

TEST REPORT

Product Name: Fixed LED lighting fixtures (linear lights)

Product Model: LLS-OP-W30A

Test Category: salt spray corrosion test

Customer: TPK OPTOELECTRONIC TECH CO., LTD

Tested by: Huang Wenliang

Checked by: Chen Hairui

report time: Jun 6, 2025

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

Test report

Test items	salt spray corrosion test
Test subjects	LLS-OP-W30A-L9-DMX
Detection purpose	Verify the corrosion resistance of LLS-OP-W30A-L9-DMX
Test time	Start: 2025-6-3 End: 2025-6-6
Testing instruments	Drying oven, salt spray test chamber

Test methods and procedures:

1. First clean LLS-OP-W30A-L9-DMX with alcohol, prepare salt spray corrosion test solution: 50G sodium chloride 1 liter distilled water, measure the PH value and specific gravity of the test solution

2. Start the salt spray corrosion test by placing the sample in the salt spray test chamber on June 3, 2025.

3. 2025.6.6 The salt spray corrosion test was completed

4. After the test, take the sample out of the salt spray chamber, rinse the surface with tap water to remove salt deposits, and then immediately place it in a drying oven to dry at 70 ° C for 30 minutes

Test data:

Salt spray test record sheet

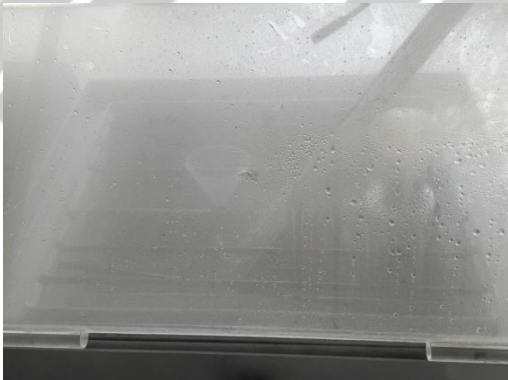
Test date June 6, 2025 Test number: 20250603	
Test duration: June 3, 2025 - June 6, 2025:72 hours of salt spray corrosion test	
1. Sodium chloride quality	Sodium chloride content greater than 99.1%
2. Quality of distilled water	Boil tap water and filter it
3 Spray collector:	1.47 ml / 70 cm/h
3.1 Spray volume	1.47 ml/h
3.2 Collect the specific gravity or concentration of the solution at room temperature	1.05
3.3 PH	7.8-8.0
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 barrel temperature	65 + / - 1 °C

8. Salt water bucket temperature	50 + / - 1 °C
9. Others	
Judgment:	1. In accordance with the provisions of National standard GB 5944-86
	2. By other means:

Before the test: Confirm that the appearance of the product is intact (no corrosive marks on the lamp body)



During the test, place the product in the salt spray test chamber, adjust the parameters to start the test (72 hours)



After the test: Rinse the product with clean water and dry it in a drying oven: Check if there are any corrosive marks on the surface of the lamp body





(No corrosion marks were found on the product)

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 LWW-PZT-W38A-L12-RDM 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 LLS-OP-W30A-L9-DMX product is qualified.