

log (Y/ ΔY)

LABJNDu3

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

4 10000

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

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

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

3 1000

$$(Y/dY)_{90} = 112,48, A_{0n} = 1,5, A_{2u} = 0,1044, c_x = 0,67$$

$$(Y/dY)_{18} = 103,63, A_{1n} = 0,011, A_{2n} = 0,0058$$

$$(Y/dY)_{3,6} = 74,37, Y_u = 18, dY_u = 0,17$$

2 100

$$L^*_u = 332, dY_u = 0,17, Y_u/dY_u = 103$$

$$\log(Y/dY) = 2,01, m_u = 0,09$$

application
range

1

0,1

1

10

100

Y

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

log(Y)