

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

CIE LABu2 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

$L^*_{CIE LABu2} = 59 (Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

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

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

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

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

0,1

1

10

100

$Y_u = 18$

100

Y

-1

0

1

2

$Y_N = 3,6$

$Y_W = 90$

$\log(Y)$