

$\log(\Delta Y/Y)$

CIELABn9

tristimulus value sensitivity

$Y_{nc}=Y_{WRGBnc}=100, \text{red}, \text{green}, \text{blue}$

$S_r=(\Delta Y/Y)$

2-100

$t^*_{CIELABn9}=87(Y/Y_n)^{1/1,5}+13 \quad (Y_n=100, Y_{nc}/100<Y\leq Y_{nc})$

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

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

1-10

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

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

application range

0-1

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

$(dY/Y)_{18}=0,3005, S_n=86,98, D_n=13,01$

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

0,1

1

10

$Y_u=18$

100

Y

-1

0

1

$Y_N=3,6$

$Y_W=90$

2

$\log(Y)$