

luminance discrimination possibility $L/\Delta L$ as function of H

with: $L = 10^x$ $H = e^h = 10^{\log e k(x-u)}$
 $dL/dx = \ln 10 L$ $dH/dx = k H$

it follows: $L/\Delta L = [kH/(dH \ln 10)]$
 $\frac{L}{dL} = \text{const } H/[(1+\sqrt{2}H)(2+\sqrt{2}H)]$

$$Q' [k(x-u) \rightarrow +\infty] = 0$$

$$Q' [k(x-u) = 0] = \text{maximum}$$

$$Q' [k(x-u) \rightarrow -\infty] = 0$$