

l^* CIELABn3 standard lightness l^* $Y_{nc}=Y_{WRGBnc}=100, 21, 72, 7$ 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

10 $Y_u=18$ 100 Y

-2

-1

0

 $Y_N=3,6$ 1 $Y_W=90$ 2 $\log(Y)$