

TEST REPORT

Product Name: Fixed LED (spot light)

Product Model: SP-PZT-R170-12P

Test Category: Safety tests

Customer: TPK OPTOELECTRONIC TECH CO., LTD

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report time: Mar 4, 2026

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	SP-PZT-R170-12P
Detection Purposes	Verify and confirm whether the safety performance of the SP-PZT-R170-12P luminaire meets the standard requirements
Test Time	Start 2026-3-4 End: 2026-3-4

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 SP-PZT-R170-12P lamp passed all safety regulations tests (grounding, withstand voltage, insulation) and functions normally. Therefore, it is determined that this sample has met the safety regulations performance requirements. The conclusion of this experiment is only responsible for the sample.

Test standard: Documentation requirements

1. 接地电阻测试仪在每次使用前应预先十五分钟，开始使用前进行设备预热点检。

2. 将接地电阻测试仪量程设置为 0.1Ω，调节测试电流为 30A，将其中的一根接地线接点接至被测回路，从该分接点起至被测回路 30m，关闭测试仪。

端口	测试电流	现象	判定	备注
通过端	30A	报警	不合格	该端已检测产品
		不报警	合格	
30端		报警	合格	
		不报警	不合格	该端已检测产品

三、注意事项

1. 接地电阻测试仪在每次使用前应预先十五分钟，开始使用前进行设备预热点检。

2. 将接地电阻测试仪量程设置为 0.1Ω，调节测试电流为 30A，将其中的一根接地线接点接至被测回路，从该分接点起至被测回路 30m，关闭测试仪。

四、检测标准

接地电阻值 < 0.1Ω 为合格 (0.1Ω 为合格)

检测项目	检测标准	判定
1. 接地电阻	接地电阻值 < 0.1Ω 为合格 (0.1Ω 为合格)	合格
2. 绝缘电阻	绝缘电阻值 > 1000MΩ 为合格 (1000MΩ 为合格)	合格
3. 耐压测试	耐压测试电压 > 1500V 为合格 (1500V 为合格)	合格

2. 检测时仪器发生报警时，应立即停止使用，由安全员处理，并通知组长或工程部经理。测试过程中指定技术人员外其余人员不得靠近仪器！！

三、运行检查内容及方法：

1) 点检参数 1500V 5mA

将测试仪的接地线夹在点检盒的接地端，然后将测试仪的输出端分别接点检盒的通过端和 30 端，测试结果判定如下：

端口	测试电压	现象	判定	备注
通过端/30端	1500V	报警	不合格	该端已检测产品
		不报警	合格	
30端		报警	合格	
		不报警	不合格	该端已检测产品

2) 当发现仪器运行检查不合格时，自上次运行检查到本次运行检查之间该仪器测试过的产品，必须用运行检查合格的仪器重新测试。

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:

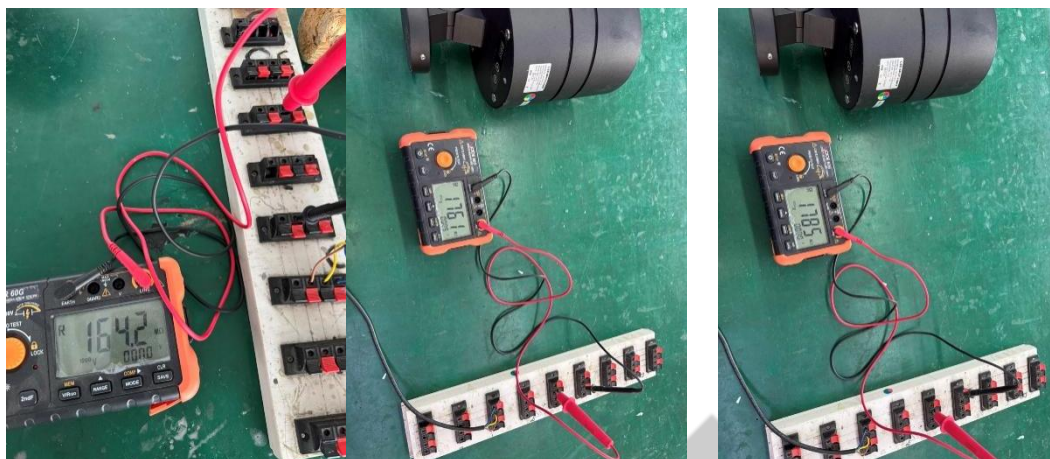
1. Ground test: Test with a ground tester (qualified)



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)



Confirmation after testing: Functioning properly (R-G-B-W-RGBW)

