

L^* / L_u^* normalized central-field lightness

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

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

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

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

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

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

surround-field luminance

→ $L_u / [\text{cd/m}^2]$

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

0,001 0,01 0,1 1 10 100 1000 10000

-3

-2

-1

0

1

2

3

4

→ $\log L / [\text{cd/m}^2]$