

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

CIELABu3 relative  
tristimulus value difference  
 $Y_{nc}=Y_W \text{RGB}_{nc}=100, 21, 72, 7$

$\Delta Y/\Delta Y_u$

2 100

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

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

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

