

log ($\Delta Y/Y$)

LABJNDu1

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

0 -1

$$L^*_{LABJNDu1} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu1} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

-1 0,1

$$(dY/Y)_{90} = 0,0059, A_{0n} = 1,0, A_{2u} = 0,1044, c_x = 1,00$$

$$(dY/Y)_{18} = 0,0067, A_{1n} = 0,017, A_{2n} = 0,0058$$

$$(dY/Y)_{3,6} = 0,0105, Y_u = 18, dY_u = 0,12$$

-2 0,0

$$\log(dY/Y) = -2,17, m_u = -0,15$$

application
range

$$L^*_u = 498, dY_u = 0,12, dY_u/Y_u = 0,0067$$

-3

0,1

1

10

100

$x_u = 1$

y

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

log(Y)