

log ΔL luminance difference threshold $\bullet L_g=63\text{cd/m}^2$

2 *02 0,1&26s R 63cd/m²; pot3*

$$\Delta L = A_4[A_1 + A_3 \cdot L]^t$$

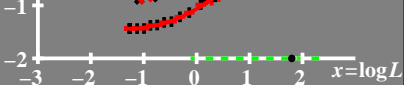
$$A_1=0.01 \quad A_1=0.0$$

$$A_2=1.08=t \quad A_2=0.87=t$$

$$A_3=0.0 \quad A_3=0.0$$

$$A_4=10.0 \quad A_4=10.0$$

$$\Delta=0.002 \quad \Delta=0.002$$



$\log(L/\Delta L)$ luminance contrast sensitivity threshold $\bullet L_g=63\text{cd/m}^2$

2 *02 0,1&26s R 63cd/m²; pot3*

$$\log(L/\Delta L) = L / [A_4 \cdot (A_1 + A_2 + A_3 \cdot L)^t]$$

$$A_1=0.01$$

$$A_1=0.01$$

$$A_2=1.08=t$$

$$A_2=0.87=t$$

$$A_3=0.0$$

$$A_3=0.0$$

$$A_4=10.0$$

$$A_4=10.0$$

$$\Delta=0.002$$

$$\Delta=0.002$$

-1

-2

-3

-2

-1

0

1

2

$x=\log L$

$L/\Delta L$ luminance contrast
sensitivity threshold

• $L_g = 63 \text{ cd/m}^2$

02 0,1&26s R 63cd/m²; pot3

$$L/\Delta L = L / [A_4 \cdot (A_1 + A_3 \cdot L)^t]$$

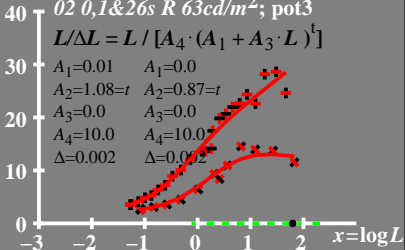
$$A_1 = 0.01 \quad A_1 = 0.0$$

$$A_2 = 1.08 = t \quad A_2 = 0.87 = t$$

$$A_3 = 0.0 \quad A_3 = 0.0$$

$$A_4 = 10.0 \quad A_4 = 10.0$$

$$\Delta = 0.002 \quad \Delta = 0.002$$



T^* luminance difference
threshold sum

• $L_g = 63 \text{cd/m}^2$

80 *02 0,1&26s R 63cd/m²; pot3*

$$T^* = A_4[A_1 + A \cdot L^t - 1]$$

$$A_1 = 0.01 \quad A_1 = 0.0$$

$$A_2 = 1.08 = t \quad A_2 = 0.87 = t$$

$$A_3 = 0.0 \quad A_3 = 0.0$$

$$A_4 = 10.0 \quad A_4 = 10.0$$

$$\Delta = 0.002 \quad \Delta = 0.002$$

60

40

20

0

-3

-2

-1

0

1

2

$x = \log L$