

TEST REPORT

Product Name: Fixed LED lighting fixtures (linear lights)

Product Model: LLS-COVE1-W40-8W-277V-016

Test Category: Safety tests

Customer: TPK OPTOELECTRONIC TECH CO., LTD

Tested by: Huang Wenliang

Checked by: Chen Hairui

report time: DEC 15, 2025

广东泰然实业有限公司
TPK OPTOELECTRONIC TECH CO., LTD

Inspection report

Test items	Safety tests (grounding, withstand voltage, insulation)
Object to be tested	LLS-COVE1-W40-8W-277V-016
Detection Purposes	Verify and confirm whether the safety performance of LLS-COVE1-W40-8W-277V-016 luminaires meets the standard requirements
Test Time	Start 2025-12-15 End: 2025-12-15

Testing equipment: Withstand voltage tester, ground tester, insulation tester, multimeter, voltmeter, connecting wire, power supply

Test Method and procedure:

1 Measure whether the lamp body is in compliance with safety regulations and light the lamp to confirm

2 Use a ground tester to measure whether the values are within the standard requirements

3 Use a withstand voltage tester to measure whether the values are within the standard requirements

4 Use an insulation tester to measure whether the values are within the standard requirements

5 Confirm the luminaires after testing, lighting confirmation function (R-G-B-W- all on)

Test results: The LLS-COVE1-W40-8W-277V-016 lamp did not show any non-conformities in the safety regulations tests (grounding, withstand voltage, insulation), and functions normally. The conclusion of this experiment is only responsible for the sample.

Test standard: Document requirements

The grounding resistance and the number of test times have been inspected. Once the safety test is passed, the requirement will automatically stop the test, indicating that the product test has been passed. During the above test, if the instrument has an alarm signal of "excessive ground resistance", it indicates that the resistance of the tested product does not meet the requirements and should be marked for repair. If you need to stop the test during the test, just press the "Reset" button.

2. Notes:

1. The operator must be familiar with the operating procedures of the test instrument.

2. Do not adjust other buttons at will throughout the test process.

3. The alarm will only be triggered when the test current exceeds 30A.

4. After the test is completed, it must be in the "reset" state before removing the wiring.

5. The short circuit path on the current output terminal is used to set the alarm resistance. Remove it when measuring.

3. Contents and methods of operation inspection:

Prepare a resistance box with parameters of 0.1220A

1. Prepare the resistance box and connect the test lead to the test lead of the equipment to be tested and the test lead.

2. Set the ground resistance test range to 0.12, adjust the test current to 30A, connect the ground terminal to the status terminal of the test box, and connect the test lead to the through terminal and NG terminal of the test box respectively. The judgment results are as follows:

Part	Test current	Phenomenon	Judgment	Notes
Through terminal	30A	Alarm	Unqualified	Exceeds the standard requirements
		No alarm	Qualified	
NG end		Alarm	Qualified	
		No alarm	Unqualified	Exceeds the standard requirements

3. Notes

1. Before using, use the light press and the upward stroke test length, I instructed the students to study the characteristics, methods and safety items of the test length

2. In the preparation, the test principles should be combined to ensure safety and accuracy

3. Book the full ring, absolute power, full Dharma, let go, and record at a fixed speed

3 Full swimming three eyes

4.6 Each (The above steps and notes can ensure accurate production and safety, and also determine whether the equipment is in good condition)

4. Insulation standards

1. Insulation resistance: >20MΩ and the test voltage is >400V (generally through the test)

2. Insulation resistance: >20MΩ and the test voltage is >400V (generally through the test)

1 New

In addition to 18 sheet energy square electrical protection method 2 (20-17550) 2, there are also advanced lighting fixtures such as gull

2 New

2. Adapt to the test two different types of the test equipment as the test: 400V/250A square loop test, and the test results are based on the test

3

Use the extra-long safety pressure (SEV) for the test

When a malfunction of the instrument is detected, it should be stopped immediately. First, disconnect the power supply, then unplug the power plug and notify the department or the engineering department for maintenance. No one else is allowed to adjust the instrument during the test except the designated technical management personnel. 3. Contents and methods of operation inspection:

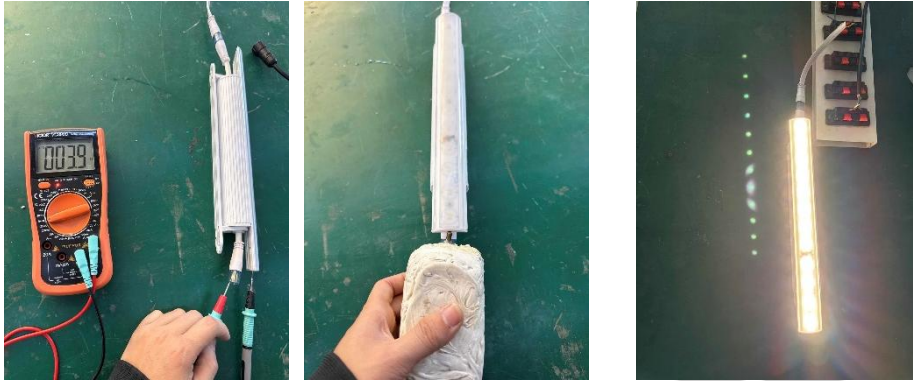
1) Check box parameters 1500V/5mA

The result of the NG end is determined as follows:

Part	Test voltage	Phenomenon	Judgment	Notes
Through terminal	1500V	Alarm	Unqualified	Exceeds the standard requirements
		No alarm	Qualified	
NG end		Alarm	Qualified	
		No alarm	Unqualified	Exceeds the standard requirements

2) When an instrument operation check is found to be non-compliant, products that have been tested with the instrument between the last operation check and the current operation check must be retested with the instrument that passed the operation check.

Pre-test confirmation: Measure whether the lamp body is in compliance with safety regulations, and light to confirm that the lamp is lit normally



Test data:

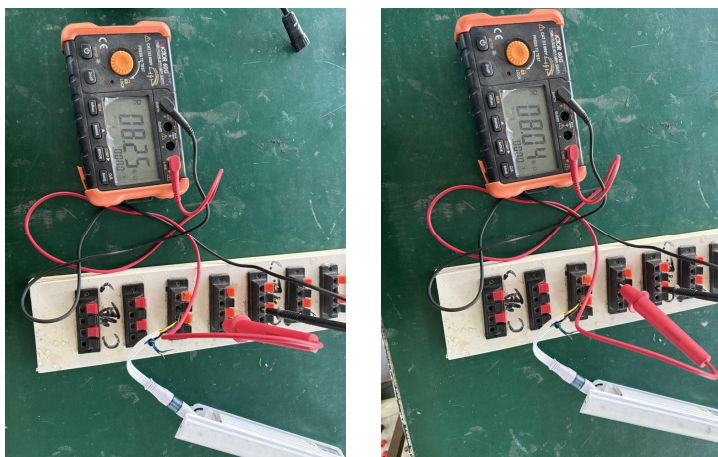
1. Ground test: Test with a ground tester (qualified)



2. Withstand voltage test: Test the luminaire using a withstand voltage tester (pass the test)



3. Insulation test: Test luminaires using an insulation tester (pass the test)



Test confirmation: Functioning properly

