

L^*/L_u^* CIELABu4 relative standard lightness L^*/L_u^* $Y_{nc}=L^*_wRGB_{nc}=100, 52, 87, 31$ L^*/L_u^*

2 100

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

1 10

0 1

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

application range

0,1

1

10

100

 $Y_u=18$

100

 Y

-2

-1

0

 $Y_N=3,6$

1

 $Y_w=90$

2

 $\log(Y)$