

L^* LABJNDu2 standard lightness L^*

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

 L^*

4 10000

$$L^*_{LABJNDu2} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu2} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$L^*_{N(3,6)} = 391, L^*_u(18) = 890, L^*_{w(90)} = 1385$$

$$\log[L^*/L^*_u] = 0, m_u = 0,33$$

$$L^*_u = 49, L^*_u = 890$$

2 100

$$L^*_{90} = 1385,40, A_{0n} = 0,5666, A_{2u} = 0,0876, c_x = 0,84$$

$$L^*_{18} = 889,89, A_{1n} = 0,014, A_{2n} = 0,0048$$

$$L^*_{3,6} = 391,38, L^*_u = 89,89, Y_u = 18$$

application
range

1

0,1

-1

10

1

100

2

 Y $\log(Y)$ $x_u = 1$ $x_N = 0,2$ $x_w = 5$