

$\log(\Delta Y/Y)$

LABJNDu4

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

0-1

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

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

$$dY/Y = A_{0n}(A_{1n} + A_{2n}Y)/Y = A_{0n}(A_{1n} + A_{2u}x)/Y$$

-1 0,1

$$(dY/Y)_{90} = 0,0037, A_{0n} = 1,5, A_{2u} = 0,0438, c_x = 0,42$$

$$(dY/Y)_{18} = 0,0042, A_{1n} = 0,007, A_{2n} = 0,0024$$

$$(dY/Y)_{3,6} = 0,0066, Y_u = 18, dY_u = 0,07$$

-2 0,01

$$\log(dY/Y) = -2,37, m_u = -0,15$$

application
range

$$L^*_u = 791, dY_u = 0,07, dY_u/Y_u = 0,0042$$

-3 -2 -1 0 1 10 100 Y
0,1 1 10 100 Y
 $x_N = 0,2$ $x_W = 5$ $x_u = 1$