FCC Part 15, Subpart B, Class B

TEST REPORT

ARTIKA FOR LIVING INC.

Axel 1LT pendant

Test Model: PDT1-AX

Additional Model No.: PDT1-AX-XXXXXX ("XXXXXX" can be A to Z and/or 0

to 9 and/or blank (commercial code))

Prepared for : ARTIKA FOR LIVING INC.

Address : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing

Street, Bao'an District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test

sample

Number of tested samples : 1

Serial number : Prototype

Date of Test : December 2, 2020 ~ December 30, 2020

: December 2, 2020

Date of Report : December 30, 2020



FCC TEST REPORT FCC Part 15, Subpart B, Class B

Report Reference No.: LCS201123202AE

Date Of Issue: December 30, 2020

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing

Street, Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure...: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: : ARTIKA FOR LIVING INC.

Address : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5

Test Specification

Standard...... : FCC Part 15, Subpart B, Class B, ANSI C63.4 -2014

Test Report Form No......: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description.....: : Axel 1LT pendant

Test Model: PDT1-AX

Trade Mark: : Artika

Ratings : AC 120V 50/60Hz 0.4A

Result: : Positive

Compiled by:

Supervised by:

Approved by:

[h] i

Gavin Liang/ Manager

Lh Li/ Administrators

Jin Wang/ Technique principal

FCC -- TEST REPORT

Test Report No.: LCS201123202AE December 30, 2020 Date of issue

Test Model : PDT1-AX EUT.....: : Axel 1LT pendant Applicant.....:: : ARTIKA FOR LIVING INC. Address...... : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Telephone.....: : / Fax.....:: : / Manufacturer.....: : Zhongshan C5 Lighting Co Ltd Address...... : 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China. Telephone.....: : / Fax.....:: : / Factory.....: Zhongshan C5 Lighting Co Ltd Address...... : 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China. Telephone.....:: : / Fax.....: : /

Test Result according to the standards on page 6: Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	December 30, 2020	Initial Issue	Gavin Liang

TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1. Description of Standards and Results	6
2. GENERAL INFORMATION	
2.1. Description of Device (EUT)	
2.2. Description of Test Facility	
2.3. Statement of the Measurement Uncertainty	8
2.4. Measurement Uncertainty	
3. POWER LINE CONDUCTED EMISSION MEASUREMENT	9
3.1. Test Equipment	9
3.2.Block Diagram of Test Setup	
3.3.Test Standard	
3.4.EUT Configuration on Test	
3.5.Operating Condition of EUT	
3.6.Test Procedure	
4. RADIATED EMISSION MEASUREMENT	
4.1. Test Equipment	
4.2. Block Diagram of Test Setup	
4.3. Radiated Emission Limit (Class B)	
4.4. EUT Configuration on Measurement	
4.6. Test Procedure	
4.7. Radiated Emission Noise Measurement Result	
5. PHOTOGRAPH	
5.1.Photo of Power Line Conducted Measurement	
5.2. Photo of Radiated Measurement	
6. EXTERNAL AND INTERNAL PHOTOS OF THE FUT	

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION					
Description of Test Item	Standard	Limits	Results		
Conducted disturbance at mains terminals	FCC Part 15, Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS		
Radiated disturbance	FCC Part 15, Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS		
N/A is an abbreviation for Not Applicable.					

Test mode:				
Mode 1	Lighting ON	Record		
***Note: All test modes were tested, but we only recorded the worst case in this report.				

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Axel 1LT pendant

Trade Mark : Artika

Test Model : PDT1-AX

: PDT1-AX, PDT1-AX-XXXXXX ("XXXXXX" can be A to Z List Model No.

and/or 0 to 9 and/or blank (commercial code))

Model Declaration : All models are identical to each other except for model

name

Power Supply · AC 120V 50/60Hz 0.4A

Highest internal frequency (Fx)	Highest measured frequency	
Fx \leq 108 MHz	1 GHz	
108 MHz $<$ Fx \leq 500 MHz	2 GHz	
500 MHz $<$ Fx \leq 1 GHz	5 GHz	
Fx $>$ 1 GHz	5 × Fx up to a maximum of 6 GHz	

NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. NOTE 2 Fx is defined in EN 55032 Section 3.1.19.

Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz

2.2. Description of Test Facility

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

2.3. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power Disturbance	Level accuracy (30MHz to 300MHz)	± 2.90dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	N/A

- (1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
- (2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

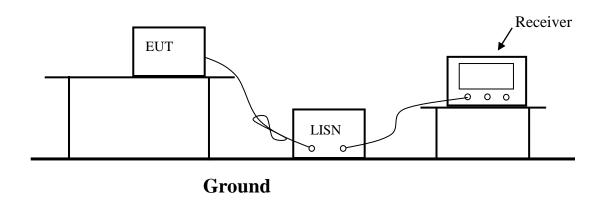
3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	EZ	EZ-EMC	/	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2021-06-21
3	Artificial Mains	R&S	ENV216	101288	2021-06-21
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2021-10-20

3.2. Block Diagram of Test Setup



3.3.Test Standard

Power Line Conducted Emission Limits (Class B)

F	Frequency		Limit (dBμV)	
(MHz)		Quasi-peak Level Average Level		
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.4.EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown on Section 3.2
- 3.5.2. Turn on the power of all equipments.
- 3.5.3.Let the EUT work in measuring mode (1) and measure it.

3.6.Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

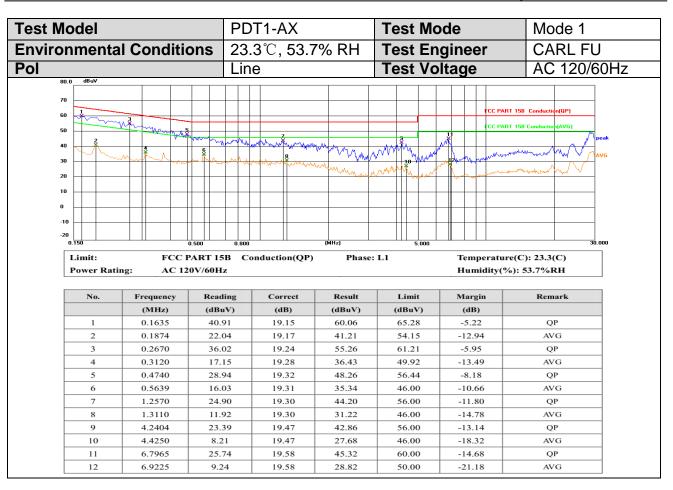
The bandwidth of the test receiver is set at 9kHz.

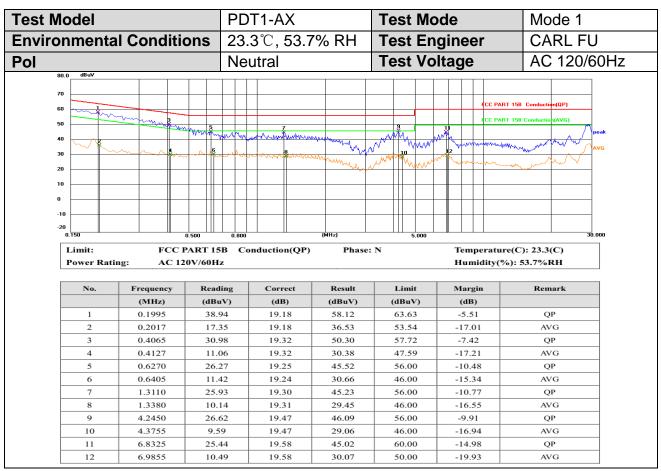
The frequency range from 150kHz to 30MHz is investigated

3.7.Test Results

PASS.

The test result please refer to the next page.





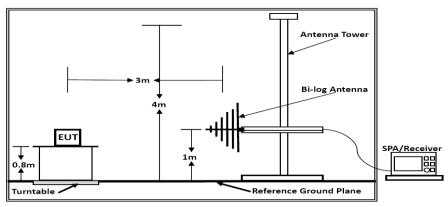
4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	EZ	EZ-EMC	/	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-12
3	Positioning Controller	MF	MF-7082	/	2021-06-12
4	By-log Antenna	SCHWARZBE CK	VULB9163	9163-470	2021-07-25
5	Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1925	2021-07-01
6	EMI Test Receiver	R&S	ESR 7	101181	2021-06-12
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-14
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-07-01
9	RF Cable-R03m	Jye Bao	RG142	CB021	2021-06-12
10	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2021-06-12

4.2. Block Diagram of Test Setup



Below 1GHz

Above 1GHz

4.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz	Meters	μV/m	dB(μV)/m
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Limits for Radiated Emission Above 1GHz				
Frequency	Distance	Peak Limit	Average Limit	
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)	
1000 ~ 3000	3	70	50	
3000 ~ 6000	3	74	54	
***Note: The lower limit applies at the transition frequency				

^{***}Note: The lower limit applies at the transition frequency.

4.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2.Let the EUT work in test mode (1) and measure it.

4.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 1000kHz.

The frequency range from 30MHz to 1000MHz is checked.

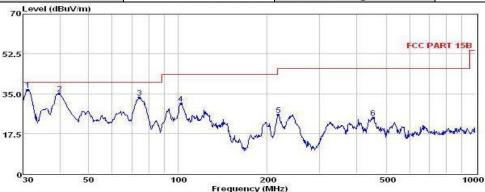
The bandwidth of the Spectrum analyzer is set at RBW/VBW=1MHz/3MHz.

The frequency range from 1GHz to the frequency which about 5th carrier harmonic or 6GHz is checked.

4.7. Radiated Emission Noise Measurement Result **PASS.**

The scanning waveforms please refer to the next page.

Test Model	PDT1-AX	Test Mode	Mode 1
Environmental Conditions	21.5℃, 51.9% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	CARL FU	Test Voltage	AC 120V/60Hz



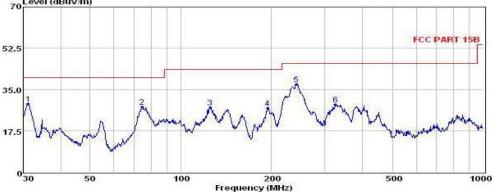
Env./Ins: Power Rating: pol:

21.5°C/51.9% AC 120V/60Hz VERTICAL

Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dВ	
31.18	54.06	0.39	12.32	36.82	40.00	-3.18	QP
39.85	51.23	0.38	13.54	35.17	40.00	-4.83	QP
74.14	54.96	0.54	7.95	33.37	40.00	-6.63	QP
102.36	47.24	0.60	12.95	30.68	43.50	-12.82	QP
218.31	44.21	0.88	11.15	25.86	46.00	-20.14	QP
455.91	38.47	1.39	15.58	24.45	46.00	-21.55	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that are 20dh below the afficial The emission that are 20db below the official limit are not reported

Test Model	PDT1-AX	Test Mode	Mode 1				
Environmental Conditions	21.5℃, 51.9% RH	Detector Function	Quasi-peak				
Pol	Horizontal	Distance	3m				
Test Engineer	CARL FU	Test Voltage	AC 120V/60Hz				
70 Level (dBuV/m)							



Env./Ins: Power Rating: pol:

> 1 2 3

6

21.5°C/51.9% AC 120V/60Hz HORIZONTAL

Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dВ	
31.18	46.10	0.39	12.32	28.86	40.00	-11.14	QP
74.40	49.28	0.54	7.90	27.64	40.00	-12.36	QP
125.01	46.99	0.71	9.70	27.22	43.50	-16.28	QP
194.45	46.14	0.76	10.56	27.12	43.50	-16.38	QP
241.68	54.45	1.01	12.09	37.13	46.00	-8.87	QP
325.60	44.57	1.04	13.55	28.56	46.00	-17.44	QP

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss

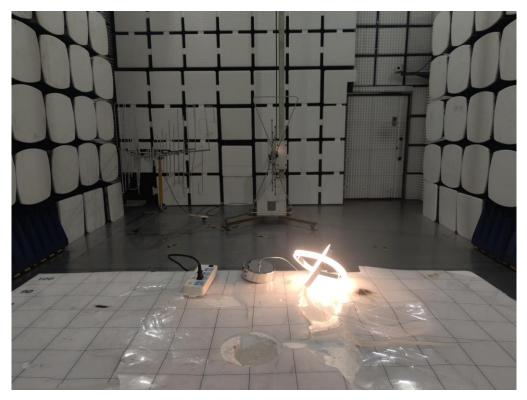
The emission that are 20db below the official limit are not reported

5. PHOTOGRAPH





5.2. Photo of Radiated Measurement



6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

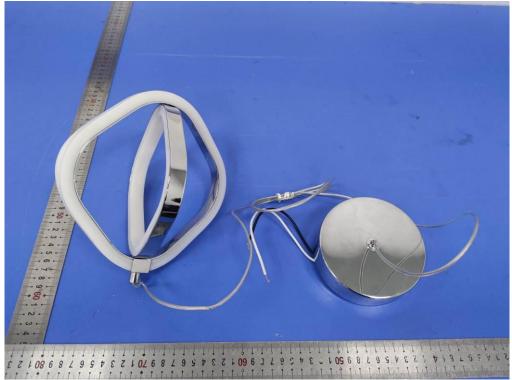


Fig.1

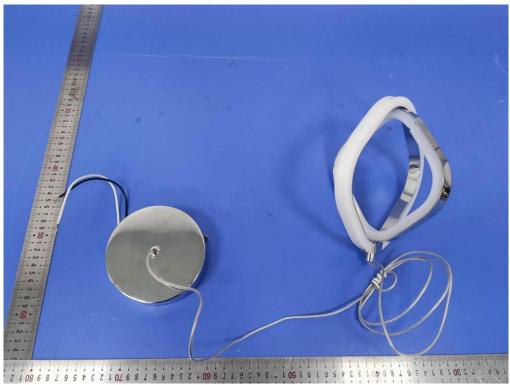


Fig.2

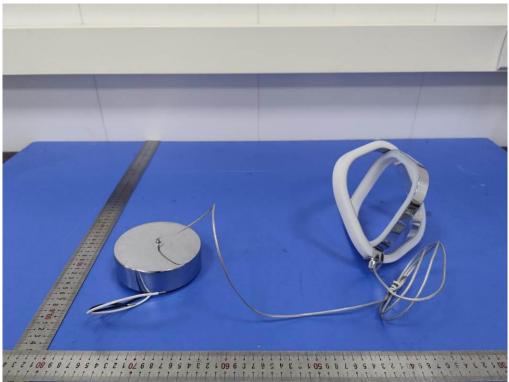


Fig.3

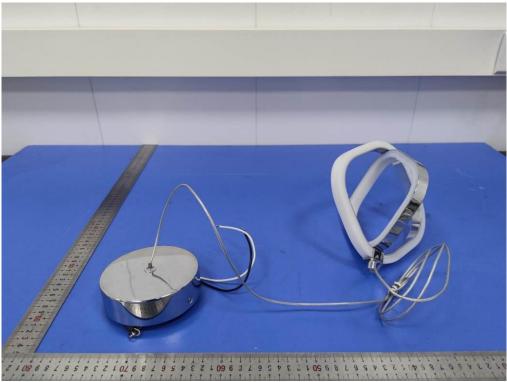


Fig.4



Fig.5

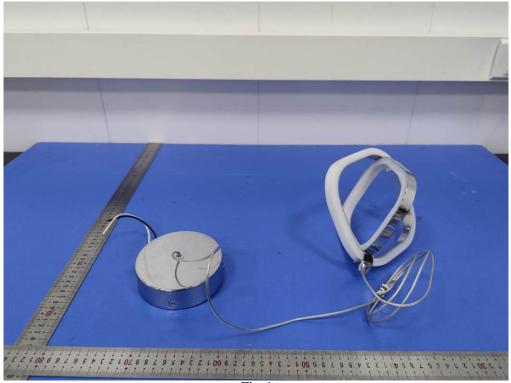


Fig.6



Fig.7



Fig.8

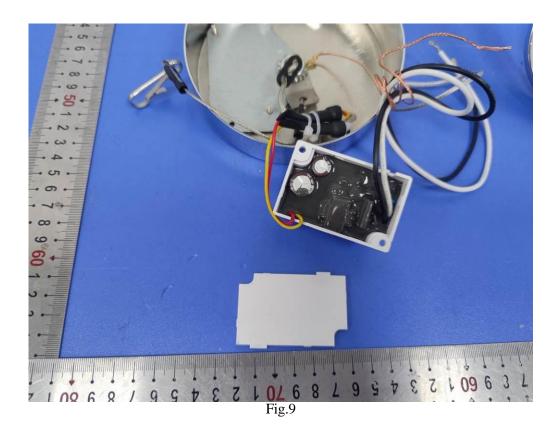




Fig.10



Fig.11

-----THE END OF TEST REPORT-----