Physics 262 Homework #11 Show your work.

Read the safety label on the laser that we will be using for the laser light show, and then answer the following questions.

- 1. What class is the laser? What is the output power (W)?
- 2. Assuming a beam diameter of 2 mm, what is the output power density (W/cm^2) ?
- 3. After what time interval is the maximum permissible exposure (MPE) reached?
- 4. The laser is projected onto the wall through a diverging lens. Among other things, this will make your movie bigger. How does this affect laser safety?