

TEST REPORT

NeonLine-07_1615

Test Model: NeonLine-07_1615

Report Number : LCSB04216102S

Applicant : Shanghai Jingtou Intelligent Technology Co., Ltd.
Address : Building 1, No.5601, Yanqian Highway, Fengxian District, Shanghai, China 201414

Manufacturer : Shanghai Jingtou Intelligent Technology Co., Ltd.
Address : Building 1, No.5601, Yanqian Highway, Fengxian District, Shanghai, China 201414

Prepared by : Shenzhen Southern LCS Compliance Testing Co., Ltd.
Address : 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

Date of receipt sample : April 21, 2026
Date of test : April 21, 2026 - April 22, 2026
Date of issue : May 09, 2026

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full. without prior written permission of the company, The report would be invalid without specific stamp of test institute and the signatures of approver.



TEST REPORT

Client:	Shanghai Jingtou Intelligent Technology Co., Ltd.
Address:	Building 1, No.5601, Yanqian Highway, Fengxian District, Shanghai, China 201414
Manufacturer:	Shanghai Jingtou Intelligent Technology Co., Ltd.
Address:	Building 1, No.5601, Yanqian Highway, Fengxian District, Shanghai, China 201414
Brand Name:	N/A
Product Description:	NeonLine-07_1615
Models:	See model list
Rating:	See model list
Test item:	IP68 Test
Method:	Clause 11.2 of IEC 60598-1:2024
Test result*:	Pass

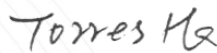
Date of sample receipt:	Date of Test:	Date of Issue:	Classification:
2026/04/21	2026/04/21-2026/04/22	2026/05/09	Commission Test

Testing Laboratory:

Shenzhen Southern LCS Compliance Testing Co., Ltd.
101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

Test by:


Lisa Zeng/ Project Engineer

Check by:


Torres He/ Director

Approved by:


Jesse Liu/ Manager

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4. No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

Modified Information

Version	Report No.	Revision Date	Summary
V1.0	LCSB04216102S	/	Original Version

General product information:

- All models have similar appearance and structure except model name are difference.
- Unless otherwise specified, the model NeonLine-07_1615 was chosen as representative model to perform all test.

Model List:

Model	Rating
NeonLine-07_1617	DC24V, 15W
NeonLine-07_1220	
NeonLine-07_1616	
NeonLine-07_1615	
NeonLine-07_2222	
FlexGround-03_4075	

Equipment used during test:

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-031	Sand and dust test box	SC-500	2026/4/23
SLCS-S-040	Submersible test unit	X8	2025/12/7
SLCS-S-148	Air compressor	OTS-800	/
SLCS-S-072	Torque Driver	26RTD	2026/4/23
SLCS-S-073	Hi-pot tester	AN9602M	2026/4/23

SLCS-S-062	Frequency Converter	AN97020TS	2026/4/23
SLCS-S-060	Digital Power Meter	PF9800	2026/4/23
SLCS-S-011	J Thermocouple	J	2026/4/27
SLCS-S-159	Temperature recorder	34970A	2025/12/20
SLCS-E-027	Temperature and humidity barometer	/	2026/4/19



Test Item:**Test Item:**

Tests for protection against dust-proof: IP6X

Test Method:

The tests should be carried out under the standard atmospheric condition.

Temperature range: 20°C to 30°C

Dust-proof luminaires (first characteristic IP numeral 6) shall be tested in a dust chamber similar To that shown in Figure 40, in which talcum powder is maintained in suspension by an air current.

The chamber shall contain 2 kg of powder for every cubic metre of its volume. The talcum powder used shall be able to pass through a square-meshed sieve whose nominal wire diameter is 50 µm and whose nominal free distance between wires is 75 µm. It shall not have been used for more than 20 tests.

The test shall proceed as follows.

- a) The luminaire is suspended outside the dust chamber and operated at rated supply voltage until operating temperature is achieved.
- b) The luminaire, whilst still operating, is placed with the minimum disturbance in the dust chamber.
- c) The door of the dust chamber is closed.
- d) The fan or blower causing the talcum powder to be in suspension is switched on.
- e) After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum powder remains in suspension.

NOTE: The 1 min interval between switching on the fan or blower and switching off the luminaire is to ensure that the talcum powder is properly in suspension around the luminaire during initial cooling, which is most important with smaller luminaires. The luminaire is operated initially as in item a) to ensure the test chamber is not overheated.

Acceptance Conditions:

After completion of the tests, the luminaire shall withstand the electric strength test specified in Section 12, and inspection shall show:

No deposit of talcum powder inside enclosures for dust-tight luminaires

Test Result:

Pass Fail

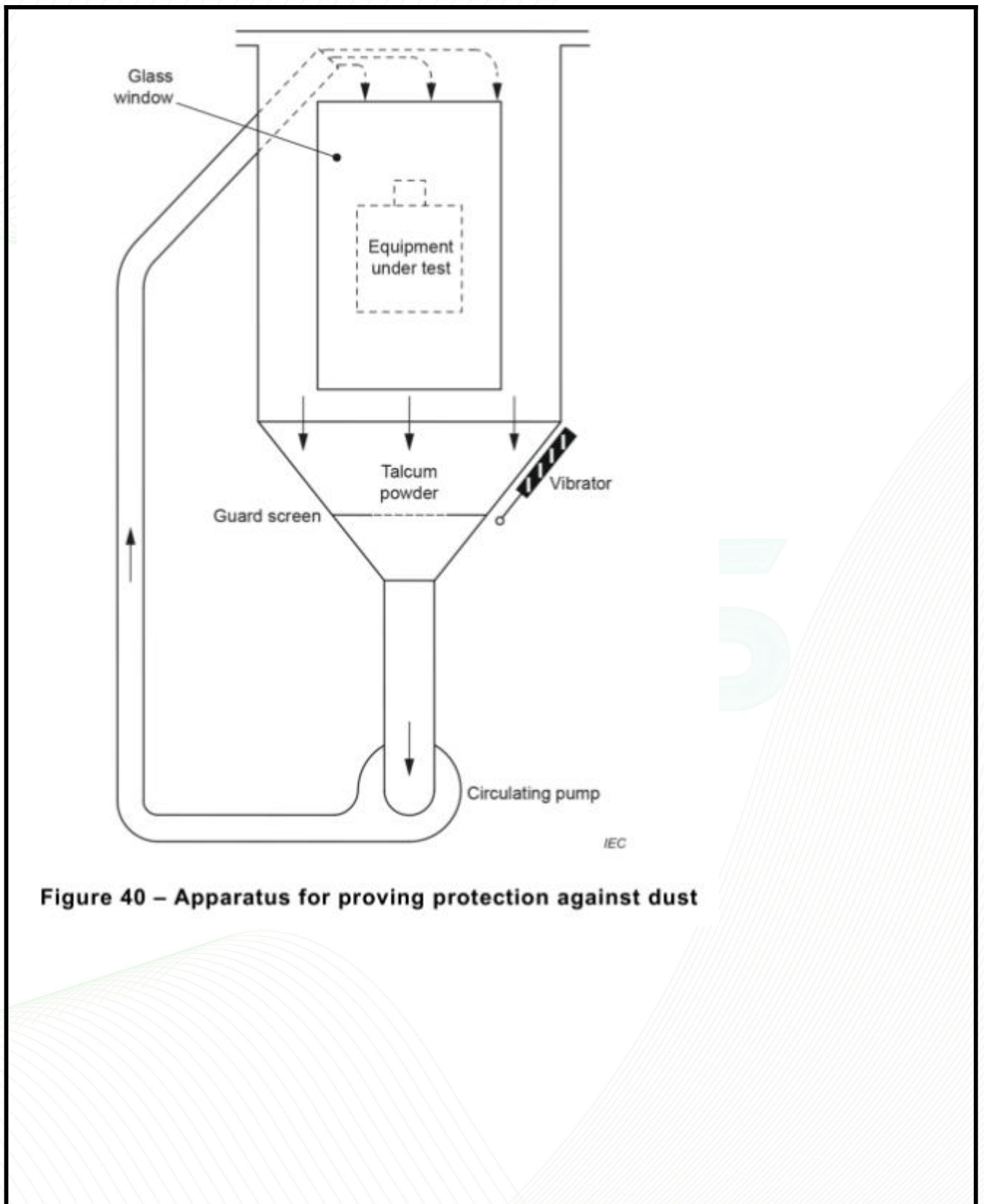


Figure 40 – Apparatus for proving protection against dust

Test Item:

Tests for protection against ingress moisture: IPX8

Test Method:

The tests should be carried out under the standard atmospheric condition.

The atmospheric conditions during tests are as follows:

Temperature range: 20°C to 30°C.

The tests are conducted with fresh water.

Pressure watertight luminaires (second characteristic IP numeral 8) are heated either by switching on the lamp or by other suitable means, so that the temperature of the luminaire enclosure exceeds that of the water in the test tank by between 5 °C and 10°C.

The luminaire shall then be switched off and subjected to a water pressure of 1,3 times that pressure which corresponds to the rated maximum immersion depth for a period of 30 min. The rated maximum immersion depth is 1 m for the luminaire.

Test water for the tests shall be at a temperature of 15°C ± 10°C.

Luminaires shall be mounted and wired as in normal use and placed in the most unfavourable position, complete with their protective translucent covers, if any, for the tests of IP.

Where connection is made by a plug or a similar device, then this shall be regarded as part of the complete luminaire and shall be included in the tests and similarly for any separate Control gear.

For tests of IPX1 to IPX8, a fixed luminaire intended for mounting with its body in contact with a surface shall be tested with an expanded metal spacer interposed between the luminaire and the mounting surface.

For recessed luminaires, the parts in the recess and the parts protruding from the recess shall each be tested according to their IP classification as indicated in the manufacturer's mounting instructions.

NOTE A box encapsulating the part in the recess may be necessary for the test of IPX3 to IPX8.

Portable luminaires, wired as in normal use, shall be placed in the most unfavourable position of normal use.

Glands, if any, shall be tightened with a torque equal to two-thirds of that applied to glands in the test of Table 6.

Fixing screws of covers, other than hand-operated fixing screws of glass covers, shall be tightened with a torque equal to two-thirds of that specified in Table 5.

Screwed lids shall be tightened with a torque having a value in newton metres numerically equal to one-tenth of the nominal diameter of the screw thread in millimeters. Screws fixing other caps shall be tightened with a torque equal to two-thirds of that specified in Table 5.

Acceptance Conditions:

After completion of the tests, the luminaire shall withstand the electric strength test specified in Section 12, and inspection shall show:

No trace of water on electrical connections, current carrying parts or on insulation where it could become a

hazard for the user or surroundings, for example where it could reduce the creep age distances below the values specified in Section 13; the only exception to this is for SELV conductors where the voltage under load does not exceed 12 V r.m.s. or 30 V ripple free d.c. and the conductors are protected from corrosion.
No trace of water having entered in any part of a watertight or pressure watertight luminaire.

Test Result:

Pass **Fail**



Table 5 – Torque tests on screws

Nominal outer thread diameter of screw mm	Torque Nm		
	1	2	3
Up to and including 2,8	0,20	0,40	0,40
Over 2,8 up to and including 3,0	0,25	0,50	0,50
Over 3,0 up to and including 3,2	0,30	0,60	0,50
Over 3,2 up to and including 3,6	0,40	0,80	0,60
Over 3,6 up to and including 4,1	0,70	1,20	0,60
Over 4,1 up to and including 4,7	0,80	1,80	0,90
Over 4,7 up to and including 5,3	0,80	2,00	1,00
Over 5,3 up to and including 6,0	–	2,50	1,25
Over 6,0 up to and including 8,0	–	8,00	4,00
Over 8,0 up to and including 10,0	–	17,00	8,50
Over 10,0 up to and including 12,0	–	29,00	14,50
Over 12,0 up to and including 14,0	–	48,00	24,00
Over 14,0 up to and including 16,0	–	114,00	57,00

Table 6 – Torque tests on cable glands

Diameter of test rod mm	Moment	
	Metal cable glands Nm	Moulded plastic cable glands Nm
Up to 7	4,00	2,5
Over 7 up to 14	6,25	3,25
Over 14 up to 20	7,50	5
Over 20	10	7,50

Withstand the electric strength after IP6X test:

Test Location	Test Voltage	Broken or Flashover
Live parts and accessible parts	500V	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Withstand the electric strength after IPX8 test:

Live parts and accessible parts	500V	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Photo Documentation:

Photo 1: Overall view of model NeonLine-07_1615

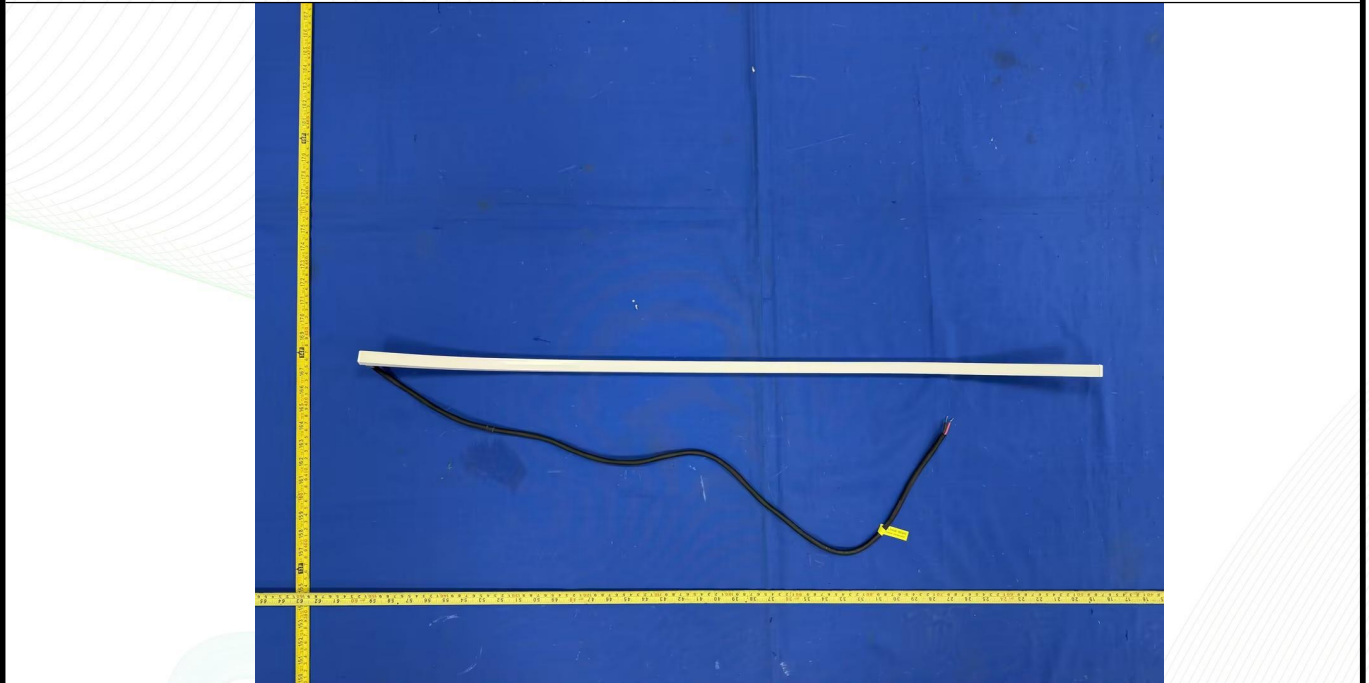


Photo 2: Overall view of model NeonLine-07_1615

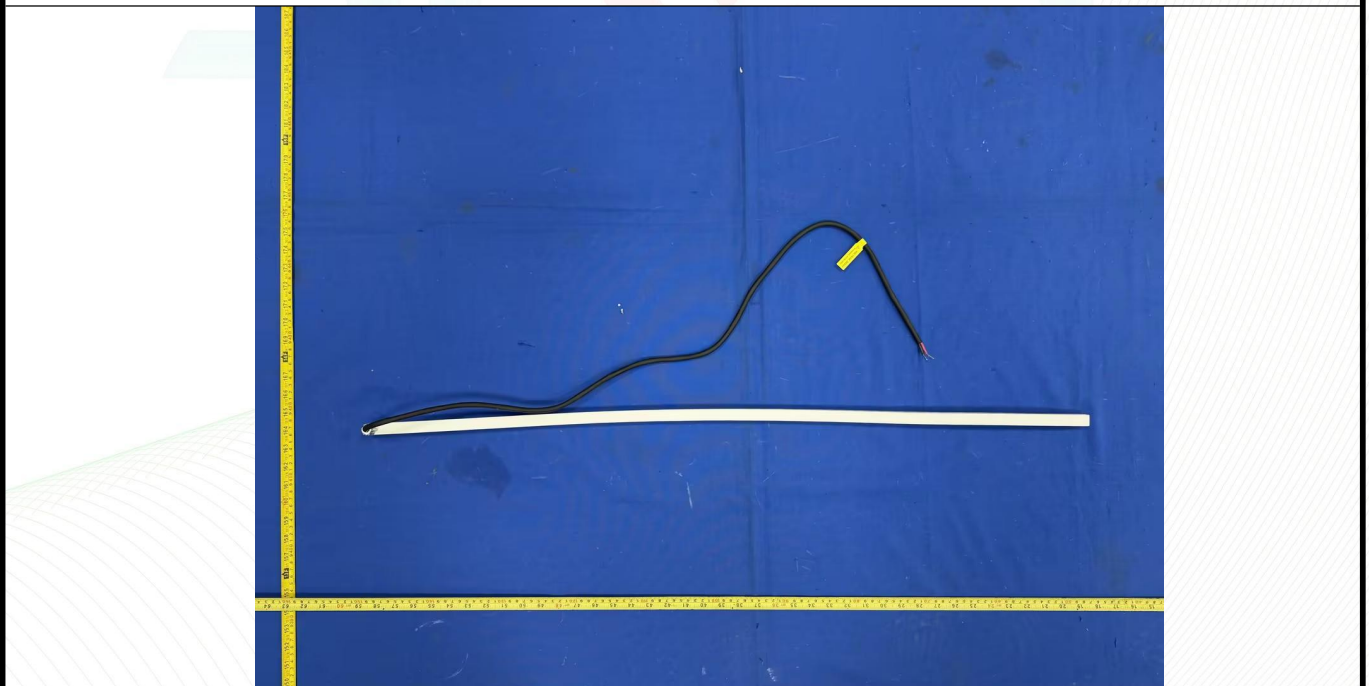


Photo Documentation:

Photo 3: IP6X test of model NeonLine-07_1615



Photo 4: IPX8 test of model NeonLine-07_1615



Photo Documentation:

Photo 5: Test result of IP6X and IPX8 test

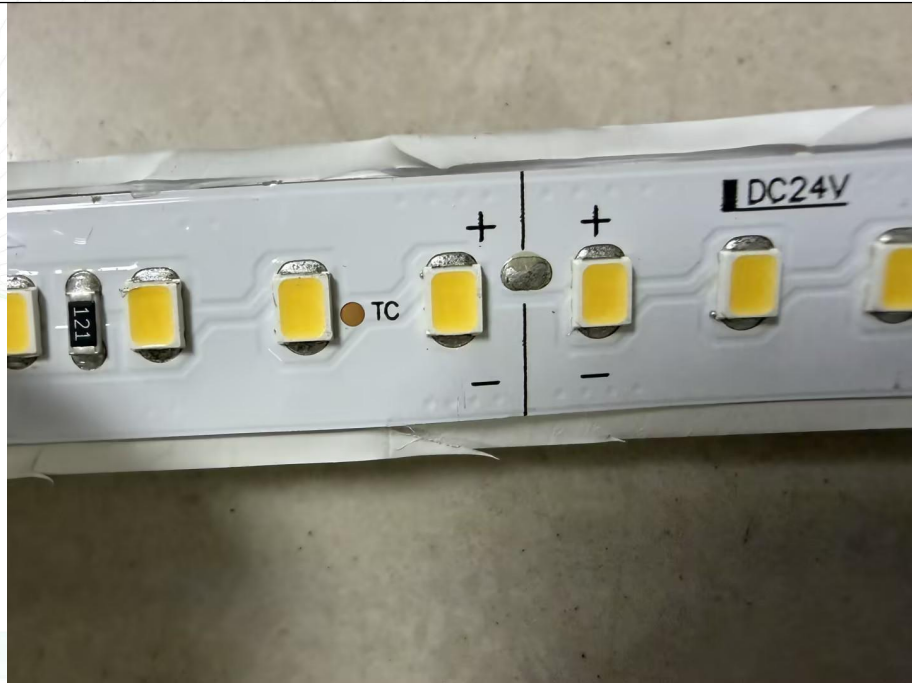


Photo 6: Test result of IP6X and IPX8 test



-----End of Test Report-----