

„achromatic response”-description

sub function $q [k (u - u_0)]$

with $u = \log L$ ($L =$ luminance)

$u_0 = \log L_u$ ($L_u =$ surround luminance)

$$q [k (u - u_0)] = 1 + 1 / [1 + \sqrt{2} e^{k (u - u_0) }]$$

sub function values:

$$q [k (u - u_0) \rightarrow + \infty] = 1$$

$$q [k (u - u_0) = 0] = \sqrt{2}$$

$$q [k (u - u_0) \rightarrow - \infty] = 2$$