



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

Measurement and Test Report

For

BAREBONES SYSTEMS,LLC.

1215 East Wilmington Avenue-Ste. 140 Salt Lake City, UT 84106

Test model: LIV-273-Antique

Serial model: LIV-274-Red, LIV-275-Copper

This Report Concerns:

☒ Original Report

Equipment Type:

Mini Edison Lantern

IP code: IPX4

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Test Date: 2019-11-29

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

The BAREBONES SYSTEMS,LLC.'s product, "EUT" as referred to in this report is a Mini Edison Lantern. Test model is LIV-273-Antique The multiple models are LIV274-Red, LIV275-Copper, All of the models are identical structure and packaging, different color, and different model names, "EUT" was received at 2019.11.22 and in good condition.

1.2 Objective

The following Declaration of Conformity of a device is prepared on behalf of the BAREBONES SYSTEMS,LLC. in accordance with IEC 60529:1989+A1:1999+A2:2013, Degrees of protection provided by enclosures (IP code). The objective of the manufacturer is to demonstrate compliance with IEC 60529:1989+A1:1999+A2:2013 Currently, IEC 60529:1989+A1:1999+A2:2013 tests to be performed. They are as follows:

- Test for protection against spraying and splashing water (IPX4) (CLAUSE 14.2.4).

Data has been collected, reduced, and analyzed within this report in accordance with IEC 60529:1989+A1:1999+A2:2013. In order to demonstrate compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with IEC 60529:1989+A1:1999+A2:2013, Degrees of protection provided by enclosures (IP code). All measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

1.5 Test Equipment List

S/N	Manufacturer and Model	Instrument Type	Instrument I.D	Cal. Last Date	Cal. Due Date
1	Yuan da/0.4-4m3/h	Flow meter	59019	2019-3-8	2024-3-7
2	Feitianrui/FTR-8102A	Swing pipe rain test device	201006	2016-03-01	2021-02-28

1.6 Equipment Under Test (EUT)

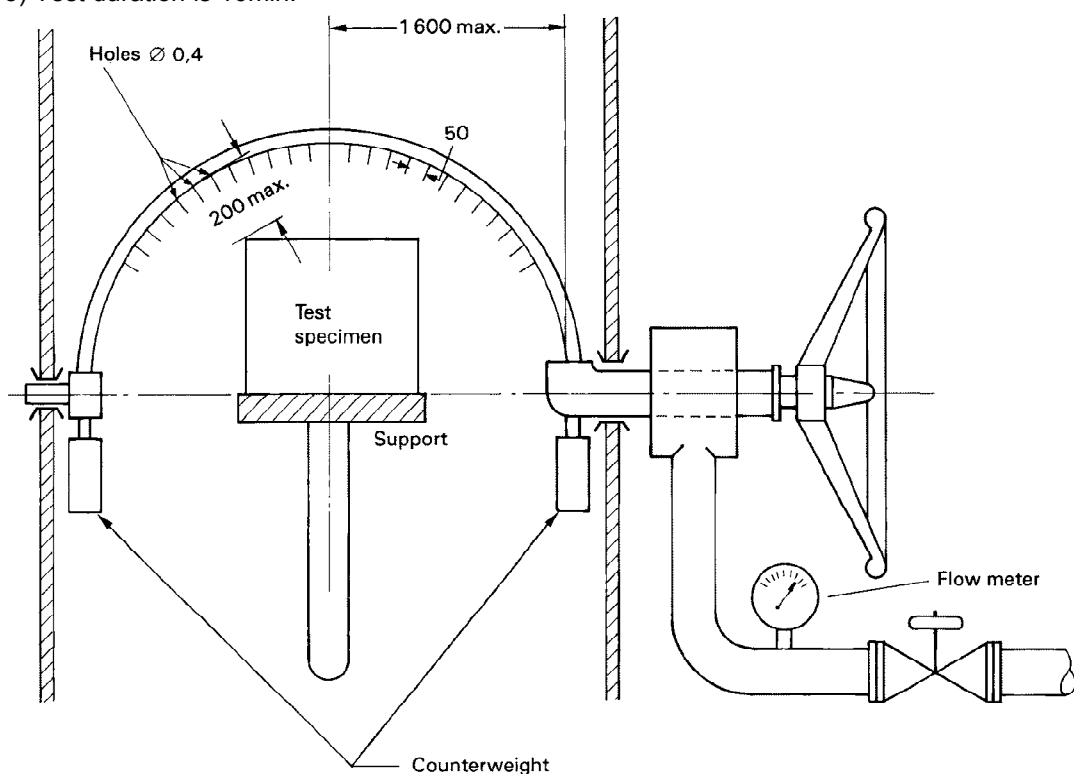
Manufacturer	Description	Model	Brand Name
BAREBONES SYSTEMS,LLC.	Mini Edison Lantern	LIV-273-Antique	N/A
Manufacturer address	1215 East Wilmington Avenue-Ste. 140 Salt Lake City, UT 84106		

2 - Test for protection against water characteristics numerals 4(IPX4) (CLAUSE 14.2.4)

2.1 Method

Test device to verify protection against spraying water (oscillating tube) like the follow figure.

- 1) Spray $\pm 180^\circ$ from vertical, distance max.200mm;
- 2) 0.07l/m $\pm 5\%$ per hole, multiplied by number of holes;
- 3) Test duration is 10min.



IEC 282/01

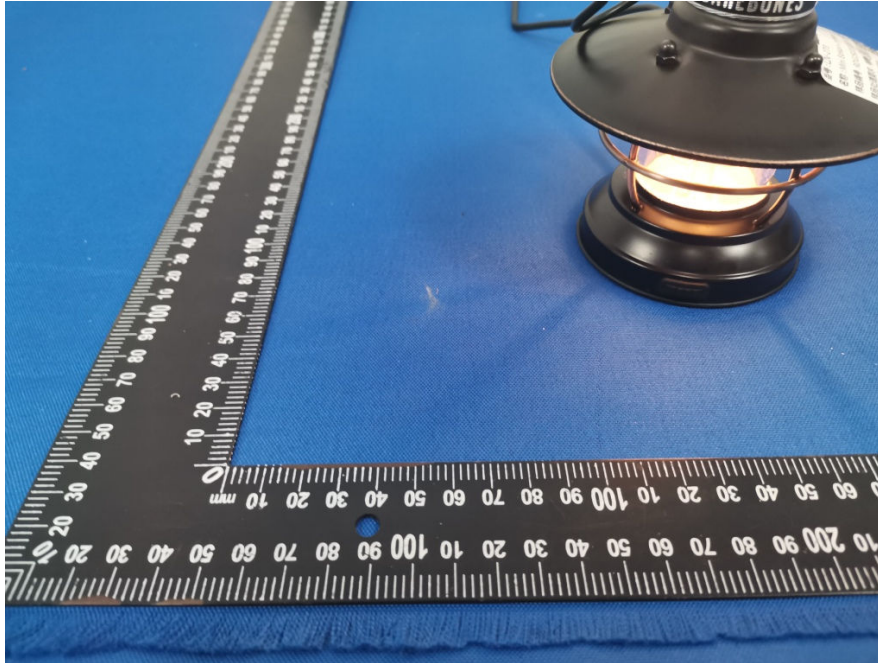
2.2 Results

- (x) No water accumulated inside the enclosure.
- (x) The EUT complies with the requirement for protection against water characteristics numerals 4 (IPX4) (CLAUSE 14.2.4)

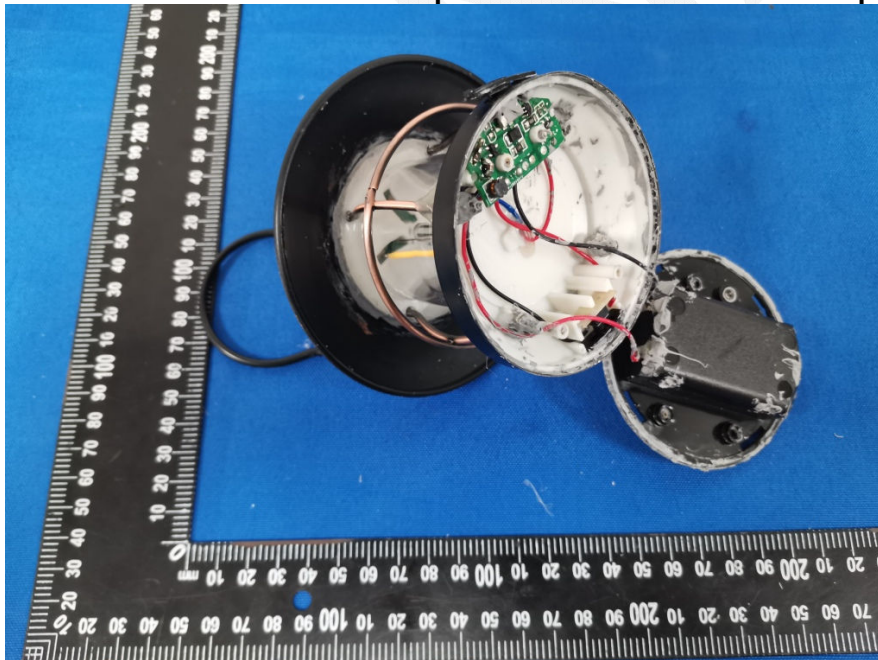
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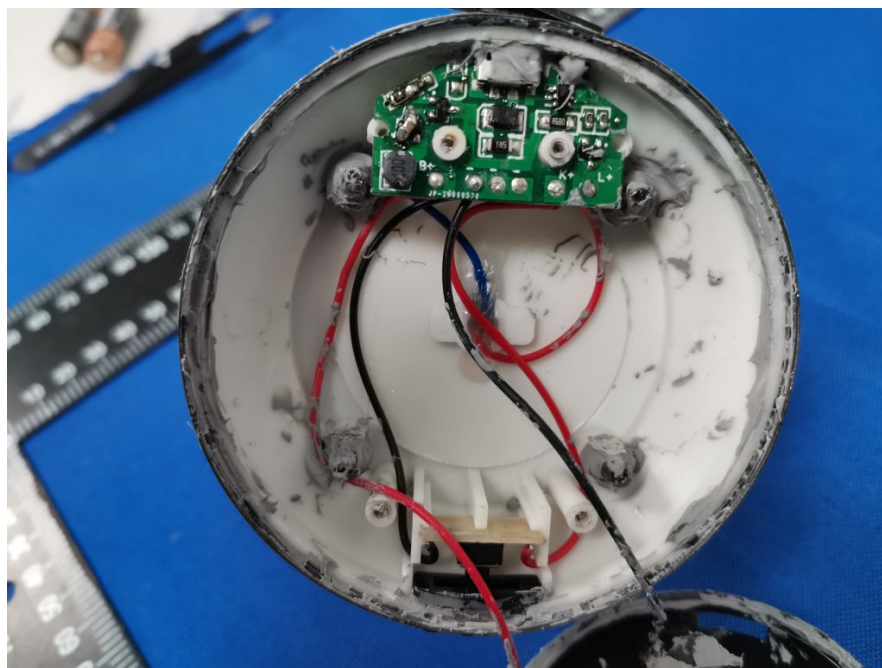
3 - EUT PHOTOGRAPHS

3.1 EUT- Initial view



3.2 EUT- Inside view: no water splashed into the unit after the spraying water test (IPX4).





Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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