

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

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

Y

log(Y)