

24. (a) Since $\theta = 1.22\lambda/d$, the larger the wavelength the larger the radius of the first minimum (and second maximum, etc). Therefore, the white pattern is outlined by red lights (with longer wavelength than blue lights).
- (b) The diameter of a water drop is

$$d = \frac{1.22\lambda}{\theta} \approx \frac{1.22(7 \times 10^{-7} \text{ m})}{1.5(0.50^\circ)(\pi/180^\circ)/2} = 1.3 \times 10^{-4} \text{ m} .$$