

$\log(\Delta Y)$

LABJNDu3

Normfarbwertdifferenz

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

ΔY

1-10

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

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

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

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

$$l^*_u = 496, dY_u = 0,13, dY_u/Y_u = 0,0072$$

$$-1-0,1 \log(dY) = 0,13, m_u = 0,80$$

Anwendungsbereich

0,1

1

10

$x_u = 1$

100

y

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

$\log(Y)$