

$\log [L_s / s]$ central-field luminance threshold divided by threshold factor

3

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

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

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

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

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

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

$$dL = [1/n V] [(L_s / s)^{1-n} (1 - s + s L / L_s)^{1-n}] \quad [7]$$

2

1

0

-1

-2

$\log [L_s / s]$

surround-field luminance

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

-0.1

-0.9

0,1

0.69

10

1.49

100

2.29

1000

$$L^* = V (L_s / s)^n [(1 - s(L - L_s) / L_s)^n - 1] \quad [8]$$

$$dL = [1/n V] [(L_s / s)^{1-n} (1 - s(L - L_s) / L_s)^{1-n}] \quad [9]$$

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

0,001

0,01

0,1

1

10

100

1000

10000

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