

$\log(\Delta Y)$

LABJNDu5

tristimulus value difference

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

ΔY

1-10

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

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

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

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

$t^*_u = 332, dY_u = 0,18, dY_u/dY_u = 0,101$

-1-0,1 $\log(dY) = 0,18, m_u = 0,85$

$dY_{90} = 0,80, A_{0n} = 1,5, A_{1n} = 0,017, A_{2n} = 0,0058, c_x = 1,00$

$dY_{18} = 0,18, A_{1n} = 0,017, A_{2n} = 0,0058$

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

application range

-2 -1 0 1 10 100 $x_u = 1$ $x_w = 5$ y
-2 -1 0 1 2 $\log(Y)$