

$\log (\Delta Y/Y)$

CIELABu1

tristimulus value sensitivity

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

$S_r=(\Delta Y/Y)$

2-100

$L^*_{CIELABu1}=66(Y/Y_u)^{1/3,0}-16 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$

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

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

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

0

1

2

$Y_N=3,6$

$Y_W=90$

$\log(Y)$