

$\log(\Delta Y)$

LABJNDu1

tristimulus value difference

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

ΔY

10

$l^*_{LABJNDu1} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$

$l^*_{LABJNDu1} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$

$dY = A_{0n}(A_{1n} + A_{2n}Y) = A_{0n}(A_{1n} + A_{2u}x)$, see CIE 230:2019

$dY_{90} = 0,35, A_{0n} = 0,6666, A_{2u} = 0,1044, c_x = 1,00$

$dY_{18} = 0,08, A_{1n} = 0,017, A_{2n} = 0,0058$

$dY_{3,6} = 0,02, Y_u = 18, dY_u = 0,08$

$l^*_u = 748, dY_u = 0,08, dY_u/Y_u = 0,0044$

$\log(dY) = 0,08, m_u = 0,85$

application
range

0,1

10

100

Y

$x_N = 0,2$ $x_W = 5$ $x_u = 1$ $\log(Y)$