

TEST REPORT

Product Name: Fixed LED lighting fixtures (linear lights)

Product Model: LLS-OP-D50-L12

Test Category: Coating hundred-grid test

Customer: TPK OPTOELECTRONIC TECH CO., LTD

Tested by: Huang Wenliang

Checked by: Chen Hairui

report time: JUN 28, 2025

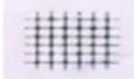
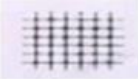
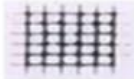
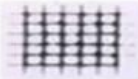
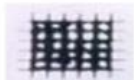
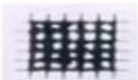
广东泰然实业有限公司
TPK OPTOELECTRONIC TECH CO., LTD

Inspection report

Test items	Coating hundred-grid test
Test object	LLS-OP-D50-L12-RDM-P
Detection Purposes	Verify the paint finish grade of the LLS-OP-D50-L12-RDM-P luminaires
Test time	2025.6.28
Inspection equipment	Tape, utility knife, soft brush, magnifying glass

Test final conclusion: LLS-OP-D50-L12-RDM-P sample lamps can pass the 5B grade coating hundred-grid test requirements; The results of this experiment are only responsible for the results of the sample.

Test standard: International standard

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 off 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 area of peeling 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 area of peeling 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 status of the sample before testing.

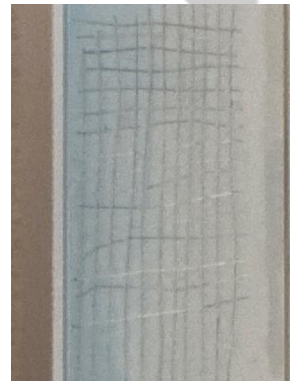
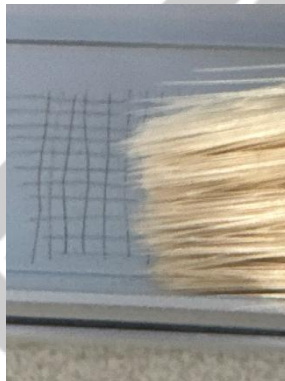


The product surface is smooth and free of marks

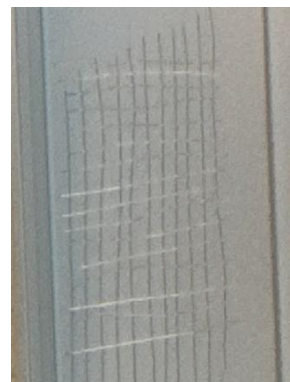
Test method

2. In an area of 100mm², use a utility knife to draw a line at intervals of 1mm (the depth should be visible to the substrate), cross and draw 100 squares. Use a brush to sweep the paint surface of the squares and stick tape or its compatible tape to the test area where the squares are drawn. Then, instantly and quickly remove the tape in a vertical direction. There should be no more than 5% of the paint on the test surface. After the test, use a magnifying glass to check the paint on the lamp body and the surface where the tape is used

Test procedure:



Test Results



Test results:

The above test data prove that the LLS-OP-D50-L12-RDM-P luminaires have no paint peeling on the lamp body after the coating hundred-grid test.