

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

CIELABu0 relative

tristimulus value difference

$Y_{nc} = L^* W_{RGBnc} = 100, 52, 87, 31$

$\Delta Y/\Delta Y_u$

2 100

$L^*_{CIELABu0} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

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

1 10

0 1

$L^*_u = 50, dY_u = 4,58, dY_u/Y_u = 0,2544$

$\log[(dY)/(dY)_u] = 0, m_u = 0,66$

application range

0,1
-1
-2

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