

TEST REPORT

Product Name: Fixed LED (spot light)

Product Model: SP-PZT-R170-12P

Test Category: salt spray corrosion test

Customer: TPK OPTOELECTRONIC TECH CO., LTD

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report time: Mar 07, 2026

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

Inspection report

Test items	SP-PZT-R170-12P salt spray corrosion test
Test Object	SP-PZT-R170-12P
Detection Purposes	To verify the corrosion resistance of SP-PZT-R170-12P
Test time	Start: March 4, 2026 End: March 7, 2026
Testing instruments	Drying oven, salt spray test chamber

Test method and procedure:

1. Wash the SP-PZT-R170-12P with alcohol first, prepare the salt spray corrosion test solution: 50G sodium chloride 1 liter distilled water, and determine the PH and specific gravity of the test solution
2. Start the salt spray test in the salt spray test chamber on April 4, 2026.
3. The salt spray corrosion test ended on March 7, 2026.7
4. After the test, remove the sample from the salt spray chamber, rinse the surface with tap water to remove the salt deposits, and then immediately place it in a drying oven at 70 ° C for 30 minutes to dry

Test data

Salt spray test record sheet

Test Date: 7 March 2026 Test Number: 202603005	
Test duration: 2026.3.4 to 2026.3.7: A total of 72 hours for salt spray corrosion tests	
1. Quality of sodium chloride	Sodium chloride content greater than 98.8%
2. Quality of distilled water	Boil tap water and then filter it
3. Spray collector:	1.44 ml / 71 cm/h
3.1 Spray Volume	1.44 ml/h
3.2 Collect the specific gravity or concentration of the solution at room temperature	1.04
3.3 PH	7.9-8.0
4. Compressed air pressure	1.0±0.01 Kg/f/cm
5. Relative humidity in the laboratory	More than 95%
6. Laboratory temperature	50 + / - 1 °C
6. Pressure tank temperature	65 + / - 1 °C

8. Salt tank temperature	50 + / - 1 °C
9. Others	
Judgment:	1. Judge based on the provisions of GB 5944-86
	2. By other means:

Before the test: Confirm that the appearance of the product is intact (the sample shows no signs of corrosion)

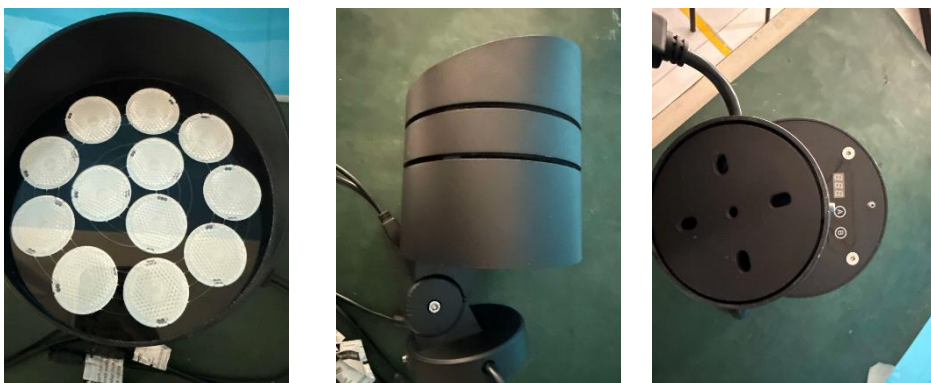


During the test, place the sample in the salt spray test chamber and set the parameters to start the test (72 hours).



After the test: Rinse the sample with clean water and dry it in a drying oven; check if there are any corrosive traces on the surface of the sample





(No signs of corrosion were found on the sample)

Test results:

According to Clause 5.6 of the national standard GB 5944-86 "Evaluation of Corrosion Test Results of Metal Coatings on Light Industrial Products", the corrosion resistance grade of SP-PZT-R170-12P is 10.

表 2

锈 点 数	耐 腐 蚀 等 级
0	10
> 0 ~ 1	9
> 1 ~ 2	8
> 2 ~ 4	7
> 4 ~ 8	6
> 8 ~ 16	5
> 16 ~ 32	4
> 32 ~ 64	3
> 64 ~ 128	2
> 128 ~ 256	1
> 256	0

Final test conclusion:

Based on the analysis of the above test data, the corrosion resistance test of the SP-PZT-R170-12P sample was qualified.