

**ELECTROMAGNETIC EMISSIONS COMPLIANCE  
REPORT UNINTENTIONAL RADIATORS CERTIFICATION TO  
FCC PART 15 SUBPART B REQUIREMENT**

for

**LED Ceiling Light**

**Model No.: PLU01R-1528T-YX, 15FLPR-SPX-XXXXXX**  
(‘XY’, ‘XXXXXX’ are variables, please refer to page 6 for specific meanings)

**Trademark:**  

**FCC ID: 2AYFP-PLU01R-15**

**Report No.: EA22010093F00101**

**Issue Date: Jan. 10, 2022**

*Prepared for*

**ARTIKA FOR LIVING INC**

**1756 50th avenue, Lachine, Quebec, Canada, H8T 2V5**

*Prepared by*

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## TEST REPORT DESCRIPTION

Applicant : ARTIKA FOR LIVING INC  
 Manufacturer : ZHEJIANG TWINSEL ELECTRONIC TECHNOLOGY CO.,LTD  
 Factory : ZHEJIANG SHUANGYU ELECTRONIC TECHNOLOGY CO.,LTD  
 Trade Mark :   
 EUT : LED Ceiling Light  
 Model No. : PLU01R-1528T-YX, 15FLPR-SPX-XXXXXX  
 ('XY', 'XXXXXX' are variables, please refer to page 6 for specific meanings)  
 Power Supply : AC 120V/60Hz

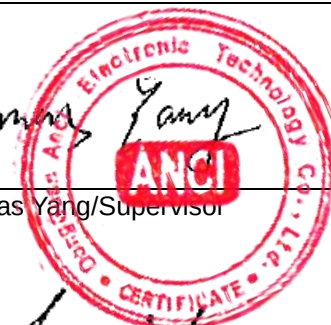
### Measurement Procedure Used:

CFR 47, FCC Part 15 Subpart B  
 ANSI C63.4-2014

The device described above is tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.

Date of Test : Jan. 07, 2022 to Jan. 08, 2022  
 Prepared by :   
 Tomas Yang/Supervisor  
 Approved & Authorized Signer :   
 Alan He/Manager



### Modified Information

| Version | Report No.       | Revision Data | Summary          |
|---------|------------------|---------------|------------------|
| Ver.1.0 | EA20010093F00101 | /             | Original Version |

## 1. SUMMARY OF TEST RESULTS

| EMISSION                              |                                                    |         |
|---------------------------------------|----------------------------------------------------|---------|
| Description of Test Item              | Standard & Limits                                  | Results |
| Conducted Emission at Mains Terminals | FCC Part 15, Subpart B, Class B<br>ANSI C63.4-2014 | Pass    |
| Radiated Emission                     | FCC Part 15, Subpart B, Class B<br>ANSI C63.4-2014 | Pass    |

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : LED Ceiling Light

Model Number : PLU01R-1528T-YX, 15FLPR-SPX-XXXXXX  
Please refer to the following model difference table

Test Model : PLU01R-1528T-850

Test Voltage : AC 120V/60Hz

Applicant : ARTIKA FOR LIVING INC

Address : 1756 50th avenue, Lachine, Quebec, Canada, H8T 2V5

Manufacturer : ZHEJIANG TWINSEL ELECTRONIC TECHNOLOGY CO.,LTD

Address : Tashan Industry Zone, Meilin Street, Ninghai County, Ningbo City, 315609, Zhejiang, P.R.China

Date of Received : Jan. 07, 2022

Date of Test : Jan. 07, 2022 to Jan. 08, 2022

#### Model difference table:

| Size    | Model           | Customer model    | Number of lamp beads | Input           | Power | PCB Model          | CCT                     |
|---------|-----------------|-------------------|----------------------|-----------------|-------|--------------------|-------------------------|
| 15 inch | PLU01R-1528T-YX | 15FLPR-SPX-XXXXXX | 85                   | 120/60Hz, 215mA | 24W   | SY-2016008-F-REV 8 | 3000K/3500K/4000K/5000K |

Note 1 : YX in the model designation could be any numbers, where each Y could be one number to indicate Color Rendering Index (like 8 represents CRI 80, 9 represents CRI 90), each X could be two numbers or two number ranges to indicate color temperature (like 30 represents 3000K, 50 represents 5000K).

Note 2: XXXXXX in the model designation could be any numbers or letters, which indicates customer code.

Note 3: all models have the same circuit principle, except that the secondary components of the circuit are different. We choose to test the maximum color temperature model.

### 2.2. Input / Output Ports

| Port # | Name          | Type* | Cable Max. >3m | Cable Shielded | Comments |
|--------|---------------|-------|----------------|----------------|----------|
| 0      | Enclosure     | N/E   | --             | --             | None     |
| 1      | AC Input port | AC    | --             | --             | 1 Port   |
| 2      | USB Port      | I/O   | --             | --             | None     |
| 3      | Aux Port      | I/O   | --             | --             | None     |
| 4      | Earphone      | I/O   | --             | --             | None     |

\* Note: Use abbreviations:  
AC= AC Power Port

DC= DC Power Port

N/E= Non-Electrical

I/O= Signal Input or Output Port (Not Involved in Process Control)

TP= Telecommunication Ports

### 2.3. Independent Operation Modes

A. On

B. Off

### 2.4. Test Manner

| Test Items         | Test Voltage | Operation Modes | Worst case |
|--------------------|--------------|-----------------|------------|
| Conducted Emission | AC 120V/60Hz | Mode A          | On         |
| Radiated Emission  | AC 120V/60Hz | Mode A          | On         |

## 2.5. Description of Test Facility

|                  |                                                                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Description |                                                                                                                                                                                                                                                         |
| EMC Lab.         | : Accredited by CNAS, 2017.06.26<br>The certificate is valid until 2022.10.28<br>The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)<br>The Certificate Registration Number is L0468. |
|                  | Accredited by A2LA, 2018.03.15<br>The Certificate Number is 4422.01.                                                                                                                                                                                    |
| Name of Firm     | : Dong Guan Anci Electronic Technology Co., Ltd.                                                                                                                                                                                                        |
| Site Location    | : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China.                                                                                                                                                                       |

## 2.6. Test Software

|                    |                       |
|--------------------|-----------------------|
| Item               | Software              |
| Conducted Emission | : EZ-EMC Ver:ANCI-3A1 |

Radiated Emission : EZ-EMC Ver:ANCI-3A1

## 2.7. Description of Support Device

N/A

## 2.8. Measurement Uncertainty

|                                            |                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------|
| Test Item                                  | Uncertainty                                                           |
| Conducted Emission Uncertainty             | : 2.96dB(9k~150kHz Conduction 1#)<br>2.74dB(150k-30MHz Conduction 1#) |
| Radiated Emission Uncertainty (3m Chamber) | : 3.78dB (30M~1GHz Polarize: H)<br>4.27dB (30M~1GHz Polarize: V)      |

### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Power Line Conducted Emission Measurement

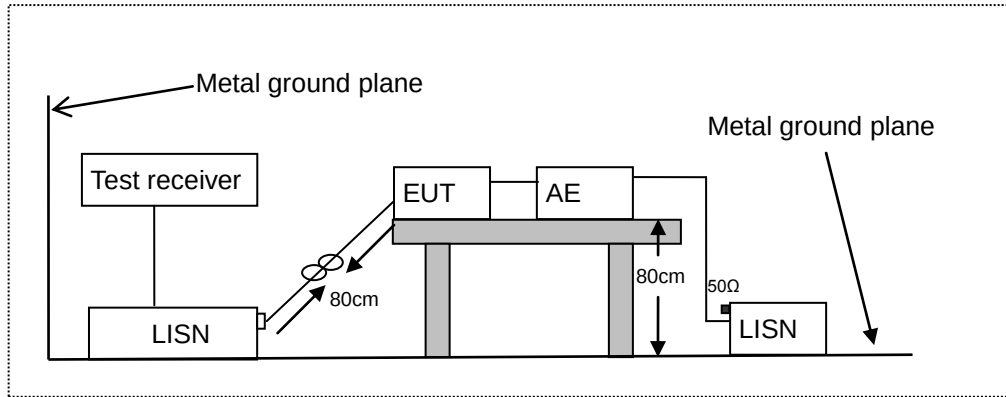
| Item | EQUIPMENT TYPE    | MFR           | MODEL NUMBER | SERIAL NUMBER | Calibrated until |
|------|-------------------|---------------|--------------|---------------|------------------|
| 1.   | L.I.S.N           | SCHWARZBECK   | NSLK 8127    | 8127-669      | 2022-05-22       |
| 2.   | 10 db attenuator  | JFW           | 50FP-010-H4  | 4360846-427-1 | 2022-05-22       |
| 3.   | RF Cable          | N/A           | N/A          | 2#            | 2022-05-22       |
| 4.   | EMI Test Receiver | ROHDE&SCHWARZ | ESCI         | 101358        | 2022-05-22       |

#### 3.2. For Radiated Emission Measurement

| Item | Equipment                | Manufacturer       | Model No.              | Serial No.   | Calibrated until |
|------|--------------------------|--------------------|------------------------|--------------|------------------|
| 5.   | EMI Test Receiver        | Rohde & Schwarz    | ESPI                   | 100502       | 2022-11-19       |
| 6.   | Pre-Amplifier            | HP                 | 8447D                  | 2727A06172   | 2022-05-22       |
| 7.   | Bilog Antenna            | Schwarzbeck        | VULB9163               | VULB9163-588 | 2022-05-22       |
| 8.   | Loop Antenna             | Schwarzbeck        | FMZB 1516              | 1516-141     | 2022-05-22       |
| 9.   | RF Cable                 | Gigalink Microwave | ZT40-2.92J-2.92 J-2m   | N/A          | 2022-05-22       |
| 10.  | RF Cable                 | Gigalink Microwave | ZT40-2.92J-2.92 J-0.3m | N/A          | 2022-05-22       |
| 11.  | RF Cable                 | N/A                | N/A                    | 6#           | 2022-05-22       |
| 12.  | 3m Semi-anechoic Chamber | chengyu            | 9m*6m*6m               | N/A          | 2022-05-22       |
| 13.  | Test Software            | Farad              | EZ-EMC Ver:ANCI-3A1    | N/A          | N/A              |

## 4. POWER LINE CONDUCTED EMISSION MEASUREMENT

### 4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment

EUT: Equipment under test

### 4.2. Limits

FCC Part 15, Subpart B, Class B

| Frequency<br>(MHz) | Limit (dB $\mu$ V) |               |
|--------------------|--------------------|---------------|
|                    | 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.

### 4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to

measure the conducted emissions values.

Test results were obtained from the following equation:

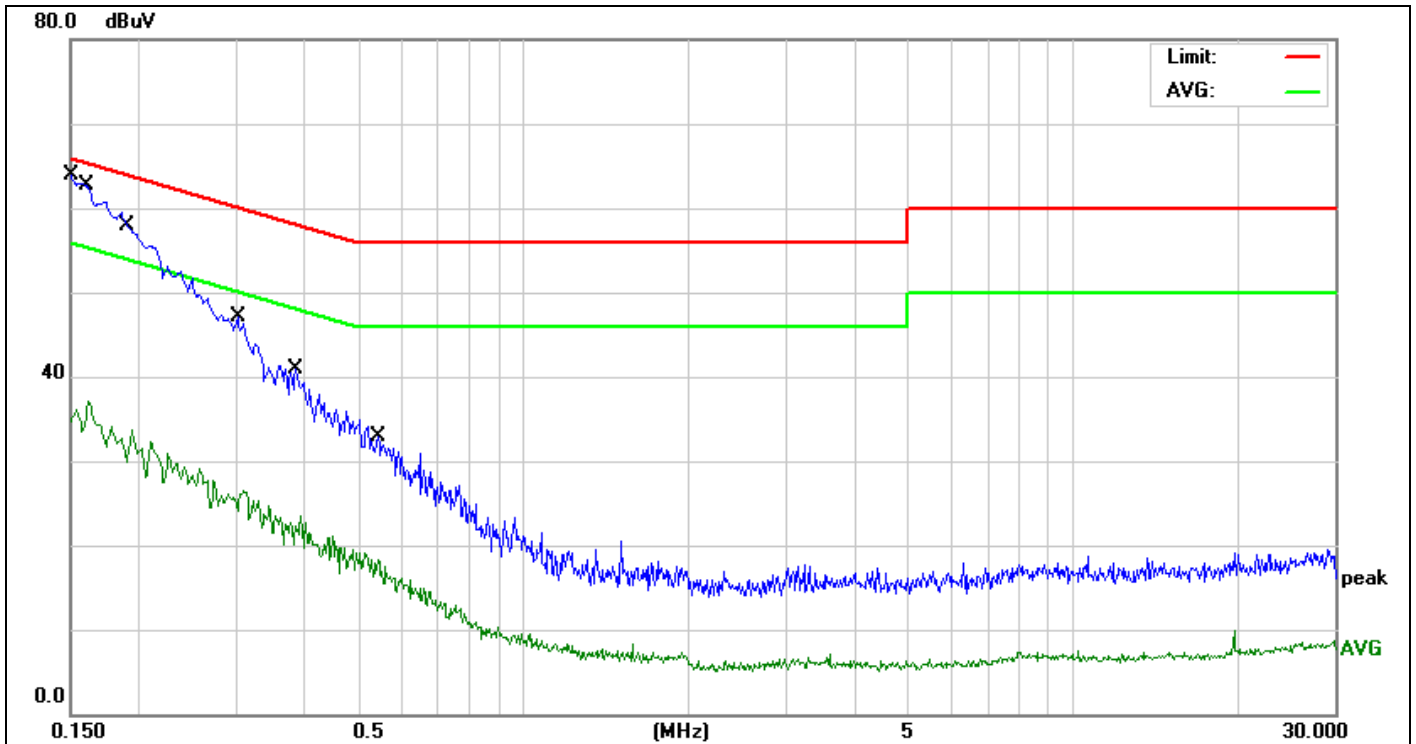
Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

#### 4.4. Measuring Results

**PASS.**

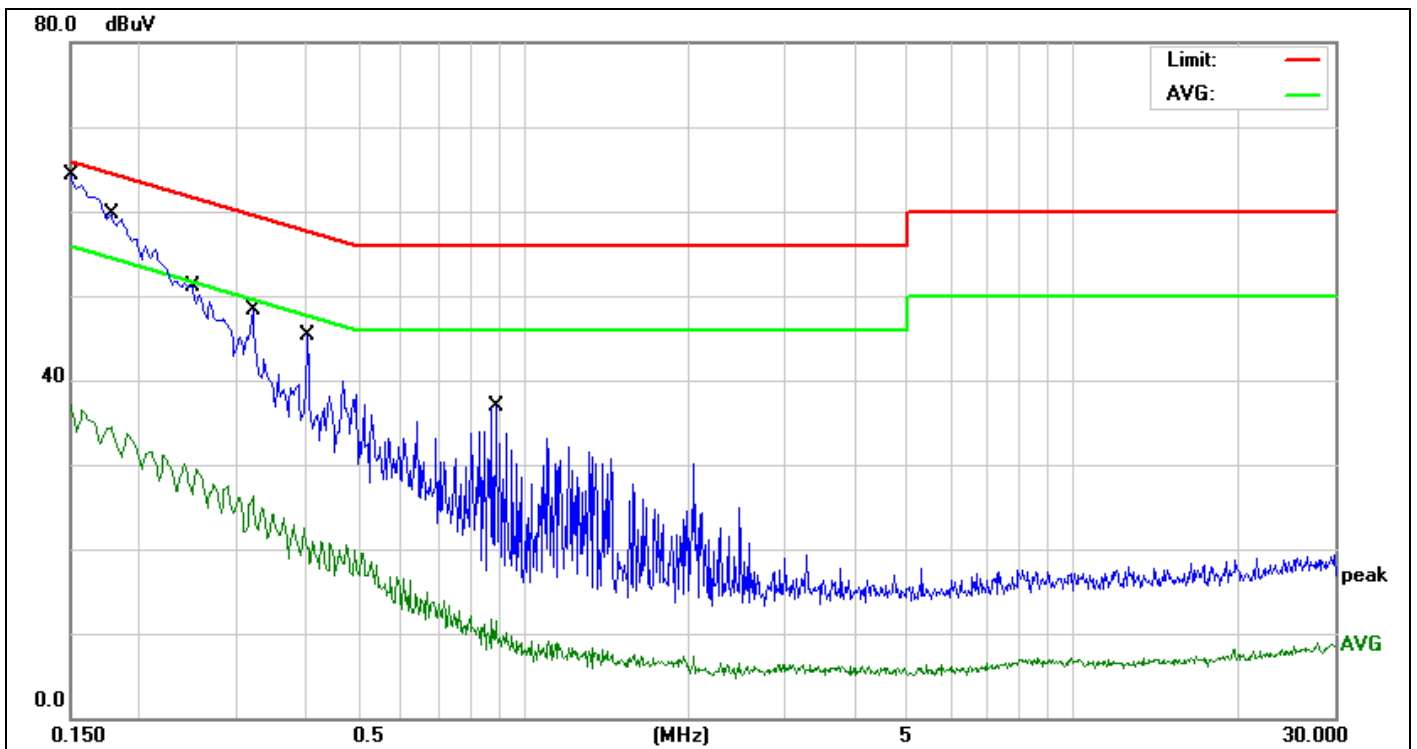
Please refer to following pages.



|        |                             |                |              |                 |       |
|--------|-----------------------------|----------------|--------------|-----------------|-------|
| Site:  | 843                         | Phase:         | L1           | Temperature(C): | 26(C) |
| Limit: | FCC PART 15B Conduction(QP) |                |              | Humidity(%):    | 60%   |
| EUT:   | LED Ceiling Light           | Test Time:     | 2022-01-08   |                 |       |
| M/N.:  | PLU01R-1528T-850            | Power Rating:  | AC 120V/60Hz |                 |       |
| Mode:  | ON                          | Test Engineer: | Jack         |                 |       |
| Note:  |                             |                |              |                 |       |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-----------|----------|---------|
| 1 * | 0.1500          | 46.93               | 10.30       | 57.23              | 65.99        | -8.76     | QP       |         |
| 2   | 0.1500          | 25.05               | 10.30       | 35.35              | 55.99        | -20.64    | AVG      |         |
| 3   | 0.1620          | 45.04               | 10.30       | 55.34              | 65.36        | -10.02    | QP       |         |
| 4   | 0.1620          | 23.86               | 10.30       | 34.16              | 55.36        | -21.20    | AVG      |         |
| 5   | 0.1924          | 40.27               | 10.30       | 50.57              | 63.93        | -13.36    | QP       |         |
| 6   | 0.1924          | 21.05               | 10.30       | 31.35              | 53.93        | -22.58    | AVG      |         |
| 7   | 0.3020          | 28.22               | 10.33       | 38.55              | 60.19        | -21.64    | QP       |         |
| 8   | 0.3020          | 14.28               | 10.33       | 24.61              | 50.19        | -25.58    | AVG      |         |
| 9   | 0.3860          | 22.59               | 10.29       | 32.88              | 58.15        | -25.27    | QP       |         |
| 10  | 0.3860          | 10.68               | 10.29       | 20.97              | 48.15        | -27.18    | AVG      |         |
| 11  | 0.5460          | 16.47               | 10.35       | 26.82              | 56.00        | -29.18    | QP       |         |
| 12  | 0.5460          | 5.85                | 10.35       | 16.20              | 46.00        | -29.80    | AVG      |         |

\*:Maximum data x:Over limit !:over margin



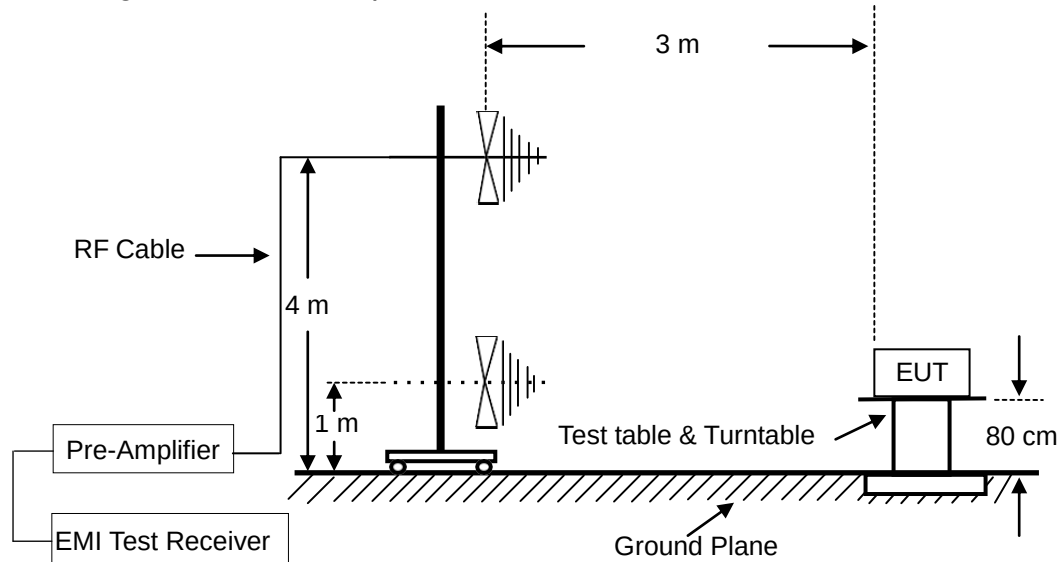
|        |                             |                |      |                 |       |
|--------|-----------------------------|----------------|------|-----------------|-------|
| Site:  | 843                         | Phase:         | N    | Temperature(C): | 26(C) |
| Limit: | FCC PART 15B Conduction(QP) | Test Time:     |      | Humidity(%):    | 60%   |
| EUT:   | LED Ceiling Light           | Power Rating:  |      | AC 120V/60Hz    |       |
| M/N.:  | PLU01R-1528T-850            | Test Engineer: | Jack |                 |       |
| Mode:  | ON                          |                |      |                 |       |
| Note:  |                             |                |      |                 |       |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-----------|----------|---------|
| 1 * | 0.1500          | 46.76               | 10.30       | 57.06              | 65.99        | -8.93     | QP       |         |
| 2   | 0.1500          | 25.12               | 10.30       | 35.42              | 55.99        | -20.57    | AVG      |         |
| 3   | 0.1780          | 42.18               | 10.30       | 52.48              | 64.57        | -12.09    | QP       |         |
| 4   | 0.1780          | 22.06               | 10.30       | 32.36              | 54.57        | -22.21    | AVG      |         |
| 5   | 0.2500          | 33.08               | 10.31       | 43.39              | 61.75        | -18.36    | QP       |         |
| 6   | 0.2500          | 17.30               | 10.31       | 27.61              | 51.75        | -24.14    | AVG      |         |
| 7   | 0.3220          | 26.46               | 10.32       | 36.78              | 59.65        | -22.87    | QP       |         |
| 8   | 0.3220          | 13.69               | 10.32       | 24.01              | 49.65        | -25.64    | AVG      |         |
| 9   | 0.4060          | 21.77               | 10.28       | 32.05              | 57.73        | -25.68    | QP       |         |
| 10  | 0.4060          | 9.97                | 10.28       | 20.25              | 47.73        | -27.48    | AVG      |         |
| 11  | 0.8940          | 8.91                | 10.41       | 19.32              | 56.00        | -36.68    | QP       |         |
| 12  | 0.8940          | -0.94               | 10.41       | 9.47               | 46.00        | -36.53    | AVG      |         |

\*:Maximum data x:Over limit !:over margin

## 5. RADIATED EMISSION MEASUREMENT (UP TO 1GHz)

### 5.1. Block Diagram of Test Setup



### 5.2. Radiated Limit

FCC Part 15, Subpart B, Class B

| Frequency<br>MHz | Distance<br>Meters | Field Strengths Limit  |                                   |
|------------------|--------------------|------------------------|-----------------------------------|
|                  |                    | $\mu\text{V}/\text{m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 30 ~ 88          | 3                  | 100                    | 40.0                              |
| 88 ~ 216         | 3                  | 150                    | 43.5                              |
| 216 ~ 960        | 3                  | 200                    | 46.0                              |
| 960 ~ 1000       | 3                  | 500                    | 54.0                              |

### 5.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

Test results were obtained from the following equation:

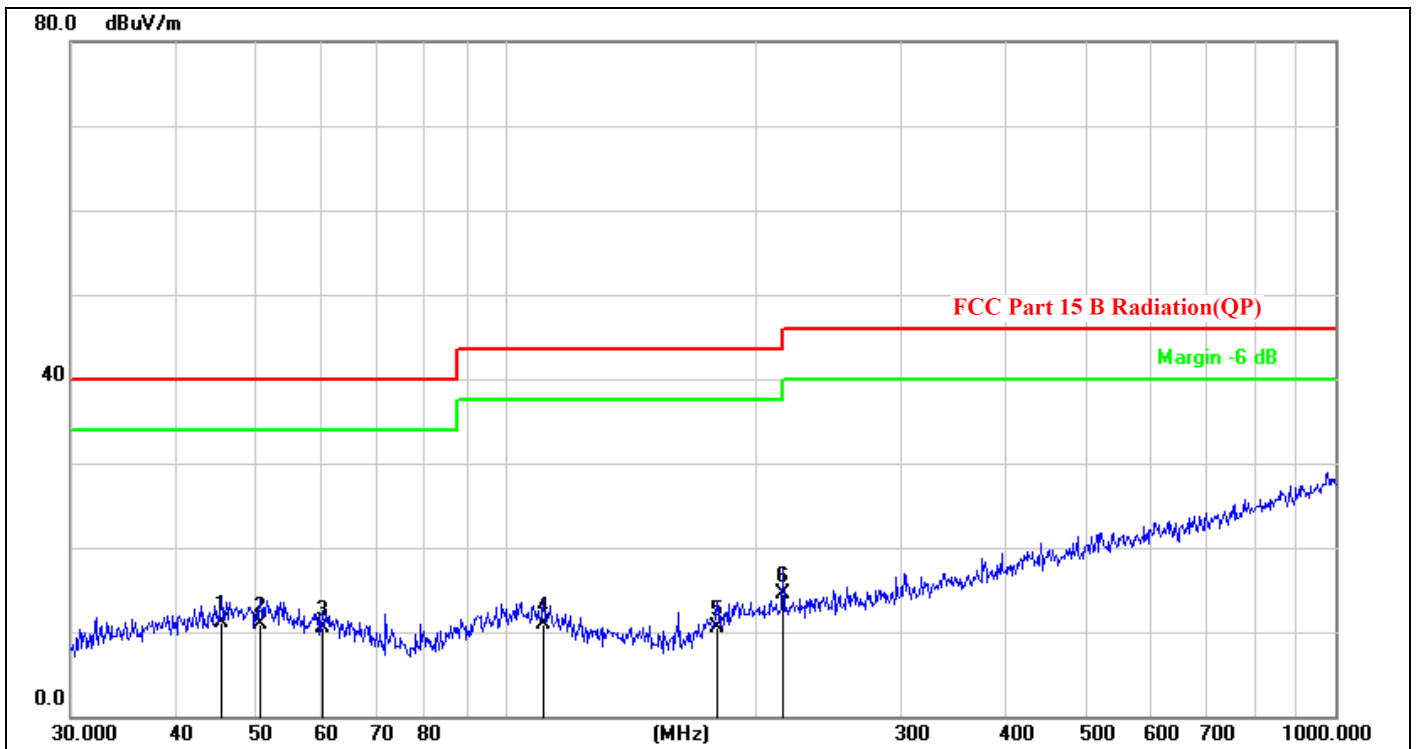
Emission level (dB $\mu$ V/m) = Antenna Factor - Amp Factor + Cable Loss + Reading

Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

#### 5.4. Measuring Results

**PASS.**

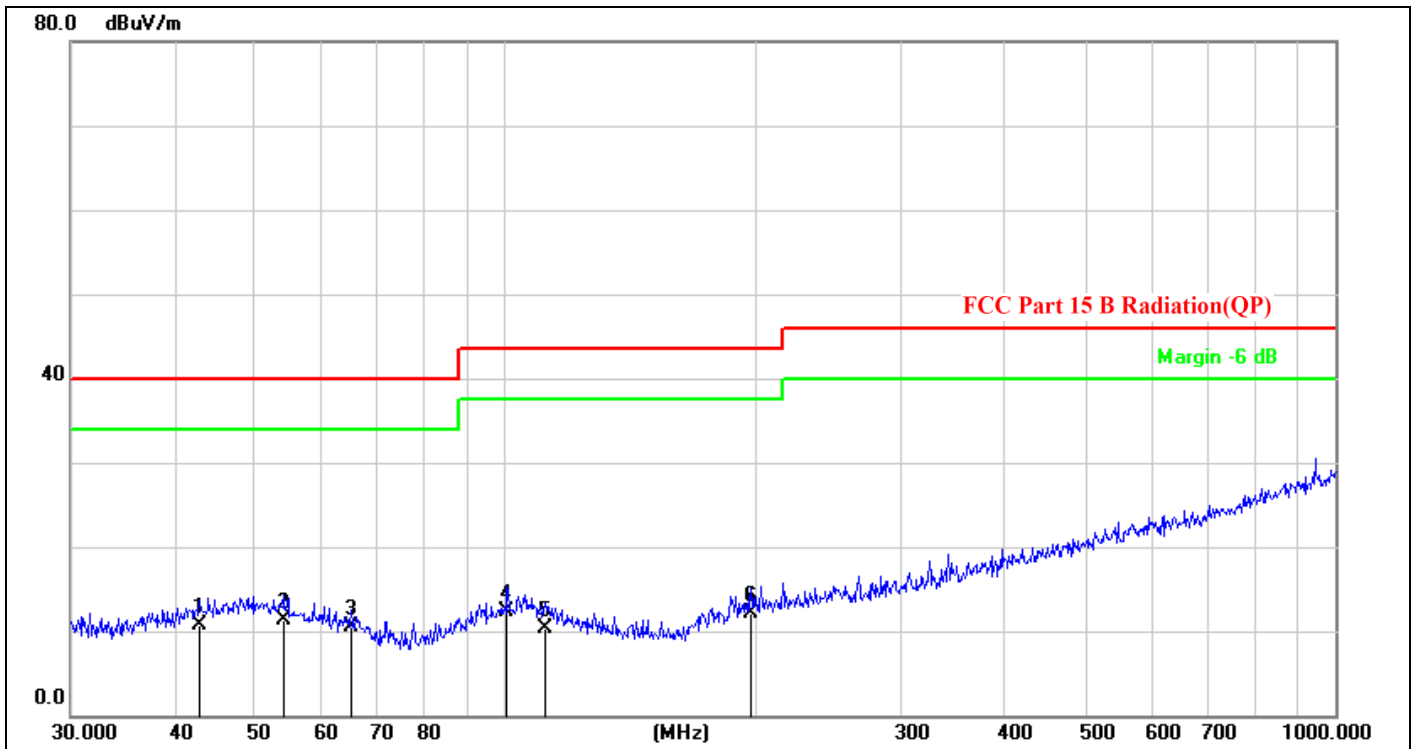
Please refer to following pages.



|        |                             |                     |                      |
|--------|-----------------------------|---------------------|----------------------|
| Site:  | 843.3                       | Antenna::Horizontal | Temperature(C):26(C) |
| Limit: | FCC Part 15 B Radiation(QP) |                     | Humidity(%):60%      |
| EUT:   | LED Ceiling Light           | Test Time:          | 2022-01-08           |
| M/N.:  | PLU01R-1528T-850            | Power Rating:       | AC 120V/60Hz         |
| Mode:  | ON                          | Test Engineer:      | Bast                 |
| Note:  |                             |                     |                      |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-----------|----------|---------|
| 1 * | 45.5348         | 23.41               | -12.31      | 11.10              | 40.00        | -28.90    | QP       |         |
| 2   | 50.7637         | 22.67               | -11.76      | 10.91              | 40.00        | -29.09    | QP       |         |
| 3   | 60.2801         | 23.58               | -13.17      | 10.41              | 40.00        | -29.59    | QP       |         |
| 4   | 111.3468        | 22.84               | -11.97      | 10.87              | 43.50        | -32.63    | QP       |         |
| 5   | 180.0165        | 22.82               | -12.25      | 10.57              | 43.50        | -32.93    | QP       |         |
| 6   | 216.0240        | 25.22               | -10.70      | 14.52              | 46.00        | -31.48    | QP       |         |

\*:Maximum data x:Over limit !:over margin



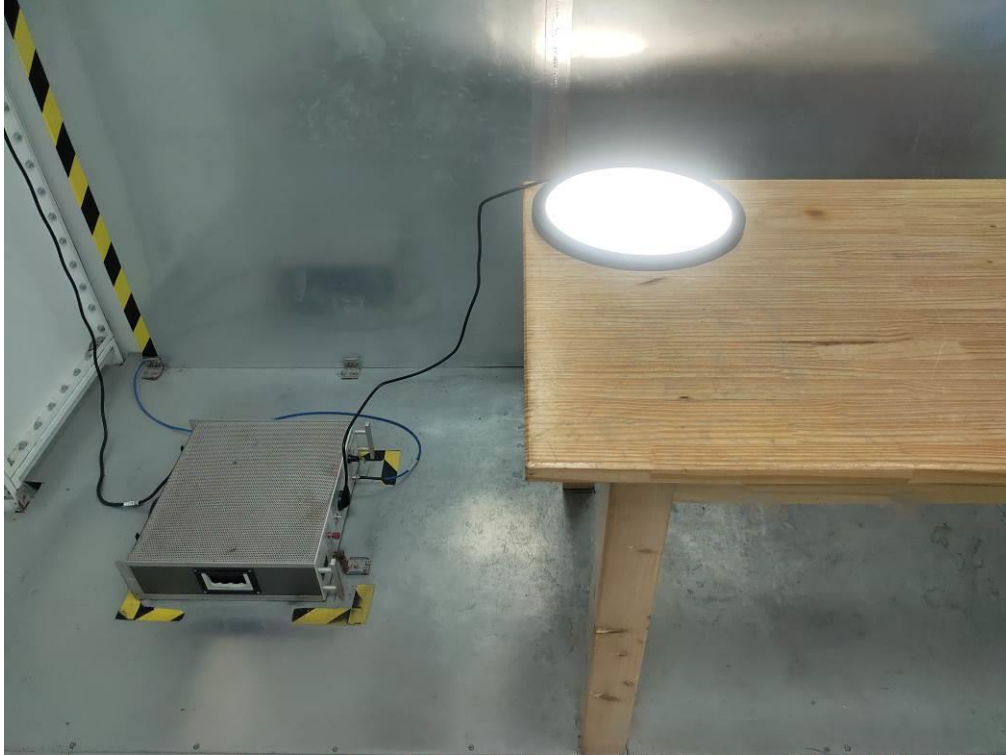
|        |                             |                   |                      |
|--------|-----------------------------|-------------------|----------------------|
| Site:  | 843.3                       | Antenna::Vertical | Temperature(C):26(C) |
| Limit: | FCC Part 15 B Radiation(QP) |                   | Humidity(%):60%      |
| EUT:   | LED Ceiling Light           | Test Time:        | 2022-01-08           |
| M/N.:  | PLU01R-1528T-850            | Power Rating:     | AC 120V/60Hz         |
| Mode:  | ON                          | Test Engineer:    | Bast                 |
| Note:  |                             |                   |                      |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-----------|----------|---------|
| 1   | 42.8998         | 23.33               | -12.70      | 10.63              | 40.00        | -29.37    | QP       |         |
| 2   | 54.0711         | 23.50               | -12.25      | 11.25              | 40.00        | -28.75    | QP       |         |
| 3   | 65.3432         | 24.69               | -14.11      | 10.58              | 40.00        | -29.42    | QP       |         |
| 4 * | 100.5806        | 24.05               | -11.77      | 12.28              | 43.50        | -31.22    | QP       |         |
| 5   | 111.7380        | 22.40               | -12.04      | 10.36              | 43.50        | -33.14    | QP       |         |
| 6   | 197.8928        | 23.16               | -11.09      | 12.07              | 43.50        | -31.43    | QP       |         |

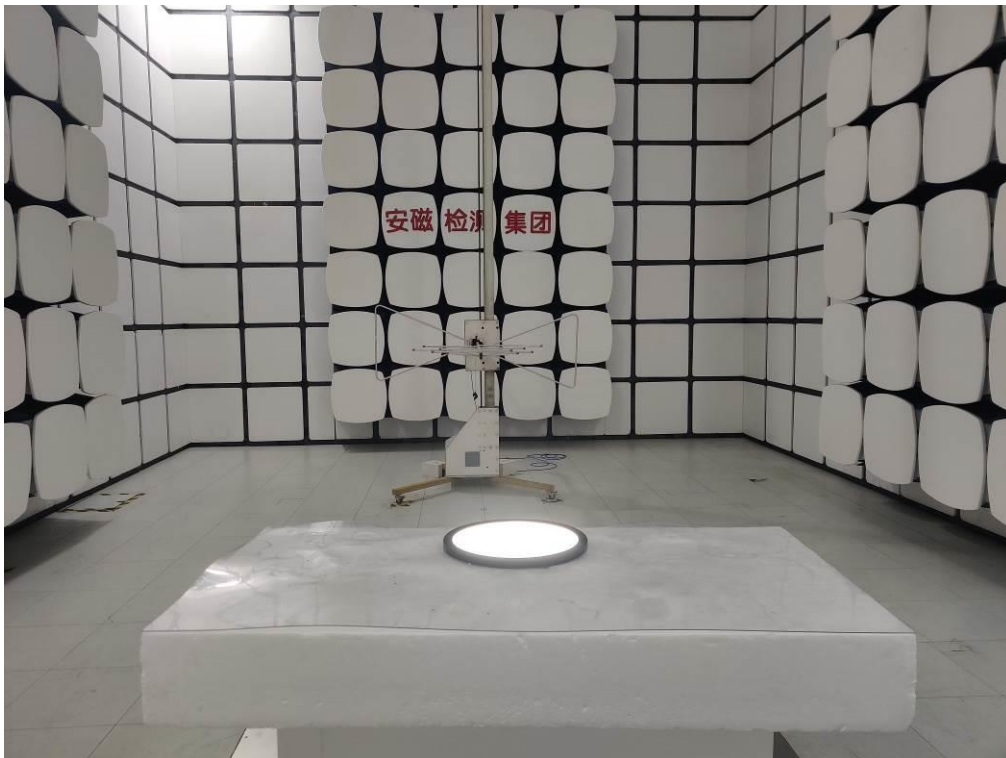
\*:Maximum data x:Over limit !:over margin

## 6. PHOTOGRAPHS

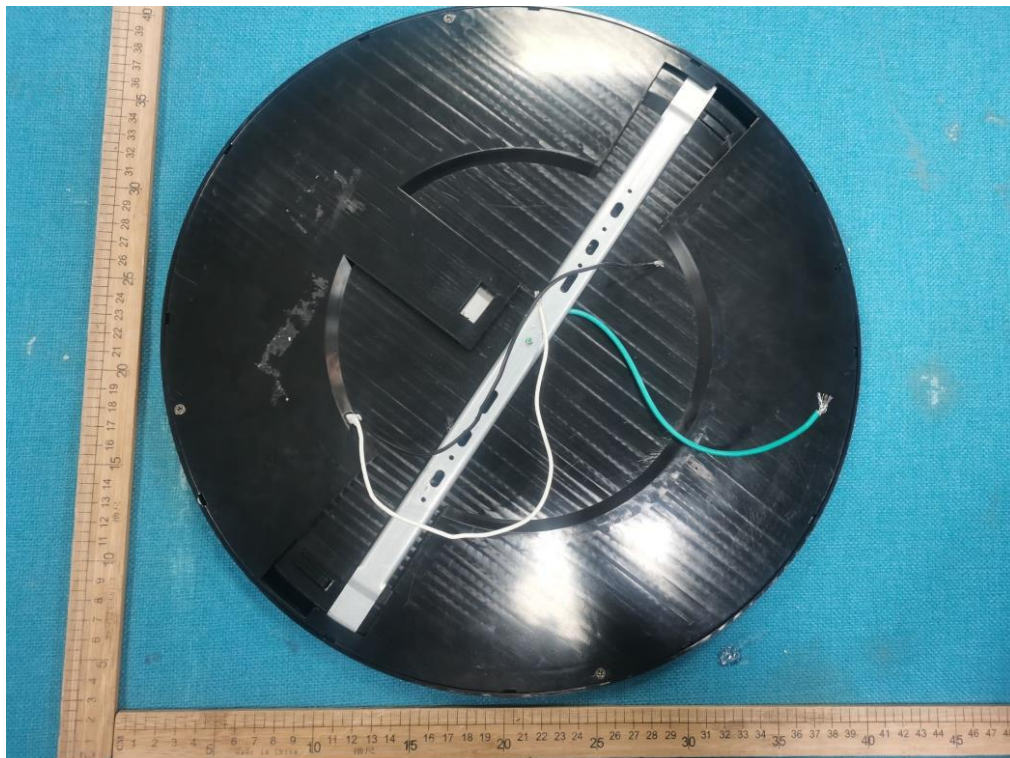
### 6.1. Photos of Conducted Emission Measurement

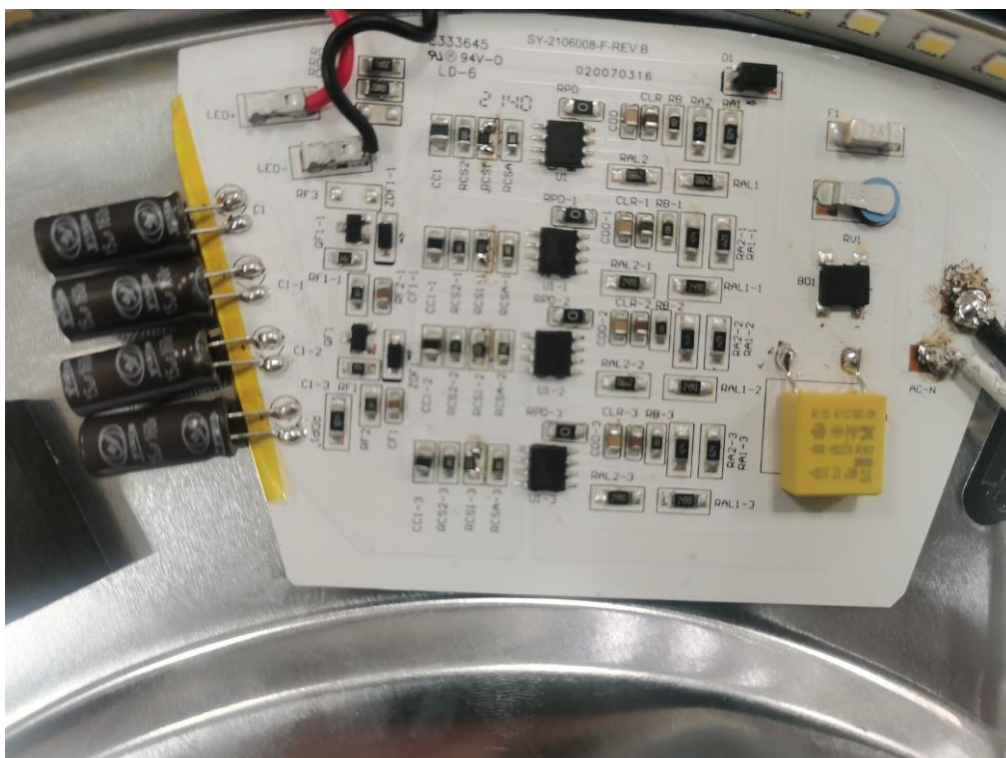
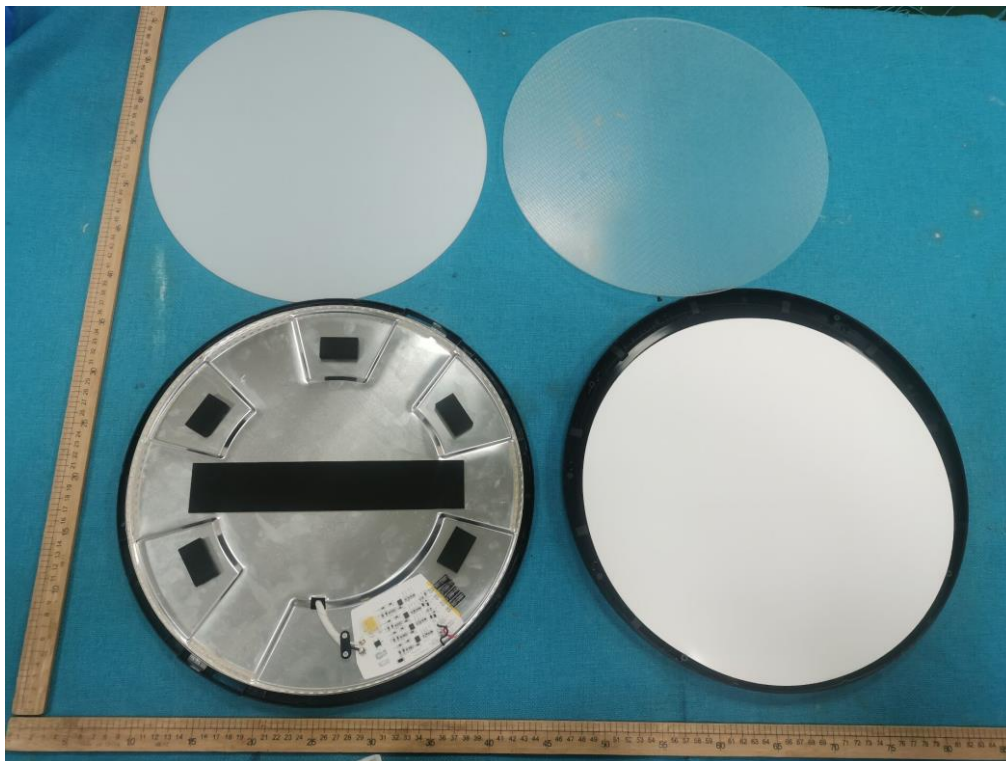


### 6.2. Photos of Radiation Emission Measurement



## APPENDIX A: Photos of EUT







-----The end-----