

$\log(\Delta Y/Y)$

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 $(dY/Y)_{90} = 0,0089, A_{0n} = 1,5, A_{2u} = 0,1044, c_x = 1,00$

$(dY/Y)_{18} = 0,0101, A_{1n} = 0,017, A_{2n} = 0,0058$

$(dY/Y)_{3,6} = 0,0157, Y = 18, dY_u = 0,18$

$\log(dY/Y) = -1,99, m_u = -0,15$

application

range

$L^*_u = 332, dY_u = 0,18, dY_u/Y_u = 0,0101$

-3

0,1

1

10

$x_u = 1$

100 Y

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

$\log(Y)$