

$\log(\Delta Y/\Delta Y_u)$

CIELABu7 relative
tristimulus value difference

$Y_{nc}=Y_{W\text{RGB}nc}=100, 21, 72, 7$

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

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

$\Delta Y/\Delta Y_u$

2 100

1 10

0 1

-1

$dY_{90}/dY_u=2,62$, $\gamma=2,5$, $1/\gamma=1/2,5=0,40$

$dY_{18}/dY_u=1,00$, $S_n=58,42$, $D_n=-8,42$

$dY_{3,6}/dY_u=0,37$, $Y_u=18$, $dY_u=4,27$

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

$\log[(dY)/(dY)_u]=0$, $m_u=0,60$

application
range

0,1

-1

$Y_N=3,6$

10

1

100

2

$Y_u=18$

$Y_W=90$

Y

$\log(Y)$