

L^*/L_u^* LABJNDu4 relative standard lightness L^*/L_u^* $Y_{nc}=L^*_w \text{RGB}_{nc}=100, 52, 87, 31$ L^*/L_u^*

2 100

 $L^*_{\text{LABJNDu4}} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$ $L^*_{\text{LABJNDu4}} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$ $L^*_N(3,6)=783, L^*_u(18)=1780, L^*_w(90)=2771$

1 10

 $L^*_{90}/L^*_u = 1,55, A_{0n}=0,6666, A_{2u}=0,0438, c_x=0,42$ $L^*_{18}/L^*_u = 1,00, A_{1n}=0,007, A_{2n}=0,0024$ $L^*_{3,6}/L^*_u = 0,43, L^*_u=1779,78, Y_u=18$

0 1

 $\log[L^*/L^*_u]=0, m_u=0,33$ $L^*_u=49, L^*_u=1780$ application
range

0,1

1

10

100

Y

-1

0

1

2

log(Y)

 $x_u=1$ $x_w=5$