

l^* CIELABn2 standard lightness l^* $Y_{nc}=Y_{W\text{RGB}nc}=100, 21, 72, 7$ l^*

4 10000

 $l^*_{\text{CIELABn2}}=109(Y/Y_n)^{1/2,5}-9 \quad (Y_n=100, Y_{nc}/100 < Y \leq Y_{nc})$ $l^*_{N(3,6)}=20, l^*_u(18)=46, l^*_{W(90)}=96$

3 1000

 $l^*_{90}=95,52, \gamma=2,5, 1/\gamma=1/2,5=0,40$ $l^*_{18}=46,18, S_n=108,42, D_n=-8,42$ $l^*_{3,6}=20,19, l^*_n=46,18, Y_n=18$

2 100

 $\log[l^*/l^*_u]=0, m_u=0,47$ $L^*_u=49, l^*_u=46$

application range

1

0,1

10

 $Y_u=18$

100

 Y

-2

-1

0

 $Y_N=3,6$

1

 $Y_W=90$

2

 $\log(Y)$