

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

CIELABu7 relative
tristimulus value difference

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

$T^*_{\text{CIELABu7}} = 59(Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/dY_u) = [1 - (1/2,5)] \log(Y/Y_u)$

$\Delta Y/\Delta Y_u$

2 100

1 10

0 1

-1

$dY_{90}/dY_u = 2,62, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$

$dY_{18}/dY_u = 1,00, S_n = 58,42, D_n = -8,42$

$dY_{3,6}/dY_u = 0,37, Y_u = 18, dY_u = 4,27$

$T^*_u = 50, dY_u = 4,27, dY_u/Y_u = 0,2377$

$\log[(dY)/(dY)_u] = 0, m_u = 0,60$

application
range

0,1

-1

0

10

1

100

2

$Y_u = 18$

$Y_W = 90$

Y

$\log(Y)$