

L^* LABJNDu2 standard lightness L^*

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

 L^*

4 10000

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

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

$$L^*_N(3,6) = 174, L^*_u(18) = 396, L^*_W(90) = 616$$

3 1000

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

$$L^*_u = 49, L^*_u = 396$$

2 100

$$L^*_{90} = 615,73, A_{0n} = 1,5, A_{2u} = 0,0876, c_x = 0,84$$

$$L^*_{18} = 395,50, A_{1n} = 0,14, A_{2n} = 0,0048$$

$$L^*_{3,6} = 173,94, L^*_u = 395,50, Y_u = 18$$

application
range

1

0,1

1

10

100

Y

-2

-1

0

1

2

log(Y)

 $x_N = 0,2$ $x_u = 1$ $x_W = 5$