

l^* CIELABu4 standard lightness l^* $Y_{nc}=Y_{WRGBnc}=100, 21, 72, 7$ l^*

4 10000

 $l^*_{CIELABu4}=37(Y/Y_u)^{1/1,5}+13 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$ $l^*_{N(3,6)}=26, l^*_u(18)=50, l^*_W(90)=121$

3 1000

 $l^*_{90}=121,15, \gamma=1,5, 1/\gamma=1/1,5=0,66$ $l^*_{18}=50,00, S_n=36,98, D_n=13,01$ $l^*_{3,6}=25,63, l^*_u=50,00, Y_u=18$

2 100

 $\log[l^*/l^*_u]=0, m_u=0,49$ $L^*_u=49, l^*_u=50$

application range

1

0,1

1

10

1

10

100

Y

Y_u=18Y_W=90

2

Y_N=3,6

1

10

100

log(Y)