

$\log [(\Delta Y/Y) / (\Delta Y/Y)_u]$

LABJNDu4 relative
tistimulus value sensitivity

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u$

2 100

$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$

$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$

$(dY/Y) / (dY/Y)_u = [(A_{1n} + A_{2u}x) / x_u] / (A_{1n} + A_{2u})$

1 10 $(dY/Y)_{90} / (dY/Y)_u = 0,88, A_{0n} = 0,6666, A_{2u} = 0,0438, c_x = 0,42$

$(dY/Y)_{18} / (dY/Y)_u = 1,00, A_{1n} = 0,007, A_{2n} = 0,0024$

$(dY/Y)_{3,6} / (dY/Y)_u = 1,55, Y_u = 18, dY_u = 0,03$

0 1 $\log[(dY/Y) / (dY/Y)_u] = 0, m_u = -0,13$

$L^*_u = 1780, dY_u = 0,03, dY_u/Y_u = 0,0018$

application
range

-1 0,1 1 10 100 $x_u = 1$ Y
-2 -1 0 $x_N = 0,2$ 1 $x_W = 5$ 2 $\log(Y)$