

L^* LABJNDu3 standard lightness L^*

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

 L^*

4 10000

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

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

$$L^*_{N(3,6)} = 327, L^*_u(18) = 744, L^*_{w(90)} = 1158$$

$$3 \cdot 10 \log[L^*/L^*_u] = 0, m_u = 0,33$$

$$L^*_u = 49, L^*_u = 744$$

2 100

$$L^*_{90} = 1157,95, A_{0n} = 0, A_{2u} = 0,0699, c_x = 0,67$$

$$L^*_{18} = 743,79, A_{1n} = 0,11, A_{2n} = 0,0038$$

$$L^*_{3,6} = 327,12, L^*_u = 743,79, Y_u = 18$$

application
range

1

0,1

1

10

 $x_u = 1$

100

Y

-2

-1

0

 $x_N = 0,2$

1

 $x_W = 5$

2

 $\log(Y)$