Report No.: SQT2211049 Version No.: V0



TEST REPORT

Applicant Name & Address:	GUANGZHOU HOBART LIGHTS LIMITED No. 1 Chuangjia Road, Baiyun District, Guangzhou City, Guangdong Province, China,510080	
Manufacturer Name & Address:	GUANGZHOU HOBART LIGHTS LIMITED No. 1 Chuangjia Road, Baiyun District, Guangzhou City, Guangdong Province, China,510080	
Product Name:	LED Scene Light	
Model No.:	SL1-1	
Variants:	SL1-2、SL1-3、SL1-4	
Trade mark:	Hobart Lights	
Electrical Rating:	DC 12V/24V	
Date Received:	31- October -2022	
Date Test Conducted:	04- November -2022~08- November -2022	
Report No.:	SQT2211049	
Prepared by:	Guangzhou Shuntai Quality Technical Service Co., Ltd.	
Test Standard(s):	ISO 20653-2013: Road vehicles — Degrees of protection (IP code) — Protection of electrical equipment against foreign objects, water and access	
Test Result:	Pass	

Conclusion: In the configuration tested, the EUT complied with the standards specified above.

Prepared and Checked By:

Sam Ye Project Engineer



Note: The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested.

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1. Description of version

Report No.	Version No.	Issue Date	Description	Approved
SQT2211049	V0	11-November-2022	Original	Valid

Guangzhou Shuntai Quality Technical Service Co., Ltd.

2. Test summary

Test Item	Test Method	Result	
IP6KX Test	ISO 20653-2013	Correct	
IPX9K Test	150 20033 2013	Correct	
Remark:			
1. The symbol "N/A" in above table means <u>N</u> ot <u>Applicable</u> .			

2. When determining the test results, measurement uncertainty of tests has been considered.

3. LABORATORY MEASUREMENTS

3.1 Configuration Information

on comparation morman			
Product name	LED Scene Light		
Category	Component		
Model No.	SL1-1		
Variants	SL1-2、SL1-3、SL1-4 The above models have the same circuit design, wiring diagram and components except for different model names and connectors		
Software version/ Hardware version	N/A		
Sample Shape	Square /Round/Irregular/Others		
Sample Type	Mini/Small/Small and medium/Medium/Large		
Quantity of sample	1pcs		
Sample No.	1# Q2210097-001		
Packing status	Outer packing/ No packing		
Sample quality before test	Conformity product/Non comformity product		

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 Explanation of test method deviation

The test method deviates from the standard method: yes/no

If yes, please explain in details: ---

4. IP69K TEST

4.1. Test Requirement

IP6KX (Protection against access to hazardous parts): The probe with a diameter of 1.0 mm does not enter the specimen case.

IP6KX (Protection against solid foreign objects): Dust shall not penetrate.

IPX9K test (Execution of the tests for protection against ingress of water): No harmful effects or impair performance, no water enters the inside of the sample.

4.2. Used Test Equipment

Equipment	Equipment No.	Manufacturer	Model No.	Calibration Due
Dust Test Device	GZST/YQ-HJ-02	AUCHNO	OJN-9608	2023-07-10
IP4X Test Tool	GZST/YQ-HJ-11	СН	CH-I04	2023-02-09
High Temperature& Pressure Jet Waterproof Test Chamber	GZST/YQ-HJ-14	JYOTS	JY-FS9B-1000L	2023-02-09
DC Power Supply	GZST/YQ-EMC-16	UNIT	UTP1306S	2023-07-06

4.3. Test Setup and Procedure

1) IP6KX (Protection against solid foreign objects) Test conditions

The sample was subjected to a metal protection test using a metal probe having a diameter of 1.0 mm

Dimensions in millimetres



Key:

- 1 handle (insulating material)
- 2 stop face (insulating material)
- 3 rigid test wire (metal) (edges free from burrs)

2) IP6KX (Dust-tight) Test conditions

Dust: talcum powder;

Dust concentration: 2kg/m³;

Test time: 6s movement of the air/dust mixture, 15 min break, 20 such cycles shall be performed



3) IPX9K (Protected against the effects of temporary immersion in water) test conditions



r/min spray at 0°,30°,60°,90° Distance: (100 to 150) mm;

The sample is set up speed (5 ± 1)

Water flow rate:

(14 to 16) L/min;

Water pressure:

approx.(8000 to 10000) kPa;

Water temperature:

(80±5)°C;

Exposure time: 30s per position.

- 1 fan jet nozzle
- 2 DUT
- 3 turntable/holder
- 4 swivel axis
- 5 reference points $(0^{\circ}, 30^{\circ}, 60^{\circ}, 90^{\circ})$ endorsing cylinder for DUT
- 6 position 1 7 position 2

8

- F ------
- position 3
- 9 position 4

4.4. Test Results

Results:	Pass
Test Level:	ІР69К
Test Date:	04/11/2022~08/11/2022
Temperature and humidity:	26.8°C/52%RH

IP6KX (Protection against solid foreign objects)

The probe with a diameter of 1.0 mm does not enter the specimen enclosure and adequate clearance shall be kept.

Conclusion

No damage to the sample before and after the test. The function of sample is normal before and after the test. Meet the requirement.

IP6KX (Dust-tight)

After the test, the protection is satisfactory, no dust is observable inside the enclosure, the function is normal.

Conclusion

No damage to the sample before and after the test. The function of sample is normal before and after the test. Meet the requirement.

IPX9K (Protected against the effects of temporary immersion in water) test

After the waterproof test, there is no water inside the sample, the function is normal.

CORRECT

Conclusion

No damage to the sample before and after the test. The function of sample is normal before and after the test. Meet the requirement.

4.5. Test Photos

IP6KX



Fig.1-1 Before test



Fig.1-2 Function check before test



Fig.1-3 Function check before test



Fig.1-4 IP6KX during test



Fig.1-5 Before IP6KX test



Fig.1-6 After IP6KX test



IPX9K



Fig.1-7 Before IPX9K test



Fig.1-9 After IPX9K test



Fig.1-8 IPX9K during test



Fig.1-10 IPX9K Setup



Fig.1-11 After test



Fig.1-12 Function check after test

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Fig.1-13 Function check after test

5. Photographs of EUT





EUT photo 2





Statement

- 1. The report is invalid without "special stamp for inspection and testing".
- 2. Failure to affix "special seal for inspection and testing" to the copy report is invalid, and some copies are invalid.
- 3. The report is invalid without the signature and seal of the person preparing, reviewing and approving it.
- 4. The report is invalid if altered.
- 5. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report
- 6. This test is only responsible for incoming samples, and the report is only valid for this test.

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