

$L / \Delta L$ central-field threshold contrast

Richter, K. (1993), CIE proceedings, Advanced Colorimetry, p. 79-84

$$L^* = V (L_s / s)^n [1 - s + s L / L_s]^n - 1 \quad [1]$$

$$n = -0,25 \quad [2]$$

$$V = 1 / (0,036 n L_u^{-0,30}) \quad [3]$$

$$L_s = 0,025 L_u^{0,705} \quad [4]$$

$$s = 1 / [1 + (n V L_s^n)^{1/(1-n)}] \quad [5]$$

$$L_u = 0,1; 1; 10; 100; 1000 \text{ cd/m}^2 \quad [6]$$

surround-field luminance

$L_u / [\text{cd/m}^2]$

0,1

1

10

100

1000

central-field luminance $L / [\text{cd/m}^2]$

0,001

0,01

0,1

1

10

100

1000

10000

-5

-3

-2

-1

0

1

2

3

4

$\log L / [\text{cd/m}^2]$