

$$\log [(Y/\Delta Y) / (Y/\Delta Y)_u]$$

CIELABn3 relative
tistimulus value contrast

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

$$C_r/C_{ru}=(Y/\Delta Y)/(Y/\Delta Y)_u$$

$$l^*_{CIELABn3}=100(Y/Y_n)^{1/2,0}+1 \quad (Y_n=100, Y_{nc}/100<Y\leq Y_{nc})$$

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

2 100

1 10

0 1

-1

-2

$$(Y/dY)_{90}/(Y/dY)_u=2,23, \gamma=2,0, 1/\gamma=1/2,0=0,50$$

$$(Y/dY)_{18}/(Y/dY)_u=1,00, S_n=99,21, D_n=0,78$$

$$(Y/dY)_{3,6}/(Y/dY)_u=0,44, Y_n=100, dY_n=4,75$$

$$\log[(Y/dY)/(Y/dY)_u]=0, m_u=0,50$$

$$l^*_u=43, dY_u=4,75, Y_u/dY_u=3$$

application
range

0,1

1

10

100

$Y_u=18$

Y

$Y_N=3,6$

1

$Y_W=90$

2

$\log(Y)$