

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

CIELABu4 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

$l^*_{CIELABu4}=37(Y/Y_u)^{1/1,5}+13$ ($Y_u=18, Y_{nc}/100<Y\leq Y_{nc}$)

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

1 10

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

$(dY/Y)_{18}/(dY/Y)_u=1,20, S_n=36,98, D_n=13,01$

$(dY/Y)_{3,6}/(dY/Y)_u=2,91, Y_u=18, dY_u=4,05$

application
range

0 1

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

$l^*_u=50, dY_u=4,05, dY_u/Y_u=0,2253$

0,1

1

10

100

$Y_u=18$

Y

-1

-1

0

$Y_N=3,6$

1

$Y_W=90$

2

$\log(Y)$