

$\log(\Delta Y)$

LABJNDu8

tristimulus value difference

$Y_{nc}=Y_{wRGBnc}=100, 21, 72, 7$

ΔY

1-10

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

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

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

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

$$t^*_u = 332, dY_u = 0,17, dY_u/Y_u = 0,0096$$

$$-1-0,1 \log(dY) = 0,17, m_u = 0,90$$

$$dY_{90} = 0,80, A_{0n} = 1,5, A_{1n} = 0,0014, A_{2n} = 0,0058, c_x = 0,67$$

$$dY_{18} = 0,17, A_{1n} = 0,0014, A_{2n} = 0,0058$$

$$dY_{3,6} = 0,04, Y_u = 18, dY_u = 0,17$$

application
range

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