

$\log(\Delta Y/Y)$

CIELABu0

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2-100

$L^*_{CIELABu0} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/Y) = \log[3,0(Y_u/65)] - (1/3,0) \log(Y/Y_u)$

$= (1/3,0) \log[3,0(Y_u/65)] - (1/3,0) \log(Y)$

1-10

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

$L^*_u = 50, dY_u = 4,58, dY_u/Y_u = 0,2544$

application
range

0-1

$(dY/Y)_{90} = 0,1488, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$

$(dY/Y)_{18} = 0,2544, S_n = 65,49, D_n = -15,49$

$(dY/Y)_{3,6} = 0,4342, Y_u = 18, dY_u = 4,58$

0,1

1

10

100

$Y_u = 18$

100

Y

-1

-1

0

$Y_N = 3,6$

1

10

100

$Y_w = 90$

100

2

$\log(Y)$