

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

CIE LABu7 relative
tistimulus value sensitivity

$$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$$

$$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u$$

2 100

$$T^*_{CIE LABu7} = 59 (Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

1 10

$$(dY/Y)_{90}/(dY/Y)_u = 0,52, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$$

$$(dY/Y)_{18}/(dY/Y)_u = 1,00, S_n = 58,42, D_n = -8,42$$

$$(dY/Y)_{3,6}/(dY/Y)_u = 1,89, Y_u = 18, dY_u = 4,27$$

application
range

0 1

$$\log[(dY/Y)/(dY/Y)_u] = 0, m_u = -0,39$$

$$T^*_u = 50, dY_u = 4,27, dY_u/Y_u = 0,2377$$

0,1

1

10

100

$Y_u = 18$

Y

-1

0

1

2

$Y_N = 3,6$ $Y_W = 90$ $\log(Y)$