

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

IECsRGBu3 relative

tristimulus value difference

$Y_{nc} = L^* \mathbf{w} \mathbf{RGB}_{nc} = 100, \mathbf{52}, \mathbf{87}, \mathbf{31}$

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

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

2 100

$\Delta Y/\Delta Y_u$

1 10

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

$Y_N = 3,6$

$Y_W = 90$

$Y_u = 18$

$\log(Y)$