

L^* CIELABn3 standard lightness L^* $Y_{nc}=L^*_{wRGBnc}=100, 52, 87, 31$ L^*

4 10000

 $L^*_{CIELABn3}=100(Y/Y_n)^{1/2,0}+1 \quad (Y_n=100, Y_{nc}/100<Y\leq Y_{nc})$ $L^*_{N(3,6)}=20, L^*_u(18)=43, L^*_W(90)=95$

3 1000

 $L^*_{90}=94,90, \gamma=2,0, 1/\gamma=1/2,0=0,50$ $L^*_{18}=42,87, S_n=99,21, D_n=0,78$ $L^*_{3,6}=19,56, L^*_n=42,87, Y_n=18$

2 100

 $\log[L^*/L^*_u]=0, m_u=0,49$ $L^*_u=49, L^*_u=43$ application
range

1

0,1

1

10

1

100

 $Y_u=18$ Y

-2

-1

0

 $Y_N=3,6$

1

1

100

 $Y_W=90$

2

 $\log(Y)$