

TEST REPORT

Applicant: Limitless Innovations
4800 Metalmaster way ,Mchenry ,IL 60050

Number: 190228111GZU-001
Date: March 7, 2019

Sample Description

Product/ Model No. : Portable light/ ASL-090, LMLOGY-SMSL-001 & LMLOGY-SMSL-002
Electrical Rating : -
No. of Samples : 1 pcs
Buyer : -
Manufacturing Name : Mushashi
Manufacturing Address : -
Trade Name : Limitness Innovations
Goods Exported To : USA
Date Received : February 28, 2019
Date Test Conducted : February 28, 2019 to March 7, 2019
Test Requested : Only conducted "Beam distance" test per client required, see test datasheet for detail.
Test Method : See the attached sheets.
Test Results : See the attached sheets.
Conclusion : The submitted samples **Pass** with the above test requested.

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- When determining the test conclusion, the Measurement Uncertainty of test has been considered
- The evaluation data of the report will be kept for 3 years from the date of issuance.
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Test(s) Conducted (test property according to protocol)

Test Property	Result	Comments/ Remarks
Beam distance	See test data	-

Executive Summary:

Fail item:

-Nil.

Remark:

-Conduct the Beam distance only per client's requirement.

Test Items	Testing Method	Requirement / Limit	Test Result
Beam distance	NEMA FL-1 2009	<p>Lab conditions shall be a controlled temperature of 22 ± 3 °C and a relative humidity of 50% nominal, 80% maximum.</p> <p>Ambient light conditions shall be the minimum of the following two options: 1 lux or no more than 10% of the lowest value measured during any test.</p> <p>If the device has variable focusing or adjustable beam angle, the beam distance will be measured at the focus level or beam angle that produces the maximum beam distance or as otherwise identified.</p> <p>Place the light measuring device at a test distance of either 2 or 10 or 30 meters from the front of the surface of the lens of the device to be tested. The test distance chosen shall be at least 10 times the largest dimension of the device's lens or output height or width.</p> <p>Use the light measuring device to identify and record the highest indicated value.</p> <p>Measurements shall be taken 30 s to 2 min of turning on the device.</p> <p>Use the Inverse Square Law to calculate the beam distance to 0.25 lux as follows: $\text{Surface light intensity} \times (\text{distance})^2 = \text{peak beam intensity}$ $\sqrt{(\text{peak beam intensity} / 0.25)} = \text{Max Beam Distance}$ where: Surface light intensity is in lux (lx) Distance and Max Beam Distance are in meters (m) Peak beam intensity is in candela (cd)</p> <p>The published figure shall be the average of the results of the three devices tested. Round to whole numbers following standard rounding rules.</p>	<p>Record</p> <p>Measured: 19m</p>

Appendix I



*****End of Report*****