

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

CIE LABu1 relative
tistimulus value contrast

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

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

$$l^*_{CIE LABu1}=66(Y/Y_u)^{1/3,0}-16 \quad (Y_u=18, Y_{nc}/100<Y\leq Y_{nc})$$

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

2
100

1
10

0
1

$$\log[(Y/dY)/(Y/dY)_u]=0, m_u=0,33$$

$$l^*_u=50, dY_u=4,58, Y_u/dY_u=2$$

application
range

-1
-2

0,1

1

10

1

100

2

$Y_u=18$

$Y_W=90$

$\log(Y)$