

$\log(\Delta Y)$

LABJNDu1

tristimulus value difference

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

ΔY

1-10

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

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

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

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

$$l^*_u=332, dY_u=0,18, dY_u/Y_u=0,0101$$

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

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

$$dY_{18}=0,18, A_{0n}=0,517, A_{2n}=0,0058$$

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

application
range

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