

log [V] scaling factor

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

$$n = -0.25 \quad [2]$$

$$V = 1/(0.036 n L_u^{-0.30}) \quad [3]$$

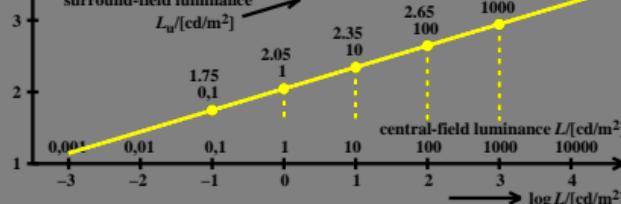
$$L_s = 0.025 L_u^{0.705} \quad [4]$$

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

$$L_u = 0.1; 1; 10; 100; 1000 \text{ cd/m}^2 \quad [6]$$

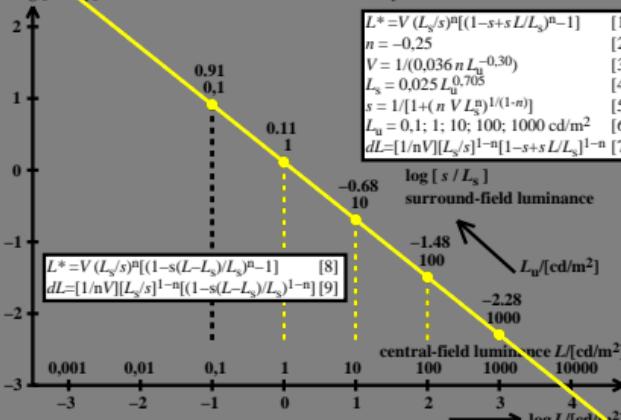
$$dL = [1/nV][L_s/s]^{1-n}[1-s+s L/L_s]^{1-n} \quad [7]$$

log [V] scaling factor surround-field luminance



ees51-5a

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



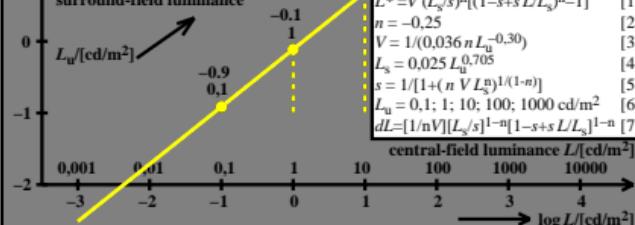
ees51-7a

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

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

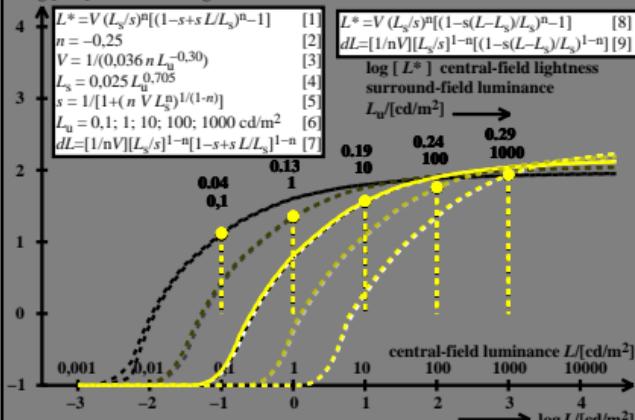
$$dL = [1/nV][L_s/s]^{1-n}[(1-s(L-L_s)/L_s)^{1-n}] \quad [9]$$

log [L_s / s] surround-field luminance



ees51-6a

log [L^*] central-field lightness



ees51-8a

ees51-7n