

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

IECsRGBu3 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

$$L^*_{IECsRGBu3} = 50 (Y/Y_u)^{1/1,6} \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log[(dY/Y)/(dY/Y)_u] = - (1/1,6) \log(Y/Y_u)$$

1  
10

$$(dY/Y)_{90} / (dY/Y)_u = 0,36, \gamma = 1,6, 1/\gamma = 1/1,6 = 0,62$$

$$(dY/Y)_{18} / (dY/Y)_u = 1,90, S_n = 50,00, D_n = -0,00$$

$$(dY/Y)_{3,6} / (dY/Y)_u = 2,72, Y_u = 18, dY_u = 3,20$$

application  
range

0  
1

$$\log[(dY/Y)/(dY/Y)_u] = 0, m_u = -0,62$$

$$L^*_u = 50, dY_u = 3,20, dY_u/Y_u = 0,1777$$

0,1

1

10

100

$Y_u = 18$

100

Y

-1

0

1

2

$Y_N = 3,6$

$Y_W = 90$

log(Y)