

$\log(\Delta Y)$

LABJNDu3

tristimulus value difference

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

ΔY

1-10

$$l^*_{LABJNDu3} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{LABJNDu3} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

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

$$l^*_u=496, dY_u=0,12, dY_u/Y_u=0,0067$$

$$\log(dY)=0,12, m_u=0,85$$

$$dY_{90}=0,54, A_{0n}=1,5, A_{2u}=0,0099, l_{cx}=0,67$$

$$dY_{18}=0,12, A_{1n}=0,011, A_{2n}=0,0038$$

$$dY_{3,6}=0,03, Y_u=18, dY_u=0,12$$

application
range

0,1

1

10

100

Y

-2

-1

0

$x_N=0,2$

1

$x_W=5$

2

$\log(Y)$