

$\log(\Delta Y)$

LABJNDu9

tristimulus value difference

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

$\Delta Y$

10

$$T^*_{LABJNDu9} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$T^*_{LABJNDu9} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$dY = A_{0n}(A_{1n} + A_{2n}Y) = A_{0n}(A_{1n} + A_{2u}x) \quad x = Y/Y_u$$

$A_{0n,D65} = 1,5, A_{0n,A} = 1,0$ , see CIE 230:2019

$$T^*_u = 332, dY_u = 0,16, dY_u/Y_u = 0,0092$$

$$-1 \quad 0,1 \log(dY) = 0,16, m_u = 0,93$$

application range

0,1

-2

-1

0

$x_N = 0,2$

1

10

$x_u = 1$

100

2

$x_W = 5$

$Y$

$\log(Y)$