

$\log(\Delta Y)$

LABJNDu4

tristimulus value difference

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

ΔY

1-10

$$l^*_{LABJNDu4} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{LABJNDu4} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

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

$$l^*_u=332, dY_u=0,16, dY_u/Y_u=0,0092$$

$$-1-0,1 \log(dY)=0,16, m_u=0,93$$

$$dY_{90}=0,79, A_{0n}=1,5, A_{2u}=0,1044, l_{Cx}=0,42$$

$$dY_{18}=0,16, A_{1n}=0,007, A_{2n}=0,0058$$

$$dY_{3,6}=0,04, Y_u=19, dY_u=0,16$$

application
range

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