

$\log(\Delta Y)$

LABJNDu7

tristimulus value difference

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

ΔY

1-10

$$t^*_{LABJNDu7} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$t^*_{LABJNDu7} = \ln(A_{1n} + A_{2n}x) / (A_{2n}A_{0n}) \quad (x = Y/Y_u)$$

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

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

$t^*_u=396, dY_u=0,15, dY_u/t^*_u=0,00087$

-1-0,1 $\log(dY)=0,15, m_u=0,83$

$dY_{90}=0,68, A_{0n}=1,5, A_{1n}=0,0017, A_{2n}=0,0048, l_{cx}=0,84$

$dY_{18}=0,15, A_{1n}=0,0017, A_{2n}=0,0048$

$dY_{3,6}=0,05, Y_u=18, dY_u=0,15$

application
range

-2 $x_N=0,2$ 1 10 $x_W=5$ 100 Y
-2 -1 0 1 2 $\log(Y)$