

$\log (\Delta Y/Y)$

CIELABu8

tristimulus value sensitivity

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

$S_r=(\Delta Y/Y)$

2-100

$t^*_{CIELABu8}=50(Y/Y_u)^{1/2,0}+1 \quad (Y_u=18, Y_{nc}/100<Y\leq Y_{nc})$

$\log(dY/Y) = \log[2,0(Y_u/49)] - (1/2,0) \log(Y/Y_u)$

$= (1/2,0) \log[2,0(Y_u/49)] - (1/2,0) \log(Y)$

1-10

$\log(dY/Y)=-0,64, m_s=-0,49$

$t^*_u=50, dY_u=4,06, dY_u/Y_u=0,2237$

application range

-1-2
-2 -1 0 1 10 100 Y
 $Y_N=3,6$ $Y_u=18$ $Y_W=90$ 2 $\log(Y)$