

l^* CIELABn4 standard lightness l^* $Y_{nc}=Y_{WRGBnc}=100, 21, 72, 7$ l^*

4 10000

 $l^*_{CIELABn4}=87(Y/Y_n)^{1/1,5}+13 \quad (Y_n=100, Y_{nc}/100 < Y \leq Y_{nc})$ $l^*_{N(3,6)}=22, l^*_u(18)=41, l^*_W(90)=94$

3 1000

 $l^*_{90}=94, 10, \gamma=1,5, 1/\gamma=1/1,5=0,66$ $l^*_{18}=40,74, S_n=86,98, D_n=13,01$ $l^*_{3,6}=22,48, l^*_n=40,74, Y_n=18$

2 100

 $\log[l^*/l^*_u]=0, m_u=0,45$ $L^*_u=49, l^*_u=41$ application
range

1

0,1

10

1

100

Y

-2

-1

0

 $Y_N=3,6$

1

1

 $Y_W=90$

2

 $\log(Y)$