

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-257

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Vintage Flashlight
IP code: <u>IPX4</u>	
Compiled by: <u>Jamie Li</u>	
Test Date: <u>2020-02-18</u>	
Date of issue: <u>2020-02-19</u>	
Reviewed by: <u>Andrew Luo</u>	
Prepared By: Bay Area Compliance Laboratories Corp. (Dongguan) No.69, Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China	

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

BAREBONES SYSTEMS,LLC product, "EUT" as referred to in this report is a Vintage Flashlight and the model is LIV-257.

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/0.4-4m ³ /h	Flow meter	T-08-SF061-4	2019-03-08	2024-03-07
2	Feitianrui/FTR-8102A	Swing pipe rain test device	T-08-SF061	2016-03-01	2021-02-28

1.6 Equipment Under Test (EUT)

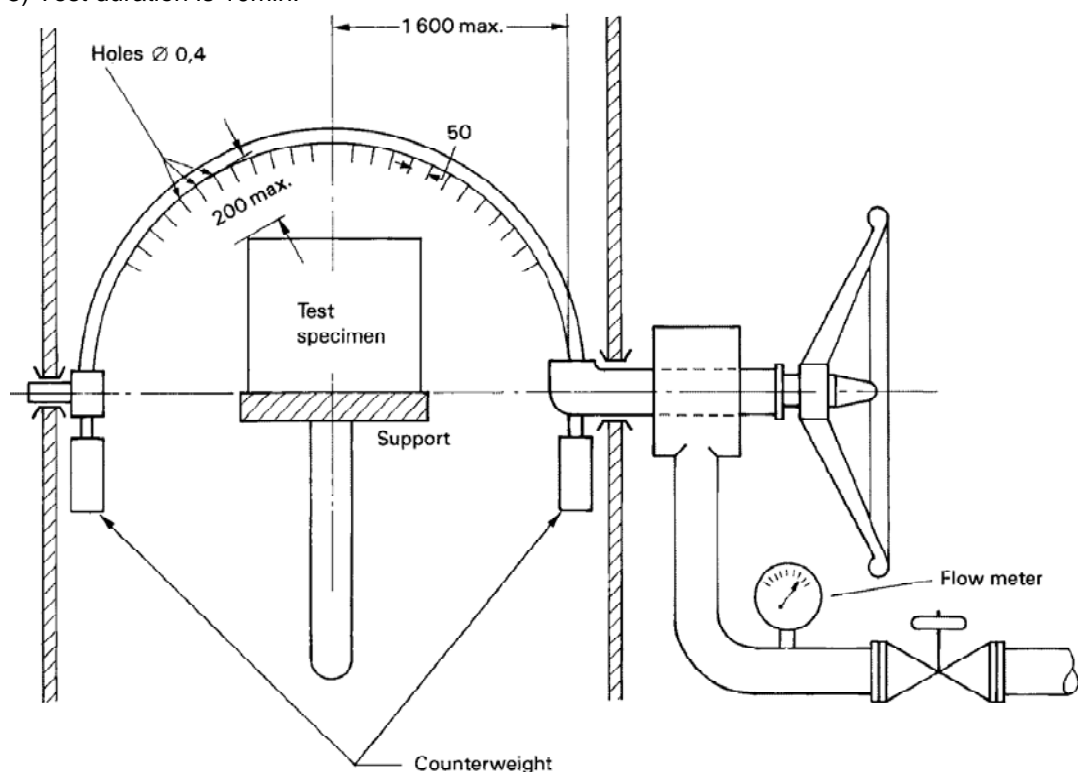
Manufacturer	Description	Model	Brand Name
BAREBONES SYSTEMS,LLC	Vintage Flashlight	LIV-257	N/A
Manufacturer address	1215 East Wilmington Avenue-Ste. 140 Salt Lake City, UT 84106		

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.



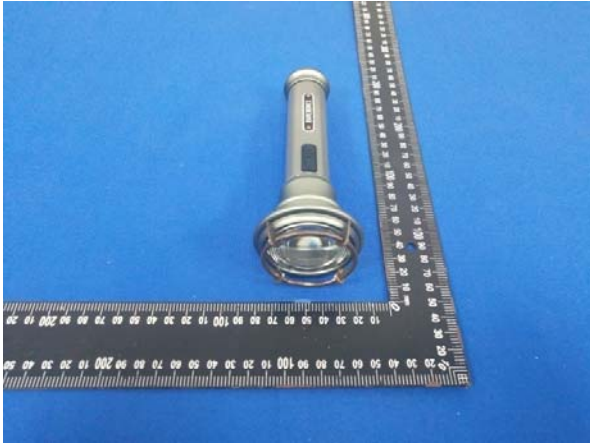
IEC 282/01

2.2 Results

- (x) After test, the sample function is normal, 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)
- Pass**

3 - EUT PHOTOGRAPHS

3.1 EUT- General view



3.2 EUT-Testing photo



3.3 EUT- Interior view: after the IPX4 test, No water accumulated inside the enclosure.





Directions

1. 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.
2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
4. 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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