

$Q_{ab}(x_r)$  = achromatic receptor response

$$Q_{ab}(x_r) = \frac{b}{\ln \sqrt{2}} \ln \left[ 1 + \frac{1}{1 + \sqrt{2} e^{x_r/a}} \right] - b$$

$a=0,50, b=1,00, e=2,718282$

$$F'_{ab}(x_r) = 4b / [a \{ e^{x_r/b} + e^{-x_r/a} \}^2]$$

$a=1,00; b=1,00$

Asymptote

$F'_{1,1}(x_r)$

W

$Q_{0,5,1}(x_r)$

N

$$m_{1,01} = 0,97$$

$L_u$  range of office  
luminance

$$L_u = 28 \text{ cd/m}^2$$

$$x_r = \log [ L / L_u ]$$