

$\log(\Delta Y/\Delta Y_u)$

IECsRGBu3 relative

tristimulus value difference

$Y_{nc} = L^* W_{RGBnc} = 100, 52, 87, 31$

$\Delta Y/\Delta Y_u$

2 100

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

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

1 10

$dY_{90}/dY_u = 1,82, \gamma = 1,6, 1/\gamma = 1/1,6 = 0,62$

$dY_{18}/dY_u = 1,00, S_n = 50,00, D_n = -0,00$

$dY_{3,6}/dY_u = 0,54, Y_u = 18, dY_u = 3,20$

0 1

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

$\log[(dY)/(dY)_u] = 0, m_u = 0,37$

application range

-1

0,1

1

10

100

$Y_u = 18$

Y

-2

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$