

# Calibrated Firefly Light Measurement Data Sheet : Firefly #1

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## General Information

Date : 4/12/2025

Time : 01.50 am

Location (City/Region) : Sungai Petani, Kedah, Malaysia

Approx. Temperature : 27 C

Lux Meter Model : Digital Lux Model

LED/Light Source Model : COB Rechargeable Keychain Light (Not Use)

Experimenter Name : Muhammad Naqiudeen Yunus

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## Firefly Data Summary

Total Fireflies Tested : 1

Distances Used : 10 cm and 2–3 cm from sensor

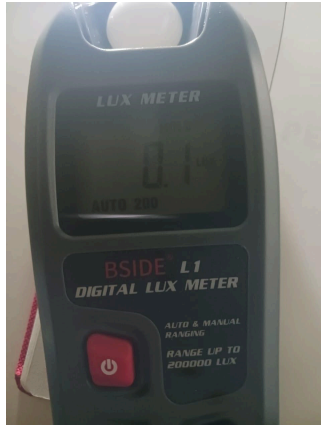
Lux Readings per Distance : 10–20 flashes (record maximum per flash)

**Distance: 10 cm**

<b>Flash No.</b>	<b>Peak Lux Value</b>	<b>Notes (e.g., brightness pattern)</b>
1	0.0	too dim for the sensor to register.
2	0.0	too dim for the sensor to register.
3	0.0	too dim for the sensor to register.
4	0.0	too dim for the sensor to register.
5	0.0	too dim for the sensor to register.
6	0.0	too dim for the sensor to register.
7	0.0	too dim for the sensor to register.
8	0.0	too dim for the sensor to register.
9	0.0	too dim for the sensor to register.
10	0.0	too dim for the sensor to register.

**Distance: 2–3 cm**

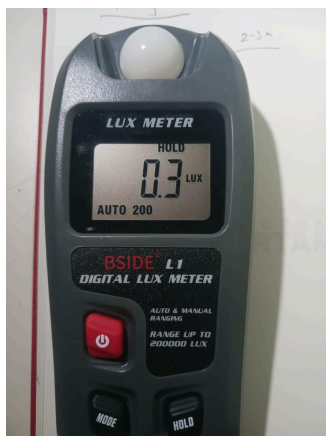
<b>Flash No.</b>	<b>Peak Lux Value</b>	<b>Notes</b>
1	0.1	Very faint glow visible; steady but extremely weak.
2	0.0	Glow briefly flickered, but too dim for the sensor to register.
3	0.3	Short pulse of brighter glow detected — likely the clearest flash so far.
4	0.0	Glow became very weak again, below sensor threshold.
5	0.1	Faint but consistent glow; still on the low end.
6	0.1	Similar to the previous reading — weak but detectable.
7	0.2	A slightly stronger glow compared to earlier faint readings.
8	0.1	Returned to a very soft glow; detectable but minimal.
9	0.0	Momentary dimming; glow too soft to measure.
10	0.0	No measurable glow during the reading window.



TEST 1 (2.16AM)



TEST 2 (2.19AM)



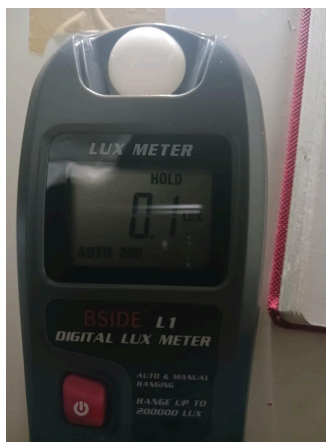
TEST 3 (2.22AM)



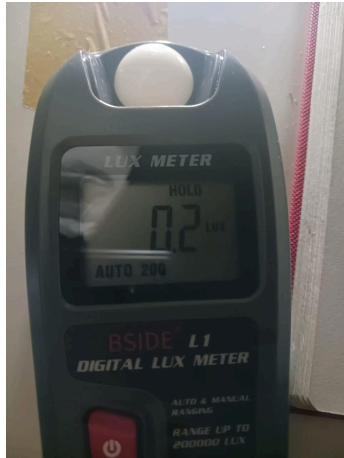
TEST 4 (2.25AM)



TEST 5 (2.30AM)



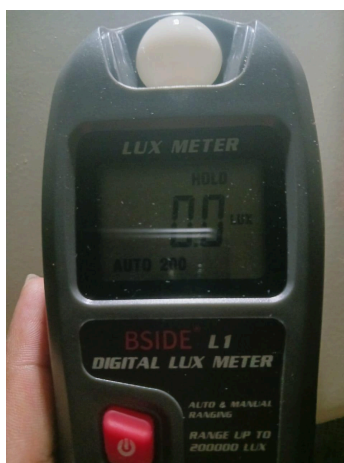
TEST 6 (2.33AM)



TEST 7 (2.35AM)



TEST 8 (2.39AM)



TEST 9 (2.43AM)



TEST 10 (2.45AM)

Firefly 1 <sup>2m Low</sup> 16.7 Lux 1.50 m/s

Start 1:50am		Start 2:16am	
10m		2-3m	
1	0.0	2:16	0.0
2	0.0	2:19	0.0
3	0.0	2:22	0.3
4	0.0	2:25	0.0
5	<del>0.0</del>	2:30	0.1
6	<del>0.0</del>	2:33	0.1
7	<del>0.0</del>	2:35	0.2
8	<del>0.0</del>	2:39	0.1
9	<del>0.0</del>	2:43	0.0
10	<del>0.0</del>	2:45	0.0

Result