

$\log(\Delta Y/Y)$

CIELABu4

tristimulus value sensitivity

$Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$

$S_r = (\Delta Y/Y)$

2-100

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

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

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

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

-1

0,1

1

10

$Y_u = 18$

100

$Y$

-2

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$