

$\log(\Delta Y/Y)$

CIE LABu4

tristimulus value sensitivity

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$S_r = (\Delta Y/Y)$

2-100

$L^*_{CIE LABu4} = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/Y) = \log[1,5(Y_u/36)] - (1/1,5) \log(Y/Y_u)$

$= (1/1,5) \log[1,5(Y_u/36)] - (1/1,5) \log(Y)$

1-10

$\log(dY/Y) = -0,64, m_u = -0,66$

$L^*_u = 50, dY_u = 4,05, dY_u/Y_u = 0,2253$

application range

0-1

