

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

1

0,1

1

10

 $x_u=1$

100

 y

-2

-1

0

 $x_N=0,2$

1

 $x_w=5$

2

 $\log(Y)$

application range