

$\log(\Delta Y/Y)$

CIE LABu3

tristimulus value sensitivity

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

$S_r = (\Delta Y/Y)$

2 100

$l^*_{CIE LABu3} = 50(Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

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

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

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

0,1

1

10

$Y_u = 18$

100

Y

-2

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$