



中国认可
国际互认
检测
TESTING
CNAS L9438

TEST REPORT

MEASUREMENT AND TEST REPORT For

BLUEVISION (SHENZHEN) OPTOELECTRONICS CO., LTD

2nd Floor, Building 6, Nangang 3rd Industrial Park, Tangtou, Shiyao Town, Bao'an District,
Shenzhen, China

Models:
L8989-NW45S

August 20, 2019

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Waterproof Linear Light Fixture
Test Standard:	IEC 60529:1989+A1:1999+A2:2013
Report Number:	CTB190820006S
Test Date:	August 19, 2019—August 20, 2019
Test category:	Consignment test
Prepared By:	Shenzhen CTB Testing Technology Co., Ltd. Floor 1&2, Building A, No. 26 of Xinghe Road, Xingqiao Community, Xingqiao Street, Baoan District, Shenzhen, Guangdong, China Tel: 4008-258-120 E-mail: ctb@ctb-lab.com Web: http://www.ctb-lab.com

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen CTB Testing Technology Co., Ltd.

TEST REPORT**IEC 60529****Degrees of protection provided by enclosures(IP code)**

Report reference No..... : CTB190820006S

Date of issue..... : August 20, 2019

Testing laboratory

Name Shenzhen CTB Testing Techonology Co., Ltd.

Address..... : Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China

Testing location..... : Same as above

Client

Applicant..... : BLUEVISION (SHENZHEN) OPTOELECTRONICS CO., LTD

Address..... : 2nd Floor, Building 6, Nangang 3rd Industrial Park,Tangtou, Shiyan Town, Bao'an District, Shenzhen, China

Test specification

Standard..... : IEC 60529:1989+A1:1999+A2:2013

Procedure deviation..... : N/A

Non-standard test method.... : N/A

Object under test..... : Waterproof Linear Light Fixture

Model/Type reference..... : L8989-NW45S

Others Model..... : /

Trade mark..... : BLUEVISION

Manufacturer..... : BLUEVISION (SHENZHEN) OPTOELECTRONICS CO., LTD

Address..... : 2nd Floor, Building 6, Nangang 3rd Industrial Park,Tangtou, Shiyan Town, Bao'an District, Shenzhen, China

IP degrees..... : IP66

Possible test case verdicts

- test case does not apply to the test object..... : N(Not Applicable)

- test object does meet the requirement..... : P(Pass)

- test object does not meet the requirement..... : F(Fail)

Date of receipt of test item..... : August 19, 2019

Date(s) of performance of tests..... : August 19-20, 2019

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.

Comments:

- The First characteristic number 6 indicates prevent solid foreign objects test
The conditions:
 1. Test duration:8h
 - 2.Equipment pressure:<2kPa
- The second characteristic number 6 indicates the water spray test
The conditions:
 1. The sample is placed on the rotary table and fixed in the normal service state, and water is sprayed on the shell of the sample in all directions with the specified test nozzle.
 2. nozzle diameter: 12.5mm;
 3. Water flow rate :(100±5)L/min;
 4. Water pressure: regulate water flow according to regulations;
 5. Distance from nozzle to sample surface: 2.5m to 3m;
 6. Duration: 3 min.

Summary of testing:

The submitted sample were tested and found to compliance with requirements of the standards IEC 60529:1989+A1:1999+A2:2013

Testing procedure and testing location

Laboratory name..... : Shenzhen CTB Testing Technology Co., Ltd.

Testing location/address: : Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China

Testing procedure : TL RMT SMT WMT TMP

Tested By : As Chi
(Test Engineer) *As chi*

Reviewed By : Note Lu
(Supervisor) *Note Lu*

Approved By : Simon Lee
(Chief Engineer)

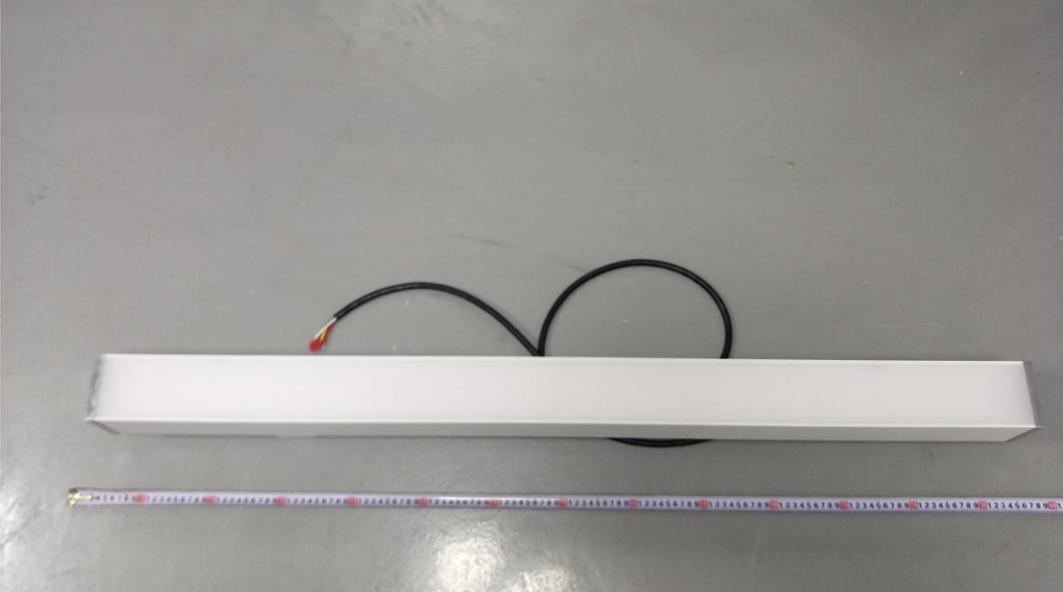


IEC 60529			
Clause	Requirement – Test	Result - Remark	Verdict
11	General requirements for tests		P
11.1	Atmospheric conditions for water or dust tests	25.0°C, 50%R.H.	P
11.2	Test samples		P
11.3	Application of test requirements and interpretation of test results		P
11.4	Combination of test conditions for the first characteristic numeral	IP66	P
11.5	Empty enclosures		N
12	Test for protection against access to hazardous parts indicated by the first characteristic numeral		N
12.1	Access probes		N
12.2	Test conditions		N
12.3	Acceptance conditions		N
12.3.1	For low-voltage equipment. (Rated voltage not exceeding 1000V a.c. and 1500V d.c.)		N
12.3.2	For high-voltage equipment (Rated voltage exceeding 1000V a.c. and 1500V d.c.)		N
12.3.3	For equipment with hazardous mechanical parts		N
13	Test for protection against solid foreign objects indicated by the first characteristic numeral		P
13.1	Test means		P
	Test means and the main test conditions are given in table 7		N
13.2	Test conditions for first characteristic numerals 1, 2, 3, 4		N
13.3	Acceptance conditions for first characteristic numerals 1, 2, 3, 4		N
13.4	Dust test for first characteristic numerals 5 and 6	IP6X	P
13.5	Special conditions for first characteristic numeral 5		N
13.5.1	Test conditions for first characteristic numeral 5		N
13.5.2	Acceptance conditions for first characteristic numeral 5		N
13.6	Special conditions for first characteristic numeral 6		P
13.6.1	Test conditions for first characteristic numeral 6		P
13.6.2	Acceptance conditions for first characteristic numeral 6		P

IEC 60529			
Clause	Requirement – Test	Result - Remark	Verdict
14	Test for protection against water indicated by the second characteristic numeral		P
14.1	The test means and the main test conditions are given in table 8		P
14.2	Test conditions		P
	Test means and main test conditions are given in table 8		P
	During the tests for IPX1 TO IPX6 the water temperature should not differ by more than 5K from the temperature of the specimen under test		P
	For IPX7 details of the water temperature are given in 14.2.7		N
	Test for second characteristic numeral 8, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use		N
14.2.1	Test for second characteristic numeral 1 with the drip box		N
14.2.2	Test for second characteristic numeral 2 with the drip box		N
14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle		N
14.2.4	Test for second characteristic numeral 4 with oscillating tube or spray nozzle		N
14.2.5	Test for second characteristic numeral 5 with the 6.3mm nozzle		N
14.2.6	Test for second characteristic numeral 6 with the 12.5mm nozzle	IPX6	P
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15m and 1m		N
	The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied		N
	a) the lowest point of enclosures with a height less than 850mm is located 1000mm below the surface of the water		N
	b) the highest point of enclosures with a height equal to or greater than 850mm is located 150mm below the surface of the water		N
	c) the duration of the test is 30min		N
	d) the water temperature does not differ from that of the equipment by more 5K		N

IEC 60529			
Clause	Requirement – Test	Result - Remark	Verdict
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		N
14.3	After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.8 the enclosure shall be inspected for ingress of water		N
	It is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test		N
	In general, if any water has entered, it shall not:		N
	–be sufficient to interfere with the correct operation of the equipment or impair safety		N
	–deposit on insulation parts where it could lead to tracking along the creepage distances		N
	–reach live parts or windings not designed to operated when wet		N
	–accumulate near the cable end or enter the cable if any		N
	If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment		N
	For enclosure without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts		N
15	Test for protection against access to hazardous parts indicated by the additional letter		N
15.1	Access probes	No additional letter	N
	The access probe are given in table 6		N
15.2	Test conditions		N
	The access probe is pushed against any openings of the enclosure with the force specified in table 6		N
15.3	Acceptance conditions		N
	Test for the additional letter B		N
	Test for the additional letter C and D		N

Appendix
Photo documentation

<p>Photo 1</p> <p><input checked="" type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p>	
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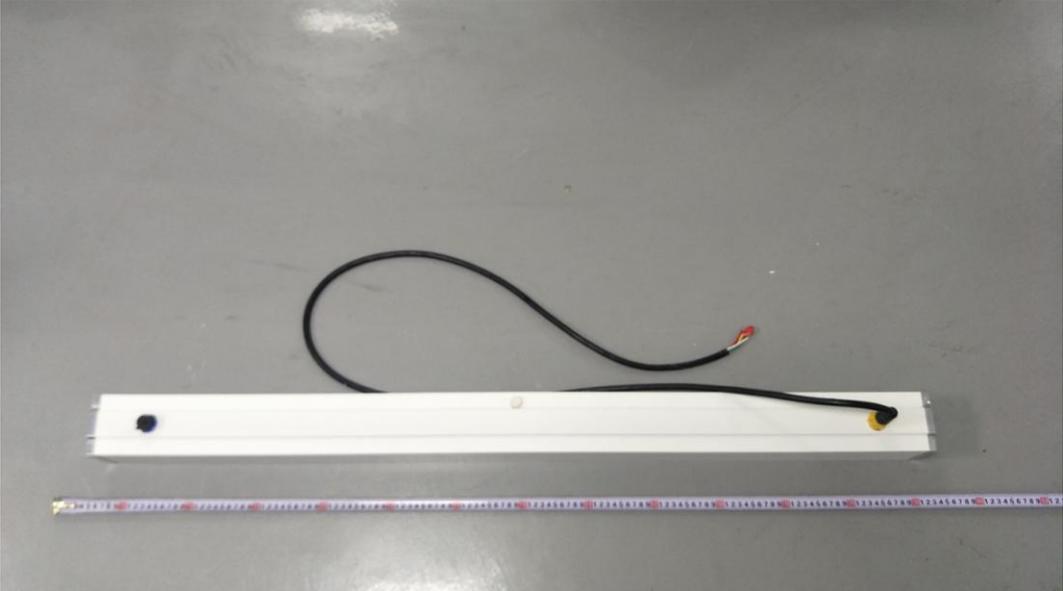
<p>Photo 2</p> <p><input type="checkbox"/> front</p> <p><input checked="" type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p>	
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Photo documentation

Photo 3

View:
Dust-proof test

- front
- rear
- right side
- left side
- top
- bottom
- internal



Photo 4

View:
Waterproofing test

- front
- rear
- right side
- left side
- top
- bottom
- internal



Photo documentation**Photo 5**

View:
Dustproof test chamber

front

rear

right side

left side

top

bottom

internal

**Photo 6**

View:
Waterproof test equipment

front

rear

right side

left side

top

bottom

internal



*****End of the report*****