

log (Y/ΔY)

LABJNDu0

tristimulus value contrast

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$C_r = (Y/\Delta Y)$

4
10000

$L^*_{LABJNDu0} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$

$L^*_{LABJNDu0} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$

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

3
1000

$(Y/dY)_{90} = 111,31, A_{0n} = 1,5, A_{2u} = 0,1044, c_x = 1,00$

$(Y/dY)_{18} = 98,84, A_{1n} = 0,017, A_{2n} = 0,0058$

$(Y/dY)_{3,6} = 63,35, Y_u = 18, dY_u = 0,18$

2
100

$L^*_u = 332, dY_u = 0,18, Y_u/dY_u = 98$

$\log(Y/dY) = 1,99, m_u = 0,13$

application range

1

0,1

1

10

100

$x_u = 1$

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

log(Y)