

$\log(\Delta Y)$

LABJNDu9

tristimulus value difference

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

ΔY

1-10

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

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

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

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

$$T^*_u = 332, dY_u = 0,16, dY_u/Y_u = 0,0592$$

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

$$dY_{90} = 0,79, A_{0n} = 1,5, A_{1n} = 0,0054, A_{2n} = 0,0044, I_{Cx} = 0,42$$

$$dY_{18} = 0,16, A_{1n} = 0,0054, A_{2n} = 0,0058$$

$$dY_{3,6} = 0,04, Y_u = 18, dY_u = 0,16$$

application
range

-2 -1 0 1 2 $\log(Y)$