

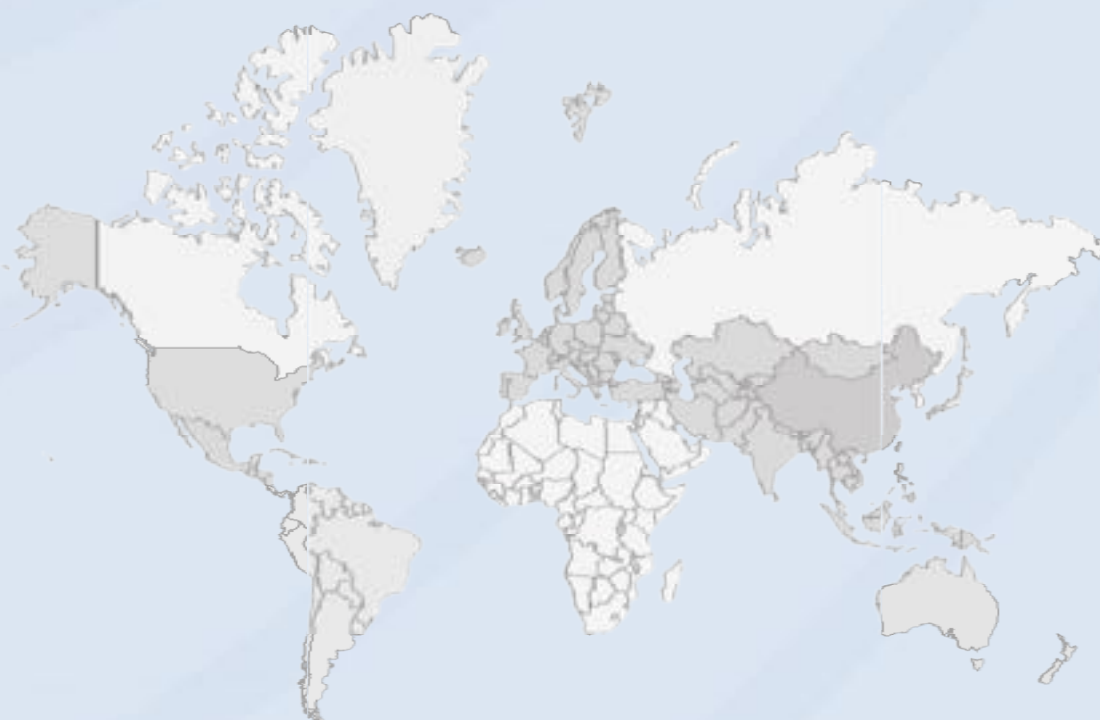


# VIBRATING TEST REPORT

Report No. .... : NTC-SR2505012

Applicant's name ..... : MIC Optoelectronic CO., LTD

Address ..... : 2nd floor, Third Building, 97# AiNan Road, LongDong,  
BaoLong Street, LongGang District, Shenzhen, China



## DONGGUAN NEW TESTING CENTRE CO., LTD

©Address: 1F & 3F, No. 1 the 1st North Industry Road Songshan Lake Science & Technology Park  
Dongguan, People's Republic of China 523808

☎Tel: +86-769-22212079 🌐Web: <http://www.ntc-cert.com> ✉E-mail: [dave@ntc-cert.com](mailto:dave@ntc-cert.com)

# TEST REPORT

## Luminaires

### Part 1: General requirements and tests — Luminaire Vibration

<b>Report Reference No.</b> .....	NTC-SR2505012
<b>Date of issue</b> .....	May.10, 2025
<b>Total number of pages</b> .....	6 Pages
<b>Testing Laboratory</b> .....	Dongguan New Testing Centre Co., Ltd.
<b>Address</b> .....	1F & 3F, No. 1 the 1st North Industry Road Songshan Lake Science & Technology Park Dongguan, People's Republic of China 523808
<b>Tested by (name + signature)</b> .....	<div>Jack Zhang</div> <div>   </div> <div>Neil Zhong</div>
<b>Approved by (+ signature)</b> .....	
<b>Applicant's name</b> .....	MIC Optoelectronic CO., LTD
<b>Address</b> .....	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China
<b>Manufacturer's name</b> .....	MIC Optoelectronic CO., LTD
<b>Address</b> .....	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, China
<b>Standard</b> .....	IEC 60598-1:2020 : 4.20 Rough service luminaires – Vibration requirements IEC 60068-2-6:2007
<b>Test specification:</b>	
Procedure deviation .....	: N/A
Non-standard test method .....	: N/A
<b>Testitem description</b> .....	: LED Street Light
Trade mark .....	: MIC
Model/Type reference .....	: MSL-F30,MSL-F50,MSL-F60,MSL-F80,MSL-F100,MSL-F120,MSL-F150,MSL-F180,MSL-F200,MSL-F240,MSL-F300
Rating .....	: 100-277VAC, 50/60Hz, 150W, CCT 5000K

**Testing:**

Date of receipt of test item ..... : Apr. 30, 2025  
Date (s) of performance of tests ..... : Apr. 30, 2025 to May.10, 2025

**Possible test case verdicts:**

- test case does not apply to the test object ..... : N (N/A)
- test object does meet the requirement ..... : P (Pass)
- test object does not meet the requirement ..... : F (Fail)

**General remarks:**

Throughout this report a point is used as the decimal separator.  
The test results presented in this report relate only to the object tested.  
This report shall not be reproduced except in full without the written approval of the testing laboratory.

**Supplementary evaluations:**

- All models within this series share an identical structure; therefore, testing was conducted on a singlerepresentative model only.
- All tests were conducted exclusively on model MSL-F150.

**General product information:**

Testing environment				
Temperature		25°C		
Humidity		50-75%		
Test Equipment	Equipment Name	Equipment No.	Validity Period	Validity Period
	Vibration tester	DC-3000-30/ SV-1010	2025-01-23	2026-01-22
	Vibration tester	EV320H080	2025-01-23	2026-01-22

**Vibration Test General description:**

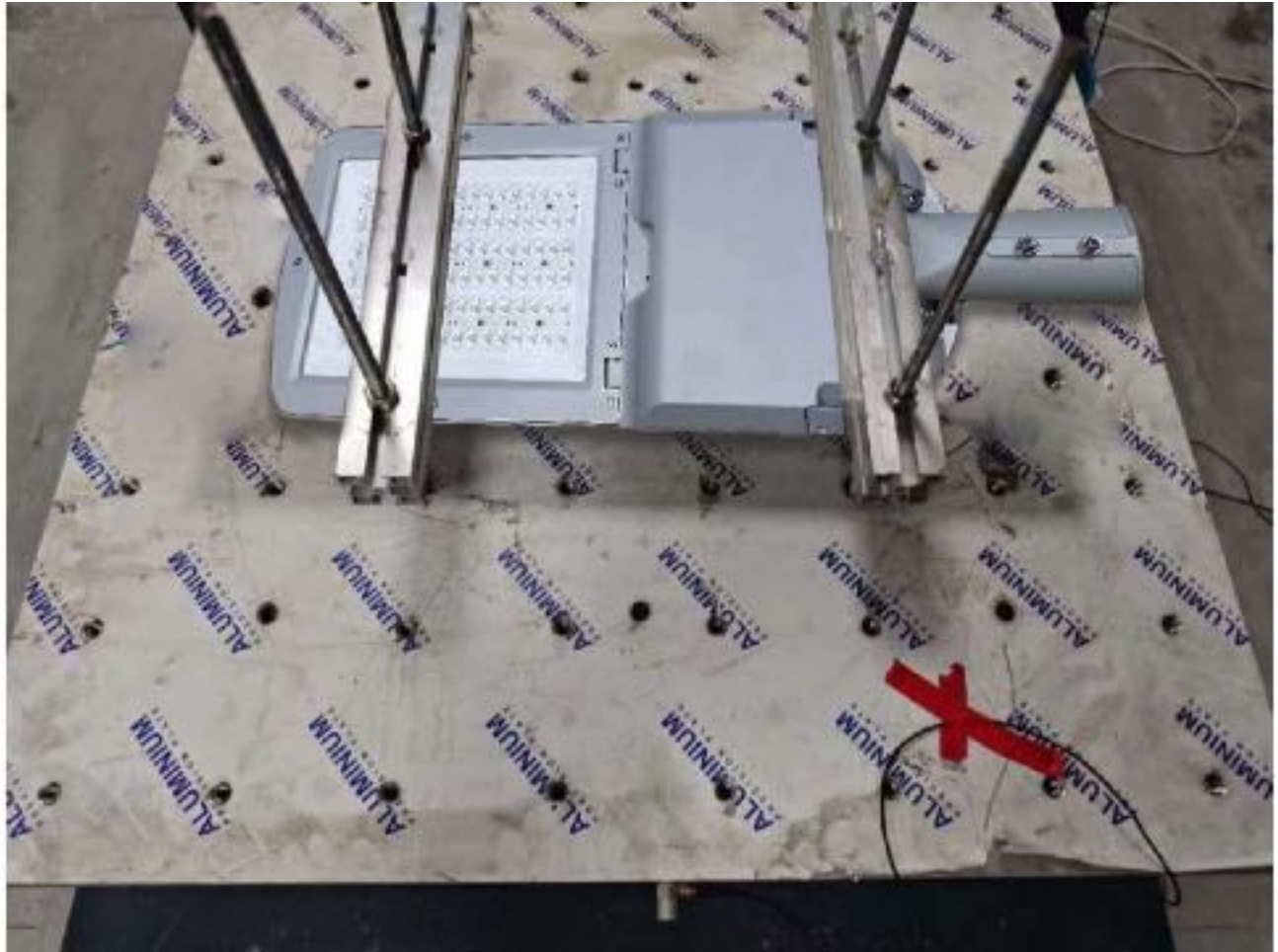
Rough service luminaires shall have adequate resistance to vibrations.  
Compliance is checked by the following vibration test (as specified in IEC 60068-2-6).  
The luminaire is fastened in its most onerous but normal position of installation to a vibrationgenerator.  
The direction of vibration is in the most onerous direction and the severity is:  
After the test, the luminaire shall have no loosened parts which could impair the safety.

**Model:MLL-L150-2**

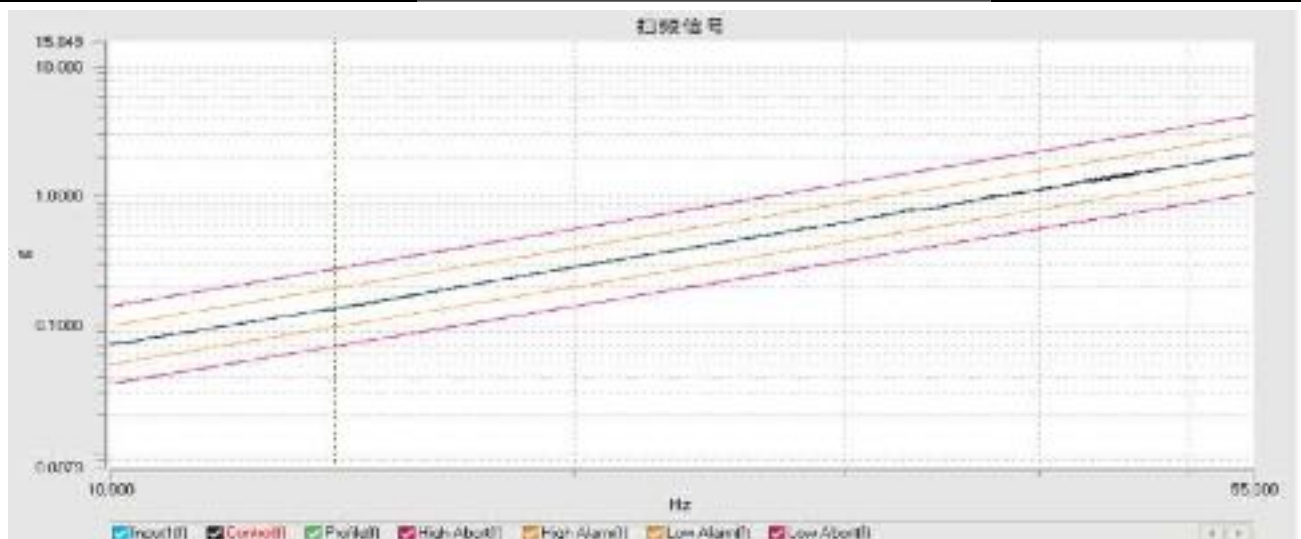
Vibration	Test Frequency	Test Duration	Vibration Amplitude	Test result
X-axis	10 Hz, 55 Hz, 10 Hz	30 min	0,35 mm	Pass
Y-axis	10 Hz, 55 Hz, 10 Hz	30 min	0,35 mm	Pass
Z-axis	10 Hz, 55 Hz, 10 Hz	30 min	0,35 mm	Pass

Setup Photo

Test model:MSL-F150, Axis: Vibration (X-axis)



Vibration Plot



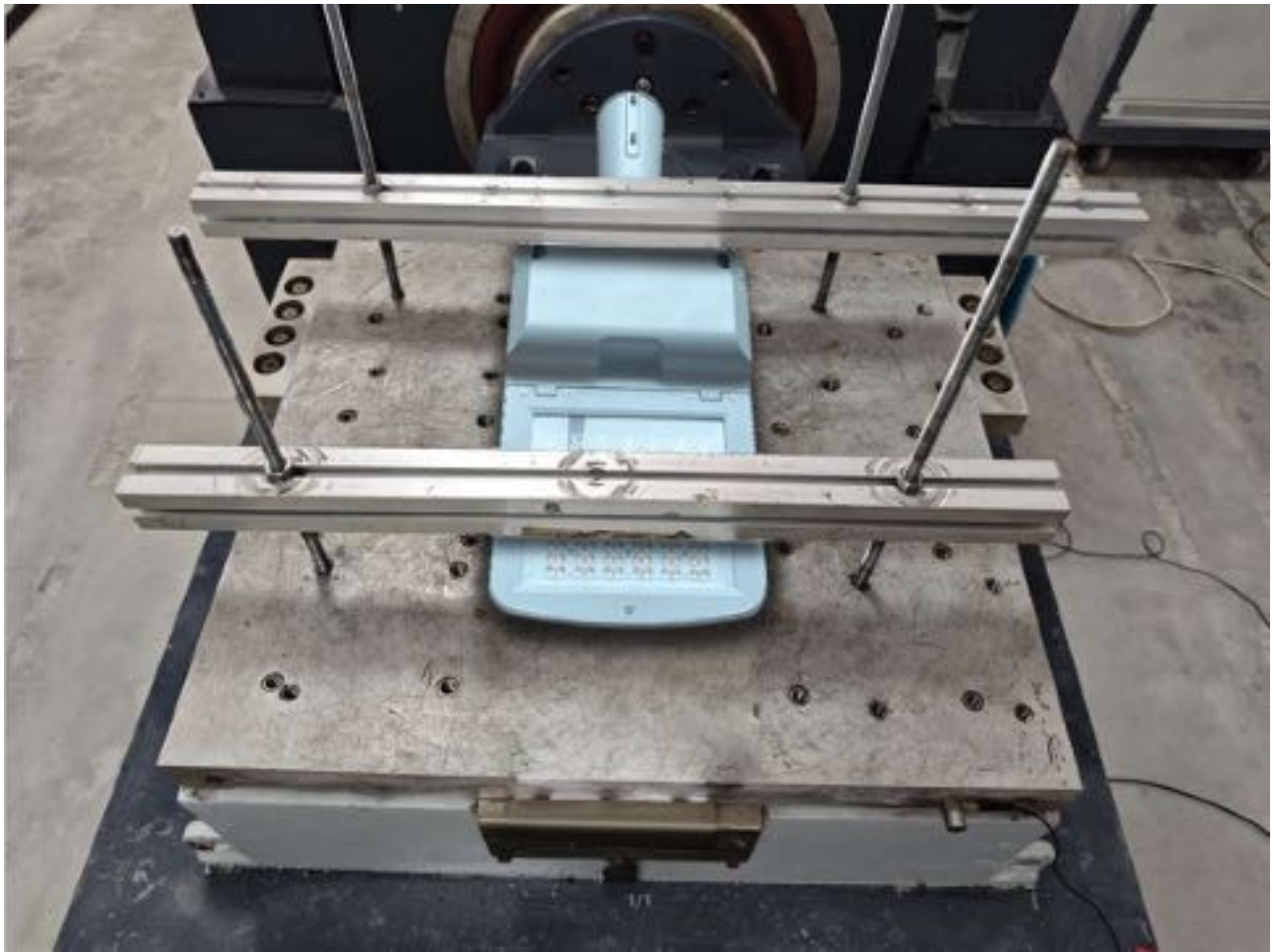
Conclusion after the test:

The sample was tested in the X-axis direction. no significant changes were found in the test sample. The fixture can light up and function after the vibration endurance testing. Test result: Pass

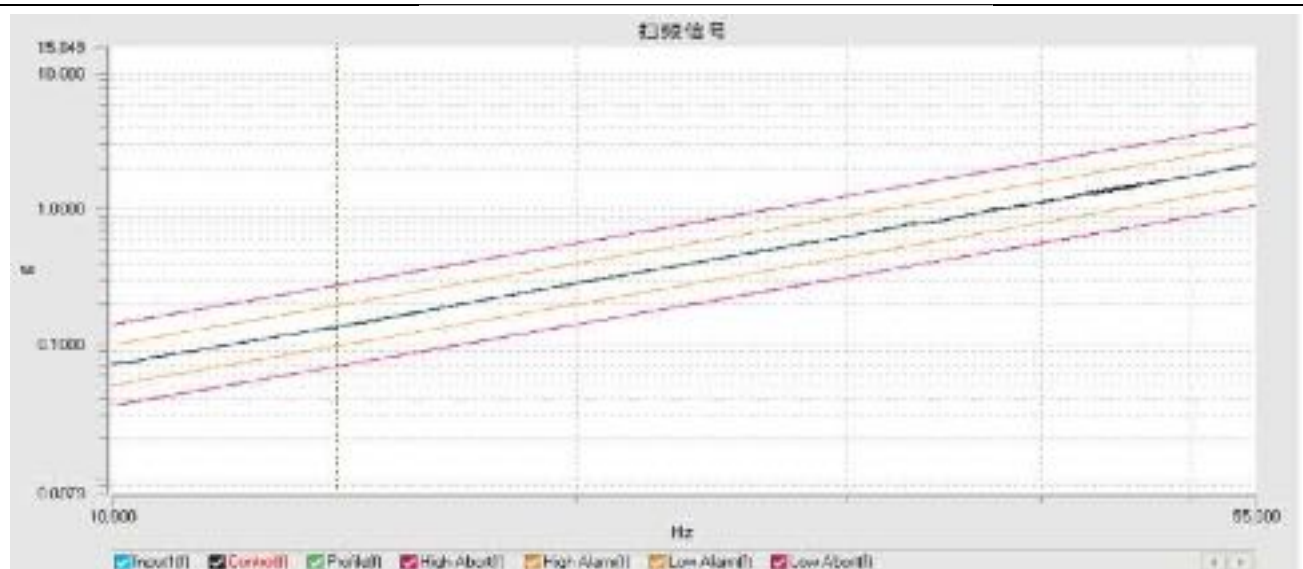


Setup Photo

Test model: MSL-F150, Axis: Vibration (Y-axis)



Vibration Plot

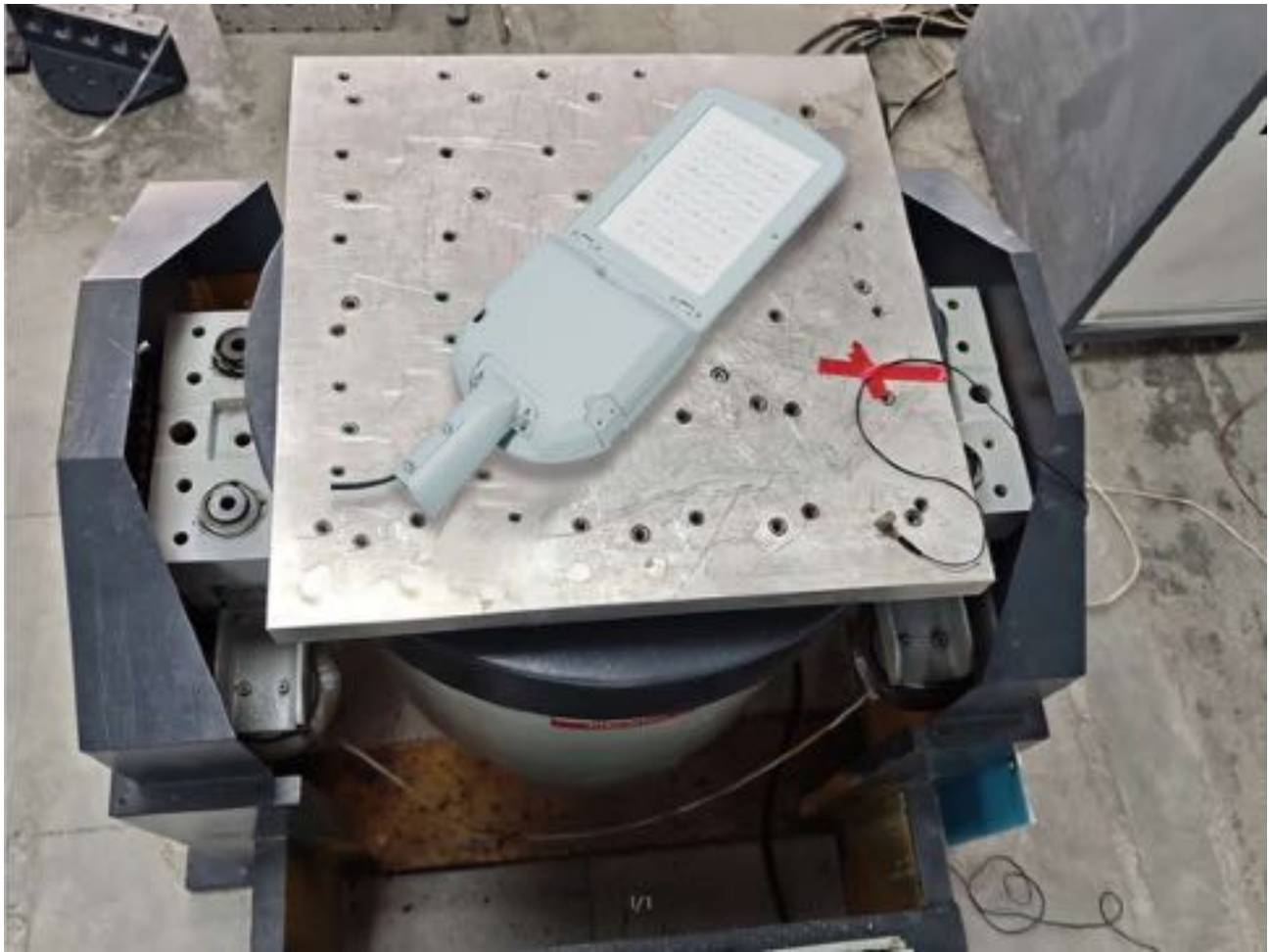


Conclusion after the test:

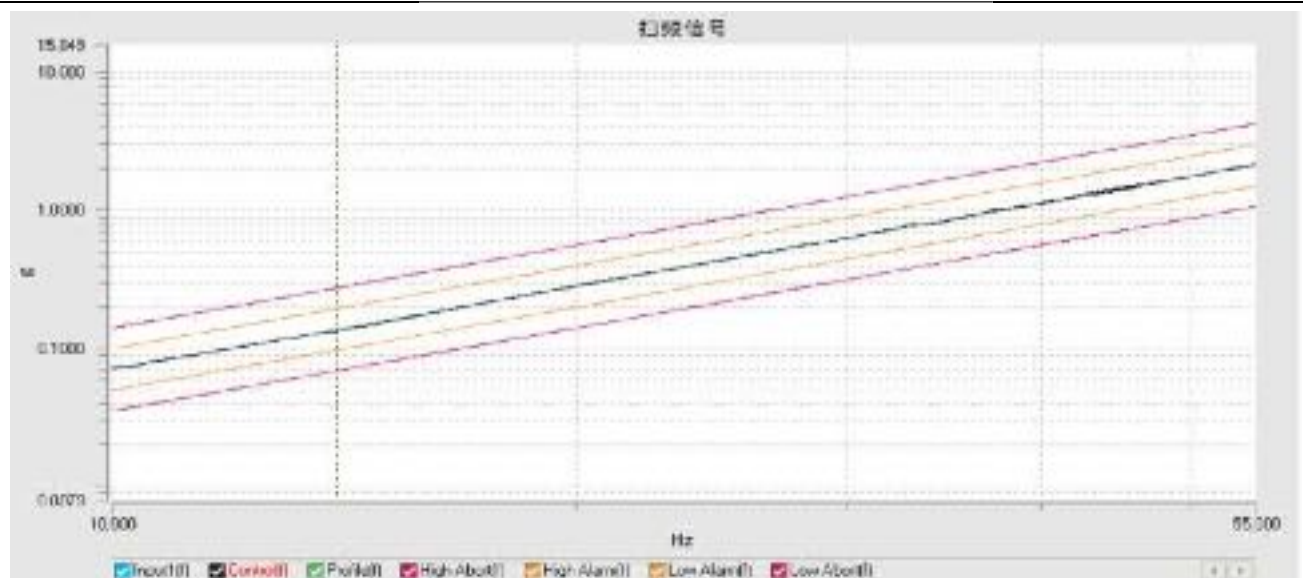
The sample was tested in the Y-axis direction. no significant changes were found in the test sample. The fixture can light up and function after the vibration endurance testing. Test result: Pass

Setup Photo

Test model:MSL-F150, Axis: Vibration (Z-axis)



Vibration Plot



Conclusion after the test:

The sample was tested in the Z-axis direction. no significant changes were found in the test sample. The fixture can light up and function after the vibration endurance testing. Test result: Pass

**Product Sample**



**Picture 1: The overview (Model: MSL-F150)**



**Picture 2: The overview ( Model: MSL-F150 )**

**--End of report--**