

$\log(\Delta Y/Y)$

CIELABu1

tristimulus value sensitivity

$Y_{nc}=Y_W \text{RGB}_{nc}=100, 21, 72, 7$

$$S_r = (\Delta Y/Y)$$

2
100

$$l^*_{\text{CIELABu1}} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY/Y) = \log[3,0(Y_u/65)] - (1/3,0) \log(Y/Y_u)$$

$$= (1/3,0) \log[3,0(Y_u/65)] - (1/3,0) \log(Y)$$

1
10

$$\log(dY/Y) = -0,59, m_u = -0,35$$

$$l^*_{u1} = 50, dY_u = 4,58, dY_u/Y_u = 0,2544$$

0
1

application
range

0,1

1

10

1

100

1

1000

1

10000

1

100000

1

Y

$Y_N=3,6$

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1