

relative luminance sensitivity $L_r / \Delta L_r$ as function of H

$$L_r = 10^{x_r} H = 10^{n x_r} \quad c = \ln 10$$
$$dL_r/dx = c L_r \quad dH/dx = c n H$$

it follows: $L_r / \Delta L_r = [nH / (dH c)]$

$$L_r/dL_r = \text{const} H / [(1 + \sqrt{2}H)(2 + \sqrt{2}H)]$$

$$Q' [n x_r \rightarrow +\infty] = 0$$

$$Q' [n x_r = 0] = \text{maximum}$$

$$Q' [n x_r \rightarrow -\infty] = 0$$