

$\log(\Delta Y)$

CIELABu3

tristimulus value difference

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

$l^*_{\text{CIELABu3}} = 50 (Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

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

