

l^*/l_u^* CIELABu4 relative standard lightness l^*/l_u^* $Y_{nc}=Y_{wRGBnc}=100, 21, 72, 7$ 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

 $Y_N = 3,6$

1

10

100

 $Y_W = 90$

2

 $\log(Y)$