

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

CIELABu0 relative
tristimulus value difference

$$Y_{nc} = L^* \mathbf{w} \mathbf{R} \mathbf{G} \mathbf{B}_{nc} = 100, \text{red}, \text{green}, \text{blue}$$

$$L^*_{\text{CIELABu0}} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY/dY_u) = [1 - (1/3,0)] \log(Y/Y_u)$$

2
1
0
-1

$$dY_{90}/dY_u = 2,92, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$$

$$dY_{18}/dY_u = 1,00, S_0 = 65,49, D_0 = -15,49$$

$$dY_{3,6}/dY_u = 0,34, Y_u = 18, dY_u = 4,58$$

$$L^*_u = 50, dY_u = 4,58, dY_u/Y_u = 0,2544$$

$$\log[(dY)/(dY)_u] = 0, m_u = 0,66$$

application
range

0,1

10

1

$Y_u = 18$

100

Y

$Y_N = 3,6$

1

Y_W = 90

2

$\log(Y)$