Update #2 - 7/16/14

Buffy and Stephanie

Calculating Luminous Intensity

- Power (Watts) → Luminous Flux (Lumens) → Luminous Intensity (Candela)
 - power = voltage × current

(sr)

- luminous flux = power × luminous efficacy
- luminous intensity = luminous flux / solid angle

$$P_{(W)} = V_{(V)} \times I_{(A)} \qquad \qquad \Phi_{(lm)} = P_{(W)} \times \eta_{(lm/W)} \qquad \qquad I_{(cd)} = \Phi_{(lm)} / \Omega$$

$$I_{v(cd)} = (I_{(A)} V_{(V)} \eta_{(lm/W)}) / \Omega_{(sr)}$$

Spectrometer Dimensions



Troubleshooting the Amplifier

- Does not have the gain it should
- Gain does not remain constant
 - Decreases as input increases



