

$\log(\Delta Y)$

LABJNDu5

tristimulus value difference

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

ΔY

1-10

$$T^*_{LABJNDu5} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$T^*_{LABJNDu5} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

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

$$T^*_u = 332, dY_u = 0,18, dY_u/Y_u = 0,0102$$

$$\log(dY) = 0,18, m_u = 0,85$$

application
range

0,1

1

10

100

Y

-2

0

1

2

$\log(Y)$

$x_N = 0,2$

$x_u = 1$

$x_W = 5$