

log [ΔL] central-field threshold

2
1
0
-1
-2
-3

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

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

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

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

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

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

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

Richter, K. (1993), CIE proceedings, Advanced Colorimetry, p. 79–84, CIE3 & <http://color.li.tu-berlin.de/BUA4BF.PDF>

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

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

surround-field luminance L_u [cd/m²]

central-field luminance L [cd/m²]

log L [cd/m²]

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

0,1
1
10
100
1000