

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

CIE LABu8 relative  
tistimulus value contrast

$$C_r/C_{ru} = (Y/\Delta Y) / (Y/\Delta Y)_u \quad Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$$

2 100

$$t^*_{CIE LABu8} = 50 (Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

1 10

0 1

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

$$t^*_u = 50, \quad dY_u = 4,06, \quad Y_u/dY_u = 4$$

application  
range

0,1

1

10

100

$Y_u = 18$

Y

-2

-1

0

$Y_N = 3,6$

1

10

$Y_W = 90$

2

$\log(Y)$