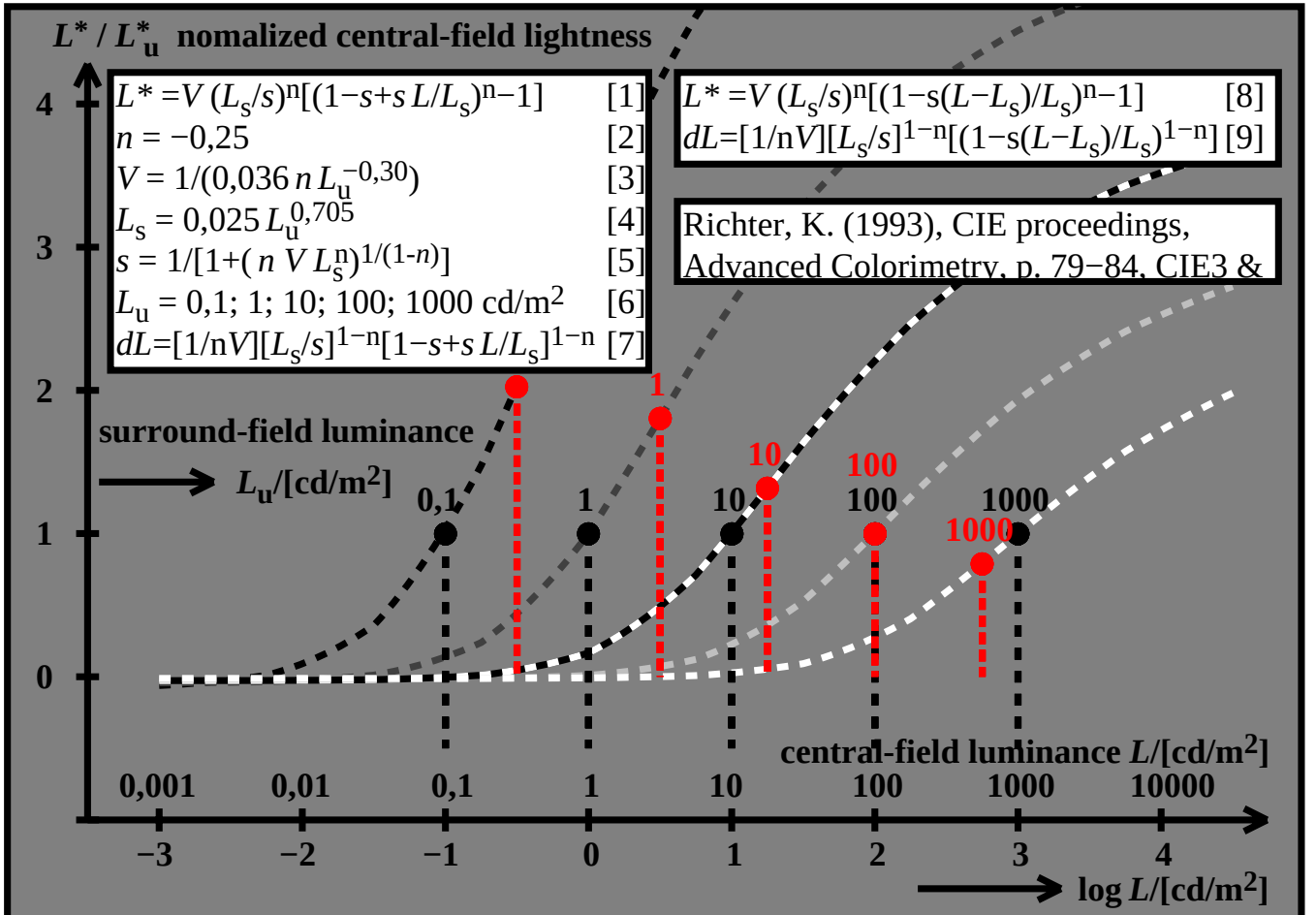
L^* / L^*_u nomalized central-field lightness
$L^* = V\,(L_s/s)^n[(1-s+s\,L/L_s)^n-1]$ [1]
$n = -0{,}25$ [2]
$V = 1/(0{,}036\,n\,L_u^{-0{,}30})$ [3]
$L_s = 0{,}025\,L_u^{0{,}705}$ [4]
$s = 1/[1+(n\,V\,L_s^n)^{1/(1-n)}]$ [5]
$L_u = 0{,}1;\ 1;\ 10;\ 100;\ 1000\ \mathrm{cd/m^2}$ [6]
$dL=[1/nV][L_s/s]^{1-n}[1-s+s\,L/L_s]^{1-n}$ [7]
$L^* = V\,(L_s/s)^n[(1-s(L-L_s)/L_s)^n-1]$ [8]
$dL=[1/nV][L_s/s]^{1-n}[(1-s(L-L_s)/L_s)^{1-n}]$ [9]
Richter, K. (1993), CIE proceedings, Advanced Colorimetry, p. 79−84, CIE3 &
surround-field luminance
$L_u/[\mathrm{cd/m^2}]$
0,1
1
10
100
1000
central-field luminance $L/[\mathrm{cd/m^2}]$
0,001
0,01
0,1
1
10
100
1000
10000
−3
−2
−1
0
1
2
3
4
log $L/[\mathrm{cd/m^2}]$
0
1
2
3
4

ees40−8a