

$\log(\Delta Y/Y)$

CIELABn0

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2-100

$$L^*_{CIELABn0} = 116(Y/Y_u)^{1/3,0} - 16 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\begin{aligned} \log(dY/Y) &= \log[3,0(Y_u/115)] - (1/3,0) \log(Y/Y_u) \\ &= (1/3,0) \log[3,0(Y_u/115)] - (1/3,0) \log(Y) \end{aligned}$$

1-10

$$\log(dY/Y) = -0,59, m_u = -0,33$$

$$L^*_u = 50, dY_u = 4,60, dY_u/Y_u = 0,2555$$

application range

$$(dY/Y)_{90} = 0,1494, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$$

$$(dY/Y)_{18} = 0,2555, S_n = 115,49, D_n = 15,49$$

$$(dY/Y)_{3,6} = 0,4361, Y_n = 100, dY_n = 4,60$$

0,1

1

10

100

$Y_u = 18$

100

Y

-1

-2

-1

0

$Y_N = 3,6$

1

10

100

$Y_w = 90$

2

$\log(Y)$