$$I(r) = I_0 e^{-r/R}$$

$$\mu(r) = \mu_0 + \frac{r}{D}$$

$$I(r) = I_0\, e^{-K\left[\left(\frac{r}{R}\right)^{1/4} - 1\right]}$$

$$\mu(r) = \mu_0 - K\left[\left(\frac{r}{R}\right)^{1/4} - 1\right]$$