

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

CIE LABn4 relative  
tistimulus value sensitivity

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

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

$$L^*_{CIE LABn4} = 87 (Y/Y_n)^{1/1,5} + 13 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

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

2  
100  
1  
10  
0  
1  
-1  
-2

$$(dY/Y)_{90}/(dY/Y)_u = 0,34, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$$

$$(dY/Y)_{18}/(dY/Y)_u = 1,20, S_n = 86,98, D_n = 13,01$$

$$(dY/Y)_{3,6}/(dY/Y)_u = 2,91, Y_n = 100, dY_n = 5,40$$

application  
range

$$\log[(dY/Y)/(dY/Y)_u] = 0, m_u = -0,66$$

$$L^*_u = 41, dY_u = 5,40, dY_u/Y_u = 0,3005$$

0,1

1

10

100

$$Y_u = 18$$

Y

$$Y_N = 3,6$$

$$Y_W = 90$$

$$2$$

$$\log(Y)$$