ees91-5a — log [V] scaling factor

log [V] scaling factor

$L^* = V (L_s/s)^n [(1 - s + s L/L_s)^{n} - 1]$ [1]
$n = -0.25$ [2]
$V = 1/(0.036 \, n \, L_u^{-0.30})$ [3]
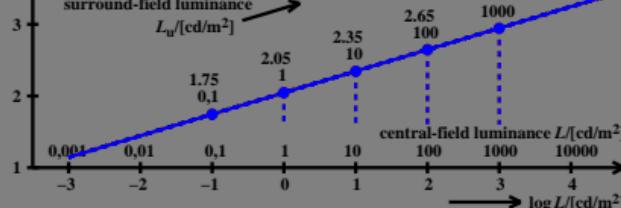$L_s = 0.025 \, L_u^{0.705}$ [4]
$s = 1/[1 + (n \, V \, L_s^n)^{1/(1-n)}]$ [5]
$L_u = 0.1; 1; 10; 100; 1000 \text{ cd/m}^2$ [6]
$dL = [1/nV][L_s/s]^{1-n}[1 - s + s L/L_s]^{1-n}$ [7]

$L^* = V (L_s/s)^n [(1 - s(L - L_s)/L_s)^{n} - 1]$ [8]
$dL = [1/nV][L_s]^{1-n}[(1 - s(L - L_s)/L_s)^{1-n} - 1]$ [9]

log [V] scaling factor
surround-field luminance
$L_u/[\text{cd/m}^2]$

1.75   0.1
2.05   1   10
2.35   10
2.65   100
2.95   1000

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

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

ees91-6a — log [L_s/s] central-field luminance threshold divided by threshold faktor

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

$L^* = V (L_s/s)^n [(1 - s(L - L_s)/L_s)^{n} - 1]$ [8]
$dL = [1/nV][L_s/s]^{1-n}[(1 - s(L - L_s)/L_s)^{1-n} - 1]$ [9]

log [L_s/s]
surround-field luminance
$L_u/[\text{cd/m}^2]$

$L^* = V (L_s/s)^n [(1 - s + s L/L_s)^{n} - 1]$ [1]
$n = -0.25$ [2]
$V = 1/(0.036 \, n \, L_u^{-0.30})$ [3]
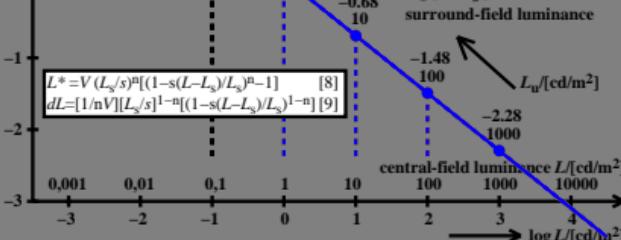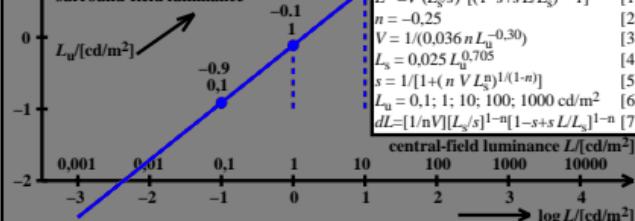$L_s = 0.025 \, L_u^{0.705}$ [4]
$s = 1/[1 + (n \, V \, L_s^n)^{1/(1-n)}]$ [5]
$L_u = 0.1; 1; 10; 100; 1000 \text{ cd/m}^2$ [6]
$dL = [1/nV][L_s/s]^{1-n}[1 - s + s L/L_s]^{1-n}$ [7]

2.29   1000
1.49   100
0.69   10
-0.1   1
-0.9   0.1

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

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

ees91-7a — log [s/L_s] central-field threshold factor divided by luminance threshold

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

$L^* = V (L_s/s)^n [(1 - s + s L/L_s)^{n} - 1]$ [1]
$n = -0.25$ [2]
$V = 1/(0.036 \, n \, L_u^{-0.30})$ [3]
$L_s = 0.025 \, L_u^{0.705}$ [4]
$s = 1/[1 + (n \, V \, L_s^n)^{1/(1-n)}]$ [5]
$L_u = 0.1; 1; 10; 100; 1000 \text{ cd/m}^2$ [6]
$dL = [1/nV][L_s/s]^{1-n}[1 - s + s L/L_s]^{1-n}$ [7]

0.91   0.1
0.11   1
-0.68   10
-1.48   100
-2.28   1000

log [s/L_s]
surround-field luminance
$L_u/[\text{cd/m}^2]$

$L^* = V (L_s/s)^n [(1 - s(L - L_s)/L_s)^{n} - 1]$ [8]
$dL = [1/nV][L_s/s]^{1-n}[(1 - s(L - L_s)/L_s)^{1-n} - 1]$ [9]

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

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

ees91-8a — log [L^*] central-field lightness

log [L^*] central-field lightness

$L^* = V (L_s/s)^n [(1 - s + s L/L_s)^{n} - 1]$ [1]
$n = -0.25$ [2]
$V = 1/(0.036 \, n \, L_u^{-0.30})$ [3]
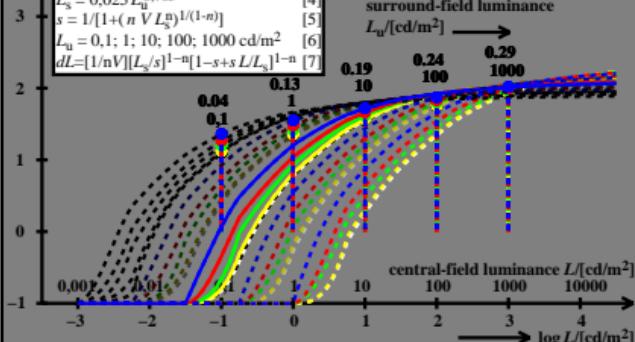$L_s = 0.025 \, L_u^{0.705}$ [4]
$s = 1/[1 + (n \, V \, L_s^n)^{1/(1-n)}]$ [5]
$L_u = 0.1; 1; 10; 100; 1000 \text{ cd/m}^2$ [6]
$dL = [1/nV][L_s/s]^{1-n}[1 - s + s L/L_s]^{1-n}$ [7]

$L^* = V (L_s/s)^n [(1 - s(L - L_s)/L_s)^{n} - 1]$ [8]
$dL = [1/nV][L_s]^{1-n}[(1 - s(L - L_s)/L_s)^{1-n} - 1]$ [9]

log [L^*] central-field lightness
surround-field luminance
$L_u/[\text{cd/m}^2]$

0.04   0.1
0.13   1
0.19   10
0.24   100
0.29   1000

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

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

ees91-7n