

$\log(\Delta Y)$

LABJNDu3

tristimulus value difference

$Y_{nc}=Y_W \text{RGB}_{nc}=100, 21, 72, 7$

ΔY

10

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

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

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

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



$$l^*_{\text{u}} = 332, dY_{\text{u}} = 0,17, dY_{\text{u}}/Y_{\text{u}} = 0,0096$$

$$-1,0,1 \log(dY) = 0,17, m_{\text{u}} = 0,90$$

application
range

-2

0,1

1

$x_N=0,2$

10

$x_u=1$

100

Y

-1

0

$x_W=5$

2

$\log(Y)$