone No.: 13823923583

TEST: Luminaire Efficacy, Current Limiting Device Measurements to 10 C.F.R. section 430.23(x) (Appendix V and Appendix V1 to Subpart B of part 430)

STATEMENT OF LIMITATION: The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

LABORATORY NOTE: The laboratory that conducted the testing detailed in this report has been Qualified, Verified, and Recognized for LM-79 Testing for Luminaires by NVLAP program.

AUTHORIZATION: The testing performed was authorized by signed quote number: QGZ191216097.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IES LM-79: 2008 Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

DESCRIPTION OF SAMPLE: The client submitted 10 samples of model HEM006. The samples were received by Intertek on 18 December, 2019, in undamaged condition, and were tested as received. The sample designations were S191218163-001~010.

DATES OF TESTS: 18 December 2019 to 04 March 2020

ISSUED BY: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

TEST LOCATION: Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Test CONCLUSION: The test results are in compliance with the test requirements.
Note: when determining the test conclusion, the Measurement Uncertainty of test has been considered according to Accuracy Method stated in IEC Guide 115.

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Summary of Data Submittal:

Required Information	Permissible Answers	Submittal Data	Verdict
Socket Type	Candelabra Screw Based, Medium screw base, pin-based, other	Candelabra Screw Based	P
Packaged with all appropriate lamps to fill all sockets	True, False	True	P
Lumens for each basic model of lamp or each basic model of integrated SSL (lm)	--	See Test Results	P
Rated wattage (watts)	--	See Products Information	P
Efficacy (lm/W)	Data Meet 1605.1(d)(2)(D)	See Test Results	P
Medium screw base sockets packaged with compact fluorescent lamps	True, False	False	N/A
Medium screw base compact fluorescent lamps meet section 1605.1(d)(2)(D)1. (medium screw base sockets packaged with compact fluorescent lamps only)	True, False	False	N/A
Pin-based sockets for fluorescent lamps	True, False	False	N/A
Uses an electronic ballast (pin-based sockets for fluorescent lamps only)	True, False	False	N/A

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EQUIPMENT LIST

Equipment Used	Model Number	Control Number
Temperature Meter	RS210	SA047-126
Sensing - DC Power Supply	IT6122	SA063-12-09
Sensing- AC power source for Integrating Sphere System	APW-105N	SA063-12-05
Two meter integrating sphere unit	Sensing – 2M	SA063-12-01
YOKOGAWA – Digital Power Meter	WT-210	SA063-12-04
YOKOGAWA – Digital Power Meter	WT-210	SA011-122
Standard lamp	S82134	SA063-12-13
Standard lamp	S1320039	SA063-12-24
Sliding Resistor	BX7-14	SA019-82

GENERAL REMARK

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Throughout this report a comma point is used as the decimal separator.

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TEST METHOD

Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79

Chromaticity Measurements

Chromaticity was measured using a 2 meters integrating sphere spectral lamp measurement system, 4π geometry, with an interior coating reflectance no less than 95 %. Temperature was measured at a position inside the sphere shielded from direct light. Relative humidity of 65% was measured at a position in the testing laboratory.

Spectral radiant flux measurements were made using spectroradiometer attached to the detector port of the integrating sphere. Each lamp was allowed to stabilise before measurements were made. The calibration of the integrating sphere spectroradiometer system is by the reference/standard lamps which are traceable to National Institute of Metrology P.R. CHINA. Lamp efficacy (lumens per watt) for each lamp model was then computed based on the luminous flux result. Electrical measurements including voltage, power and power factor were measured using YOKOGAWA - Digital Power Meter., model WT210.

Correction factor (self-absorption) has been considered when doing measurement.

Max Watts measurements

The product was equipped with appropriated light bulbs according to the manual of the product. It was allowed to warm up and stabilize thermally before any readings were taken. Then the lighting power consumption was tested. After that, an adjustable resistive load was used to test when the power limiter operates.

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RESULTS OF TESTS

Test Condition: 120V AC, 60Hz

Photometric and Electrical Measurements at 25°C – Integrating Sphere Method

Sample No. for Model: HEM006	Input Voltage (Vac)	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
S191218163-001	120.0	91.0	6.27	0.576	671.3	107.1
S191218163-002	120.0	93.0	6.47	0.578	671.6	103.8
S191218163-003	120.0	91.0	6.28	0.577	663.7	105.7
S191218163-004	120.0	89.0	6.17	0.576	663.6	107.5
S191218163-005	120.0	90.0	6.22	0.577	658.0	105.8
S191218163-006	120.0	91.0	6.28	0.576	667.8	106.3
S191218163-007	120.0	91.0	6.28	0.575	674.9	107.5
S191218163-008	120.0	91.0	6.30	0.577	768.6	122.0
S191218163-009	120.0	95.0	6.63	0.581	696.3	105.0
S191218163-010	120.0	94.0	6.54	0.579	684.4	104.6
Average	120.0	91.6	6.34	0.577	682.0	107.5

Minimum required efficacy in 10 C.F.R.§430.32(s)(6)

Lumens ¹	Minimum required efficacy (lm/W)
<120	50
≥120	(74.0-29.42 × 0.9983 ^{lumens})

Model No.	minimum required efficacy	Lighting efficacy ≥ minimum required efficacy in 10 C.F.R.§430.32(s)(6)	Verdict
HEM006	64.8	Yes	Pass

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Products Information

Model No. of Ceiling Fan	Number of Sockets for Light	Type of Socket	Total Power for Lighting (Watts)	Type of LED Lamp Packaged with Ceiling Fan Light Kit
EP24375	4	E12	4x6	ZHONGSHAN HENGERMEI LIGHTING CO., LTD. Model No.: HEM006 Rated Power:6W

Remark:

1. EP24376, EP24510US, EP24511US, EP24559US, EP24560US, EP24562US, EP24563US, EP24564US, EP24565US, EP24566US, EP24567US, EP24568US, EP24569US, EP24570US, EP24571US, EP24572US, EP24573US, EP24574US, EP24575US, EP24576US, EP24577US, EP24578US, EP24579US, EP24580US are identical to EP24375, just different finish color of product. The model EP24375 was subjected to all tests as representative.

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Product Picture



View of EP24375



View of LED Lamp HEM006

In Charge Of Tests:

Report Reviewed By

Duffe Zhong

J. Zhao

Duffe Zhong
Tester

Johnson Zhao
Reviewer

Attachment: None

***** End of Report *****