

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

CIELABu3 relative
tristimulus value difference

$Y_{nc}=L^*_{WRGBnc}=100, \textcolor{red}{52}, \textcolor{blue}{87}, \textcolor{green}{31}$

$\Delta Y/\Delta Y_u$

2
100

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

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

1
10

0
-1

$L^*_{u}=50, dY_u=4,06, dY_u/Y_u=0,2257$

$\log[(dY)/(dY)_u]=0, m_u=0,50$

application
range

