

$\log(\Delta Y/Y)$

CIELABu7

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2-100

$T^*_{CIELABu7} = 59(Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/Y) = \log[2,5(Y_u/58)] - (1/2,5) \log(Y/Y_u)$

$= (1/2,5) \log[2,5(Y_u/58)] - (1/2,5) \log(Y)$

1-10

$\log(dY/Y) = -0,62, m_u = -0,25$

$T^*_u = 50, dY_u = 4,27, dY_u/Y_u = 0,2377$

application
range

0-1

$(dY/Y)_{90} = 0,1248, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$

$(dY/Y)_{18} = 0,2377, S_n = 58,42, D_n = -8,42$

$(dY/Y)_{3,6} = 0,4515, Y_u = 18, dY_u = 4,27$

0,1

1

10

100

$Y_u = 18$

Y

$Y_N = 3,6$

1

10

100

$Y_W = 90$

log(Y)