

$\log(Y/\Delta Y)$

LABJNDu3

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

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

$$(Y/dY)_{90} = 163,60, A_{0n} = 1,5, A_{2u} = 0,0699, c_x = 0,67$$

$$(Y/dY)_{18} = 138,01, A_{1n} = 0,017, A_{2n} = 0,0038$$

$$(Y/dY)_{3,6} = 77,44, Y_u = 18, dY_u = 0,13$$

$$l^*_u = 496, dY_u = 0,13, Y_u/dY_u = 138$$

2
100
 $\log(Y/dY) = 2,13, m_u = 0,18$

application
range

1
-2 -1 0 1 10 100 y
 $x_N = 0,2$ $x_W = 5$ $x_u = 1$