

$\log(\Delta Y)$

LABJNDu8

tristimulus value difference

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

ΔY

1-10

$$T^*_{LABJNDu8} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$T^*_{LABJNDu8} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

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

-1-0,1

$$T^*_u = 496, dY_u = 0,12, dY_u/Y_u = 0,0067$$

$$\log(dY) = 0,12, m_u = 0,85$$

$$dY_{90} = 0,54, A_{0n} = 1,5, A_{2n} = 0,0038, A_{1n} = 0,001$$

$$dY_{18} = 0,12, A_{1n} = 0,001, A_{2n} = 0,0038, A_{0n} = 1,5$$

$$dY_{3,6} = 0,03, Y_u = 18, dY_u = 0,12$$

$$c_x = 0,67$$

application
range

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

10

100

Y

$\log(Y)$