

ANALYSIS AND DISCUSSION

1. In the first part of the experiment, you measured the voltage drop across a $68\ \Omega$ resistor versus the current flowing through the resistor. Generate a graphical representation of your data. Describe (in about 100 words) your observation and the data collected.
2. In the second part of the experiment, you measured the voltage drop across a small light bulb. Here also, generate a graphical representation of your data and describe (in about 100 words) your observation and the trend of your data.
3. Do your data for the standard resistor support the predictions of Ohm's Law? Do your data for the light bulb support the predictions of Ohm's Law? Provide a detailed discussion (about 400 words) in this regard. In your discussion, make sure that you indicate the limitations of your experiment and the possible sources of error.