

TEST REPORT

Kunde: <i>Client:</i>	Shanghai Jingtou Intelligent Technology Co., Ltd.
Adresse: <i>Address:</i>	Building 1, No.5601, Yanqian Highway, Fengxian District, Shanghai, China 201414
Hersteller: <i>Manufacturer:</i>	Shanghai Jingtou Intelligent Technology Co., Ltd.
Adresse: <i>Address:</i>	Building 1, No.5601, Yanqian Highway, Fengxian District, Shanghai, China 201414
Name der Marke: <i>Brand Name:</i>	N/A
Beschreibung des Produkts: <i>Product Description:</i>	Architectural Flexible Linear Lighting
Modelle: <i>Models:</i>	See model list
Bewertung: <i>Rating:</i>	See model list
Gegenstand der Prüfung: <i>Test item:</i>	IP67 Test
Verfahren: <i>Method:</i>	Clause 11.2 of IEC 60598-1:2024
Prüfergebnis*: <i>Test result*:</i>	Pass

Wareneingangsdatum: <i>Date of sample receipt:</i>	Datum der Prüfung: <i>Date of Test:</i>	Datum der Emission: <i>Date of Issue:</i>	Klassifizierung: <i>Classification:</i>
2025/11/07	2025/11/07	2025/11/10	Commission Test

Prüflabor (Testlabor) / Testing Laboratory:
Shenzhen Southern LCS Compliance Testing Co., Ltd.
Room 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Test von/Test by: <i>Rose Cao</i> Rose Cao/ Project Engineer	Check von/Check by: <i>Torres He</i> Torres He/ Director	Genehmigt von/Approved by: <i>Jesse Liu</i> Jesse Liu/ Manager
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Modified Information

Version	Report No.	Revision Date	Summary
V1.0	LCSB09265025S	/	Original Version

General product information:

- All models are identical except for the model name.
- Unless otherwise specified, the model FlexWash-06_3525-48 was chosen as representative model to perform all tests.

Model list:

Model	Rating
FlexWash-06_3525-48	DC24V
NeonLine-01_2020-15	
FlexWash-X_Y-Z	
NeonLine-X_Y-Z	
FlexGround-X_Y-Z	
FlexLine-X_Y-Z	
ArchFlex-X_Y-Z	
GlowLine-X_Y-Z	
Remark: Remark: X=01,02,03,04,05,06,07,08,09,10... Y= 3525, 2620, 2527, 2420, 2222, 2020, 1616, 3020, 2222, 2020,2016, 2014, 1220, 1018, 1617, 1616, 1615, 1515, 1414, 1313, 1212, 1010, 4965, 4073, 2163,dia50,dia40,dia25,dia18,dia16, dia13, dia8... Z= 48W,42w,40w,36w,32w,28w,24w,20w,18w,15w,12w,10w,8w,6w,5w...	



Equipment used during test:

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-031	Sand and dust test box	SC-500	2025/4/30
SLCS-S-040	Submersible test unit	X8	2024/12/14
SLCS-S-072	Torque Driver	26RTD	2025/4/27
SLCS-S-073	Hi-pot tester	AN9602M	2025/4/27
SLCS-S-062	Frequency Converter	AN97020TS	2025/4/27
SLCS-S-059	Digital Power Meter	PF9800	2025/4/27
SLCS-S-011	J Thermocouple	J	2025/4/28
SLCS-S-029	Temperature recorder	34970A	2025/4/30
SLCS-E-027	Temperature and humidity barometer	/	2025/4/22



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Test Item:

Tests for protection against dust-proof: IP6X

Test Method:

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

Temperature range: -40°C to 50°C.

Dust-proof luminaires and dust-tight luminaires(first characteristic IP numeral 6) shall be tested in a dust chamber similar to that shown in Figure 2, 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.

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/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

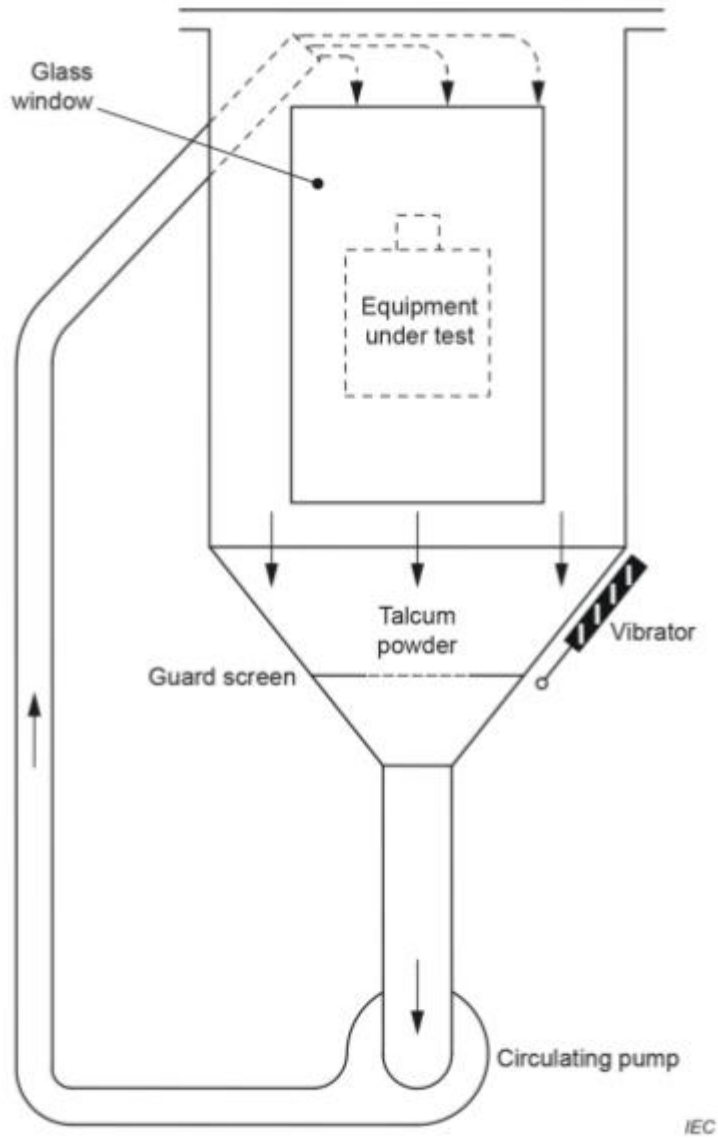


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IEC

Figure 40 – Apparatus for proving protection against dust



Test Item:

Tests for protection against ingress moisture: IPX7

Test Method:

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

Temperature range: 20°C to 30°C

Watertight luminaires (second characteristic IP numeral 7) are switched off and immediately immersed for 30 min in water, so that there is at least 150 mm of water above the top of the luminaire and the lowest portion is subjected to at least 1 m head of water. Luminaires shall be held in position by their normal fixing means. Luminaires for tubular fluorescent lamps shall be positioned horizontally, with the diffuser upwards, 1 m below the water surface.

NOTE: This treatment is not sufficiently severe for luminaires intended for operation under water.

Before the tests for the second characteristic numeral, with the exception of IPX8, the luminaire complete with lamp(s) shall be switched on and brought to a stable operating temperature at rated voltage.

The 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 IP, 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. The spacer shall be at least equal in overall size to the projection of the luminaire, and have dimensions as follows:

Longway of mesh	10 mm to 20 mm
Shortway of mesh	4 mm to 7 mm
Strand width	1,5 mm to 2 mm
Strand thickness	0,3 mm to 0,5 mm
Overall thickness	1,8 mm to 3 mm

Luminaires having provision for draining water by means of drain holes shall be mounted with the lowest drain hole open unless otherwise specified in the manufacturer's installation instructions.

If the installation instructions indicate that a luminaire is for ceiling or under-canopy mounting, the luminaire shall be attached to the underside of a flat board or plate which extends 10 mm beyond that part of the luminaire perimeter in contact with 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. A box encapsulating the part in the recess may be necessary for the test of IP.

Note: 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 millimetres. Screws fixing other caps shall be tightened with a torque equal to two-thirds of that specified in Table 5.



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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 creepage 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**



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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 IPX7 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 FlexWash-06_3525-48



Photo 2: Overall view of model FlexWash-06_3525-48



Photo Documentation:

Photo 3: IP6X test of model FlexWash-06_3525-48



Photo 4: IPX7 test of model FlexWash-06_3525-48

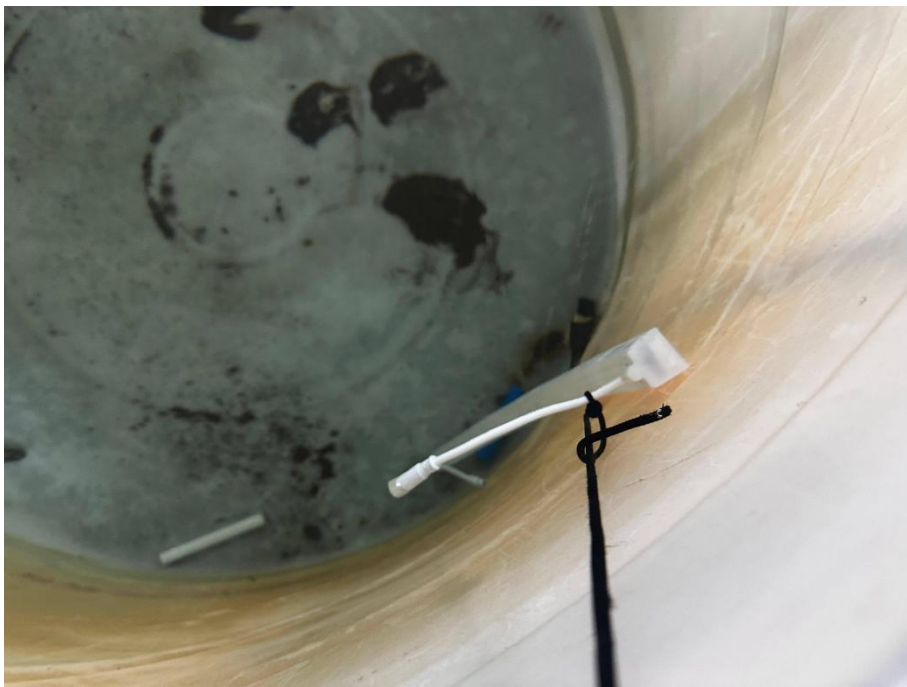


Photo Documentation:

Photo 5: Test result of IP6X and IPX7 test



Photo 6: Test result of IP6X and IPX7 test

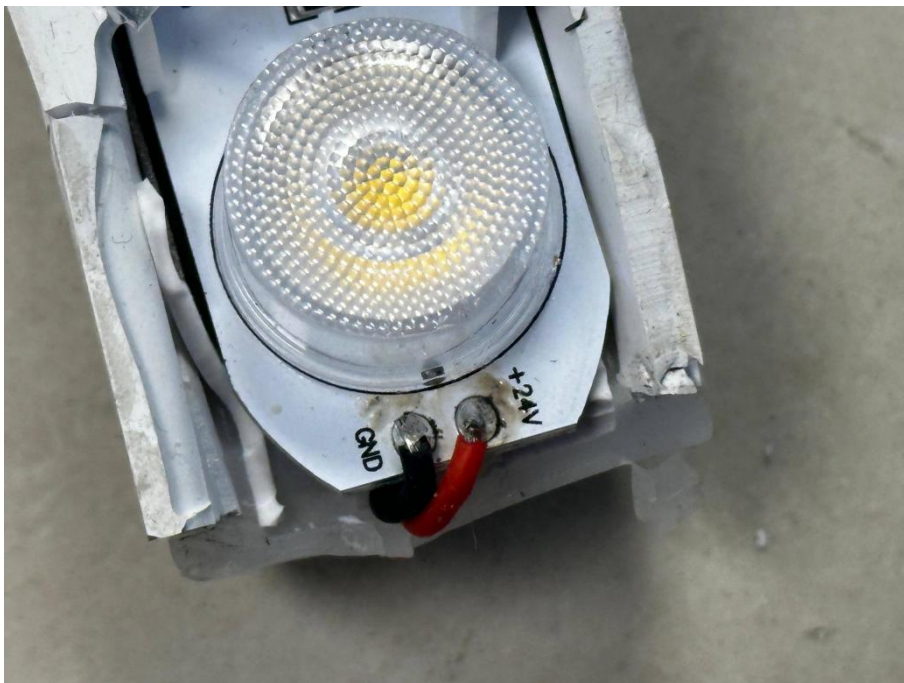
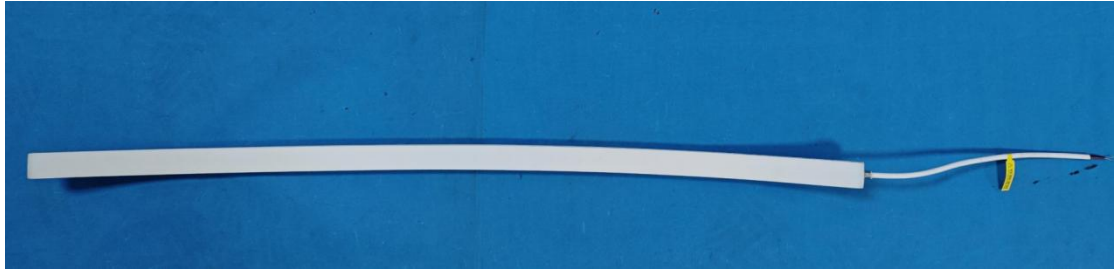


Photo Documentation:

Photo 7: Overall view of model NeonLine-01_2020-15



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

