

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

CIE LABn3 relative
tistimulus value sensitivity

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

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

$$L^*_{CIE LABn3} = 100 (Y/Y_n)^{1/2,0} + 1 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

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

2
100

$$(dY/Y)_{90}/(dY/Y)_u = 0,44, \gamma = 2,0, 1/\gamma = 1/2,0 = 0,50$$

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

$$(dY/Y)_{3,6}/(dY/Y)_u = 2,723, Y_n = 100, dY_n = 4,75$$

application
range

1
10

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

$$L^*_u = 43, dY_u = 4,75, dY_u/Y_u = 0,2639$$

0,1

1

10

100

$Y_u = 18$

Y

-1

-1

0

1

2

$Y_N = 3,6$

$Y_W = 90$

log(Y)