

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

CIELABu4 relative
tristimulus value difference
 $Y_{nc}=Y_W \text{RGB}_{nc}=100, 21, 72, 7$

$\Delta Y/\Delta Y_u$

2·100

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

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

1·10

0·1

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

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

-1·-1

0,1

1

10

$Y_N=3,6$

$Y_u=18$

$Y_W=90$

$Y=100$

0

$\log(Y)$

application range