

TEST REPORT

Product Name: Fixed LED lighting fixtures (linear lights)

Product Model: LLS-OP-W30A

Test Category: Coating 100-grid test

Customer: TPK OPTOELECTRONIC TECH CO., LTD

Tested by: Huang Wenliang

Checked by: Chen Hairui

report time: May 28, 2025

广东泰然实业有限公司

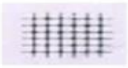
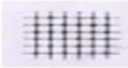
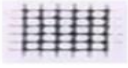
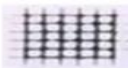
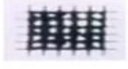
TPK OPTOELECTRONIC TECH CO., LTD

Test report

Test items	Coating 100-grid test
Test Object	LLS-OP-W30A-L9-DMX
Detection purpose	Verify the paint finish grade of the LLS-OP-W30A-L9-DMX lamp body
Test time	2025.5.28
Testing equipment	Tape, utility knife, soft-bristled brush, magnifying glass

Final conclusion of the test: The LLS-OP-W30A-L9-DMX sample lamp meets the requirements of the 5B grade coating hundred grid test; The results of this test are only responsible for the sample results.

Test criteria: International standards

Grade	Status description	Appearance	等级	状态描述	外观
5B	The edges of the lines are smooth, and there is no paint peeling at the edges and intersection points of the lines.	-----	5B	划线边缘光滑，在划线的边缘及交叉点处均无油漆脱落。	-----
4B	There are small pieces of paint falling off at the crossing points of the lines, and the total area falling off is less than 5%.		4B	在划线的交叉点处有小片的油漆脱落，且脱落总面积小于 5%。	
3B	There are small pieces of paint falling off at the edges and intersections of the lines, and the total area falling off is between 5% and 15%.		3B	在划线的边缘及交叉点处有小片的油漆脱落，且脱落总面积在 5% - 15% 之间。	
2B	There are large areas of paint peeling off at the edges and intersections of the lines, and the total peeling area is between 15% and 35%.		2B	在划线的边缘及交叉点处有成片的油漆脱落，且脱落总面积在 15% - 35% 之间。	
1B	There are large areas of paint peeling off at the edges and intersections of the lines, and the total peeling area is between 35% and 65%.		1B	在划线的边缘及交叉点处有成片的油漆脱落，且脱落总面积在 35% - 65% 之间。	
OB	The detached area exceeds the 1B standard	-----	OB	脱落区域超过了 1B 标准	-----

Test data:

1. Record the state of the sample before the test.

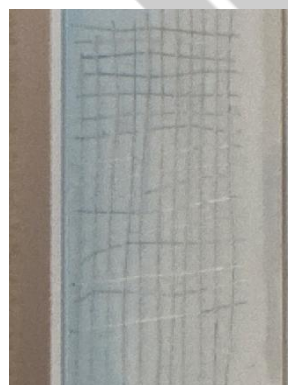


The product surface is smooth and free of marks

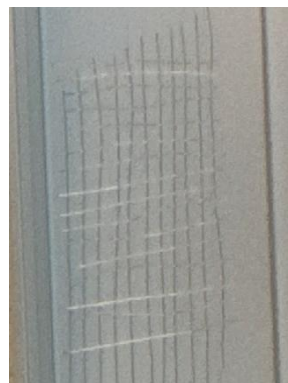
Test method:

2. In a 100mm² area, use a utility knife to draw lines at intervals of 1mm (the depth should reach the substrate), cross 100 squares, brush the square paint surface, stick tape or compatible adhesive tape to the square test area, then tear the tape off instantly and quickly in the vertical direction, no more than 5% of the paint on the test surface should fall off. After the test, use a magnifying glass to observe the paint on the lamp body and the surface where the tape was used

Test process:



Test results



Test results:

The above-mentioned test data proved that no paint peeling occurred on the body of the LLS-OP-W30A-L9-DMX lamp after the coating hundred grid test.