



Test Report

Sample Name	: LWW-OP-D80
Sample Model	: LWW-OP-D80-L6, LWW-OP-D80-L3, LWW-OP-D80-L12
Inspection Classification	: Commission test
Manufacturer	: TPK OPTOELECTRONIC TECH CO.,LTD
Client	: TPK OPTOELECTRONIC TECH CO.,LTD



Guangzhou LCS Compliance Testing Laboratory Ltd.



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Test Report

Client : TPK OPTOELECTRONIC TECH CO.,LTD

Address : Building 1-2, No. 10, Dacheng Road,Dongfeng Town, Zhongshan City, Guangdong Province P.R. China

Manufacturer : TPK OPTOELECTRONIC TECH CO.,LTD

Address : Building 1-2, No. 10, Dacheng Road,Dongfeng Town, Zhongshan City, Guangdong Province P.R. China

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client:

Sample Name : LWW-OP-D80

Sample Model : LWW-OP-D80-L6, LWW-OP-D80-L3, LWW-OP-D80-L12

Sample Quantity : 2PCS

Sample tested Status : Normal

Sample received Date : May 27, 2024

Sample tested Date : May 28, 2024

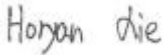
Remark : Customer Declaration: All models are identical including the structure, circuit diagram; Only the sample power is different.The report choose the model LWW-OP-D80-L6 as the main test model.Other models testing result refer to the model LWW-OP-D80-L6.

Test result information:

Test item : IP69K

Test standard : ISO 20653:2013

Test result : PASS

Edited by	 Horyan Xie	Checked by	 Heal Chen	Approved by	 Kizard Zhang
	May 29, 2024		May 29, 2024		May 29, 2024



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Revise Record

[illegible]

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Test Item1: IP6KX

1) Environment conditions:

Temperature: 24.7°C Humidity: 54%RH

2) Tested Sample:

Sample No.	Sample Name	Sample Model	Sample Quantity	Sample Description
C240524004-001	LWW-OP-D80	LWW-OP-D80-L6	1PC	Normal

3) Reference Basis: ISO 20653:2013

4) Test Condition:

1. Dangerous parts protection test:

- 1) The test probe of 1 mm diameter is pushed against any opening of the sample with force of 1N.

2. Solid foreign body protection test:

- 1) Dust type: Arizona dust;
- 2) Dust content of dust tester: 2kg/m³;
- 3) Test duration: A, Blowing dust 6 s; B, Stop for 15 minutes.A + B is a cycle, total 20 cycles.

3. Judgment requirements: After the test, no test dust enter into the sample and the function is normal.

5) Test Equipment:

Sequence	Equipment Name	Equipment No.	Valid Date to
1	Dust test chamber	GLCS-S-227	Aug.13, 2024
2	IP4X standard probe	GLCS-S-255	May 9, 2025

6) Test Results:

Sample No.	Test Result	Judgment
C240524004-001	After the test, no test dust enter into the sample and the function is normal.	PASS



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Test Report

Sample Photo before the Test:



C240524004-001 Appearance Inspection



C240524004-001 Function Inspection

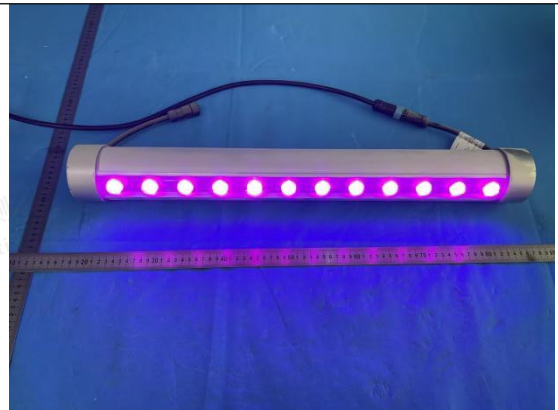
Sample Photo during the Test:



Sample Photo after the Test:



C240524004-001 Appearance Inspection



C240524004-001 Function Inspection



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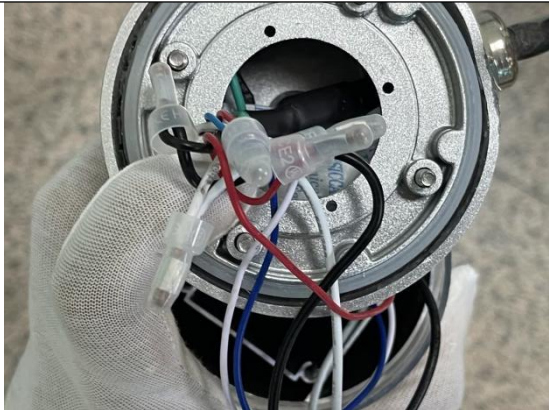
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Test Report

Sample Photo after the Test:



C240524004-001 Internal inspection





Test Report

Test Item2: IPX9K

1) Environment conditions:

Temperature: 24.8°C Humidity: 55%RH

2) Tested Sample:

Sample No.	Sample Name	Sample Model	Sample Quantity	Sample Description
C240524004-002	LWW-OP-D80	LWW-OP-D80-L6	1PC	Normal

3) Reference Basis: ISO 20653:2013

4) Test Condition:

Water temperature	80±5°C
Pressure	(8000~10000kPa)
Water flow	14~16L/min
Distance	10~15CM
Angle and time	0°, 30°, 60°, 90°, 10S per angle.Total four cycles.
Sample mounting angle	90°, 180°, 270°, 360°.An angle is a cycle.

Judgement requirements: After the test, no water enter into the sample and the function is normal.

5) Test Equipment:

Sequence	Equipment Name	Serial No.	Valid Date to
1	IPX9K rain test chamber	GLCS-S-228	Aug.13, 2024

6) Test Results:

Sample No.	Test Result	Judgment
C240524004-002	After the test, no water enter into the sample and the function is normal.	PASS



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Sample Photo before the Test:



C240524004-002 Appearance Inspection



C240524004-002 Function Inspection

Sample Photo during the Test:



90°



180°



270°



360°



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Sample Photo during the Test:



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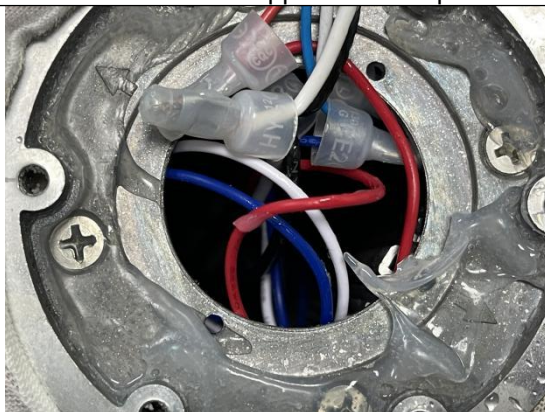
Sample Photo after the Test:



C240524004-002 Appearance Inspection



C240524004-002 Function Inspection



C240524004-002 Internal Inspection

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NOTES:

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4. Report will be invalid if altered.
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**** End of Report ****



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