

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

LABJNDu4 relative
tristimulus value difference

$Y_{nc} = L^* w_{RGB} Y_{nc} = 100, 52, 87, 31$

$\Delta Y/\Delta Y_u$

2 100

$$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2n}Y)/(A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2u}x)/(A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$dY/dY_u = (A_{1n} + A_{2u}x)/(A_{1n} + A_{2u})$$

1 10

0 1

$$L^*_u = 791, dY_u = 0,07, dY_u/Y_u = 0,0042$$

$$\log[(dY)/(dY)_u] = 0, m_u = 0,86$$

application
range

0,1

1

10

100

Y

$x_u = 1$

$x_N = 0,2$

1

$x_W = 5$

2

$\log(Y)$