

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

CIE LABn7 relative
tistimulus value contrast

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

2 100

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

$$t^*_{CIE LABn7}=109(Y/Y_u)^{1/2,5}-9 \quad (Y_u=100, Y_{nc}/100<Y\leq Y_{nc})$$

$$\log[(Y/dY)/(Y/dY)_u] = (1/2,5) \log(Y/Y_u)$$

1 10

$$(Y/dY)_{90}/(Y/dY)_u=1,90, \gamma=2,5, 1/\gamma=1/2,5=0,40$$

$$(Y/dY)_{18}/(Y/dY)_u=1,00, S_n=108,42, D_n=-8,42$$

$$(Y/dY)_{3,6}/(Y/dY)_u=0,52, Y_n=100, dY_n=4,57$$

0 1

$$\log[(Y/dY)/(Y/dY)_u]=0, m_u=0,40$$

$$t^*_u=46, dY_u=4,57, Y_u/Y_n=2$$

application
range

0,1

1

10

100

$Y_u=18$

Y

-1

-1

0

$Y_N=3,6$

1

$Y_W=90$

2

$\log(Y)$