

$\log(\Delta Y/Y)$

CIELABu3

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2 100

$l^*_{CIELABu3} = 50 (Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/Y) = \log[2,0(Y_u/49)] - (1/2,0) \log(Y/Y_u)$

$= (1/2,0) \log[2,0(Y_u/49)] - (1/2,0) \log(Y)$

1 10

$\log(dY/Y) = -0,64, m_u = -0,49$

$l^*_u = 50, dY_u = 4,06, dY_u/Y_u = 0,2257$

application
range

0 1

$(dY/Y)_{90} = 0,1009, \gamma = 2,0, 1/\gamma = 1/2,0 = 0,50$

$(dY/Y)_{18} = 0,2257, S_n = 49,21, D_n = 0,78$

$(dY/Y)_{3,6} = 0,5036, Y_u = 18, dY_u = 4,06$

0,1

1

10

100

$Y_u = 18$

100

Y

-1

0

1

2

$Y_N = 3,6$

$Y_W = 90$

$\log(Y)$