

log (Y/ΔY)

LABJNDu4

tristimulus value contrast

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

$$C_r = (Y/\Delta Y)$$

4  
10000

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

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

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

3  
1000

$$(Y/dY)_{90} = 397,56, A_{0n} = 1,0, A_{2u} = 0,0438, c_x = 0,42$$

$$L^*_u = 1187,84, Y_u = 0,05, Y_w/dY_u = 3,53, A_{2n} = 0,0024$$

$$(Y/dY)_{3,6} = 226,27, \tau_u = 18, dY = 2,53$$

$$\log(Y/dY) = 2,54, m_u = 0,13$$

2  
100

1

0,1

1

10

100

1000

Y

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

log(Y)

application range