# Practice Problems

#### Illumination pages 431-438

page 436

1. A lamp is moved from 30 cm to 90 cm above the pages of a book. Compare the illumination on the book before and after. the lamp is moved.

$$\frac{E_{\text{after}}}{E_{\text{before}}} = \frac{\left(\frac{P}{4 \text{ ord}_{\text{obstore}}^2}\right)}{\left(\frac{P}{4 \text{ ord}_{\text{betore}}^2}\right)} = \frac{d_{\text{before}}^2}{d_{\text{after}}^2}$$

$$= \frac{(30 \text{ cm})^2}{(90 \text{ cm})^2} = \frac{1}{9}; \text{ therefore, after}$$

the lamp is moved the illumination is one-ninth of the original illumination.

2. What is the illumination on a surface that is 3.0 m below a 150-W incandescent lamp that emits a luminous flux of 2275 lm?

$$E = \frac{P}{4\pi d^2} = \frac{2275 \text{ lm}}{4\pi (3.0 \text{ m})^2} = 2.0 \times 10^1 \text{ lx}$$

3. Draw a graph of the illuminance produced by a 150-W incandescent lamp between 0.50 m and 5.0 m.

of Council

4. A 64-ed point source of light is 3.0 m above the surface of a desk. What is the illumination on the desk's surface in lux?

$$P = 4\pi(64 \text{ cd}) = 256\pi \text{ lm}$$
  
so  $E = \frac{P}{4\pi d^2} = \frac{256\pi \text{ lm}}{4\pi(3.0 \text{ m})^2} = 7.1 \text{ lx}$ 

5. A public school law requires a minimum illuminance of 160 bt at the surface of each student's desk. An architect's specifications call for classroom lights to be located 2.0 m. above the desks. What is the minimum luminous flux that the lights must produce?

$$E = \frac{\rho}{4\pi\sigma^2}$$

$$P = 4\pi E\sigma^2$$
=  $4\pi (160 \text{ Im/m}^2)(2.0 \text{ m})^2$ 
=  $8.0 \times 10^3 \text{ Im}$ 

6. A screen is placed between two lamps so that they illuminate the screen equally, as shown in Figure 16-7. The first lamp emits a luminous flux of 1445 lm and is 2.5 m from the screen. What is the distance of the second lamp from the screen if the luminous flux is 2375 lm?



■ Figure 16-7 (Not to scale):

$$E_1 = E_2$$
  
So  $\frac{P_1}{d_1^2} = \frac{P_2}{d_2^2}$   
or  $d_2 = d_1 \sqrt{\frac{P_2}{P_1}}$   
=  $(2.5 \text{ m}) \sqrt{\frac{2375}{1445}}$   
=  $3.2 \text{ m}$ 

# Physics Principles And Problems Chapter 3 Assessment Answers

James A. Tindall, James R. Kunkel, Dean E. Anderson

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