

$\log(\Delta Y/Y)$

CIELABn4

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2-100

$L^*_{CIELABn4} = 87(Y/Y_n)^{1/1,5} + 13 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/Y) = \log[1,5(Y_u/86)] - (1/1,5) \log(Y/Y_u)$

$= (1/1,5) \log[1,5(Y_u/86)] - (1/1,5) \log(Y)$

1-10

$\log(dY/Y) = -0,52, m_u = -0,66$

$L^*_u = 41, dY_u = 5,40, dY_u/Y_u = 0,3005$

application range

0-1

$(dY/Y)_{90} = 0,1027, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$

$(dY/Y)_{18} = 0,3005, S_n = 86,98, D_n = 15,01$

$(dY/Y)_{3,6} = 0,8768, Y_n = 100, dY_n = 5,40$

0,1

1

10

100

$Y_u = 18$

100

Y

-1

0

$Y_N = 3,6$

1

10

100

2

$\log(Y)$