

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

CIELABu4 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

$$L^*_{CIELABu4} = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

1
10

0
-1

$$L^*_{u}=50, dY_u=4,05, dY_u/Y_u=0,2253$$

$$\log[(dY)/(dY)_u]=0, m_u=0,33$$

application
range

