

$\log (\Delta Y/Y)$

CIELABu7

tristimulus value sensitivity

$Y_{nc}=Y_{WRGBnc}=100, 21, 72, 7$

$S_r=(\Delta Y/Y)$

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

$\log(dY/Y)=-0,62, m_s=-0,39$

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

application
range

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

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

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

0,1

1

10

100

$Y_u=18$

Y

-1

0

1

2

$Y_N=3,6$

$Y_W=90$

$\log(Y)$