

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

CIELABn5 relative
tistimulus value sensitivity

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

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

2
100

$$t^*_{CIELABn5} = 116(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

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

1
10

$$(dY/Y)_{90}/(dY/Y)_u = 0,58, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$$

$$(dY/Y)_{18}/(dY/Y)_u = 1,00, S_n = 115,49, D_n = -15,49$$

$$(dY/Y)_{3,6}/(dY/Y)_u = 1,70, Y_n = 100, dY_n = 4,60$$

application
range

0
1

$$\log[(dY/Y)/(dY/Y)_u] = 0, m_u = -0,35$$

$$t^*_u = 50, dY_u = 4,60, dY_u/Y_u = 0,2555$$

0,1

1

10

100

$Y_u = 18$

100

Y

-2

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

log(Y)