

# Test report

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Test items           | Safety test (grounding, voltage resistance, insulation)                                                        |
| Test object          | LWW-WZB-W55-L12-RDM                                                                                            |
| Purpose of detection | Verify and confirm whether the safety performance of LWW-WZB-W55-L12-RDM lamps meets the standard requirements |
| Test time            | From 2024-11-14 until: 2024-11-14                                                                              |

Testing equipment: withstand voltage tester, grounding tester, insulation tester, multimeter, pressure meter, connecting line, power supply

- Experimental methods and steps:
1. Measure whether the lamp body is safe and normal, and light the lamp to confirm
  2. Use the grounding tester to measure whether the value is within the range of standard requirements
  3. Use the voltage tester to measure whether the value is within the standard requirement range
  4. Use the insulation tester to measure whether the value is within the standard requirement range
  5. Confirm the lamp after the test, light the confirmation function (R-G-B-W- full light)

Test results: LWW-WZB-W55-L12-RDM lamps did not appear unqualified in the safety test (grounding, voltage resistance, insulation), and the function is normal. This experimental conclusion is only responsible for the sample.

Test standard: document requirements

When the set time is reached, the instrument will automatically stop testing, indicating that the product has passed the test.

5, in the above test, if the instrument has a "too large grounding resistance" alarm signal occurs, indicating that the resistance of the product under test does not meet the requirements, it should be marked for repair, if you need to stop the test during the test, press the "reset" button.

2. Precautions:

1. The operator must be familiar with the operating procedure of the test instrument.
2. During the whole test process, other buttons can not be adjusted at will.
3. The test current is greater than 30A will alarm.
- 4, after the test is completed, it must be in the "reset" state, before you can switch off the cable.
- 5, the short-circuit sheet on the current output terminal is used to set the alarm resistance, and it is taken off when measuring.

3. Operation check content and method:

Prepare a resistance box with a parameter of 0.1230A

1, the ground resistance tester should be preheated for fifteen minutes before each use, and the device function should be checked before starting to use.

2, the ground resistance test range is set to 0.12, adjust the test current to 30A, the ground end of the circuit end of the inspection box, L, N line are respectively connected to the inspection box through the end and NG end, the judgment results are as follows:

| Ports       | Test current | Phenomena     | Determination of disqualification | Remarks                  |  |
|-------------|--------------|---------------|-----------------------------------|--------------------------|--|
| Through end | 30A          | Alarm         |                                   | Trace the tested product |  |
|             |              | Do not alarm  | Qualified                         |                          |  |
| NG end      |              | Give an alarm | Qualified                         |                          |  |
|             |              | Do not alarm  | Disqualifying                     | Trace the tested product |  |

2 Use the dug out test location big auto inspection book to show that it will compensate the letter ㊦ plus the new messenger

### Third, precautions

1, before using the insulation resistance tester, you should carefully read the instruction manual of the tester to understand the performance characteristics and measurement of the tester

### Operation methods and safety precautions, etc

2, in ensuring that the equipment to be tested has been powered off and discharged to ensure the safety and accuracy of the test 3, in the measurement, the insulation resistance tester must be flat, and at a constant speed to turn the handle, until a stable value before reading the insulation resistance value

4, for the equipment with large capacity, after the measurement is completed, the equipment under test must be discharged to the ground remarks (through the above steps and precautions, you can ensure the accuracy and safety of the insulation resistance test, so as to determine whether the insulation condition of the equipment is good)

### Four, insulation standards

Insulation resistance value >2M $\Omega$  insulation thickness value >0.6mm (general)

|                |                                                                                                                                                                                   |                                          |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Level 0 lamp   | Functional insulation only as a method of electric shock protection,<br>No protection methods such as grounding                                                                   | Withstand voltage value (2U+1000V) above |
| Level 1 light  | In addition to the functional insulation for the electric shock protection method, but also accept other protective methods such as grounding lamps                               | Withstand voltage value (2U+1750V) above |
| Level 2 lights | Lamps with double insulation or reinforced insulation as a method of electric shock protection have insulation results that do not depend on grounding or installation conditions | Withstand voltage value (4U+2750V) above |
| Level 3 lights | Lamps that use ultra-Low Safety Voltage (SELV) as protection against electric shock                                                                                               | No resistance voltage is required        |

2, check the instrument friend failure, should immediately stop use, since no safety day drop power, and then the power plug, open notice elongate or engineering department overhaul. During the test, in addition to the designated technical management personnel, the rest of the people shall not adjust the instrument in disorder!! iii. Operation inspection contents and methods:

1) Point check box parameters 1500V 5mA

Clamp the grounding end of the voltage gauge to the return end of the point check box, and then connect the output end of the voltage gauge to the passing end and the electrical check box respectively

NG end results are determined as follows:

| Port                  | Test voltage | Phenomena       | Judgement     | Remarks                  |
|-----------------------|--------------|-----------------|---------------|--------------------------|
| Pass end/standard end | 1500V        | Call the police | Unqualified   | Trace the tested product |
|                       |              | Do not alarm    | Qualified     |                          |
| NG end                |              | Give an alarm   | Qualified     |                          |
|                       |              | Do not alarm    | Disqualifying | Trace the tested product |

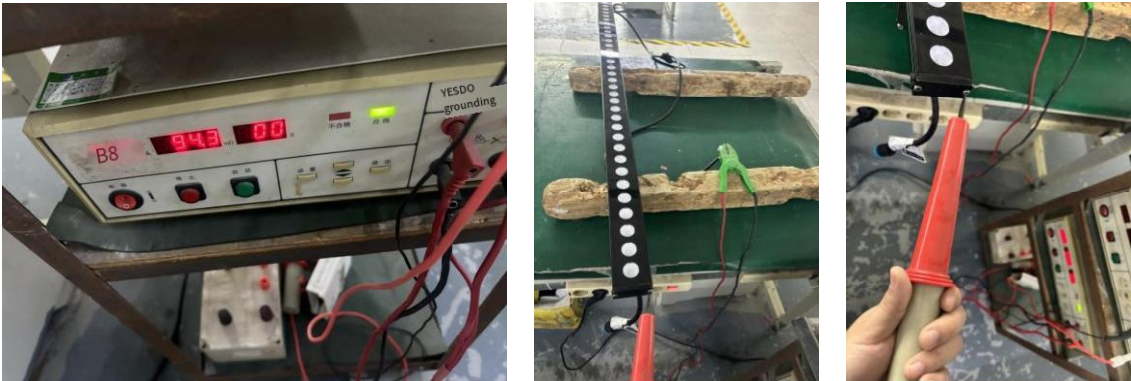
2) When it is found that the operation inspection of the instrument fails, the products tested with the instrument between the last operation inspection and the current operation inspection must be re-tested with the instrument that has passed the operation inspection.

Confirm before the test: measure whether the lamp body is safe and normal, light to confirm that the lamp is normally lit



Test data:

1. Grounding test: test with grounding tester (test passed)

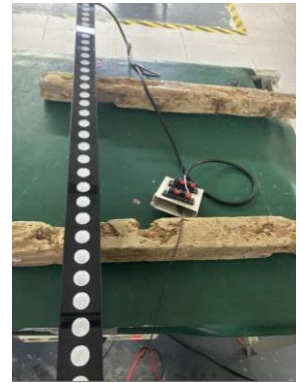


2. Withstand voltage test: Use a withstand voltage tester to test the lamp (test passed)

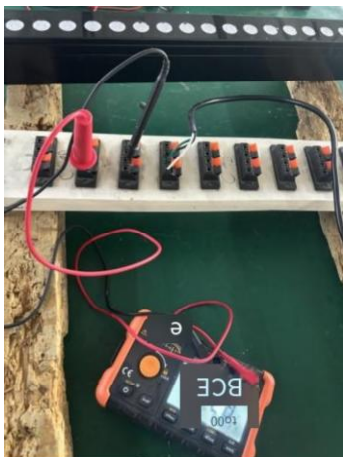
Tester: Wenliang Huang

Auditor: Hairui Chen

time: 2024.11.14



3. Insulation test: Use the insulation tester to test the luminaire (test passed)



Confirm after test: function is normal (R-G-B-W- full light)



