

L^* LABJNDu4 standard lightness L^* $Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$ L^*

4 10000

 $L^*_{LABJNDu4} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$ $L^*_{LABJNDu4} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$ $L^*_{N(3,6)} = 782,77, L^*_{u(18)} = 1779,78, L^*_{w(90)} = 2770,81$ 3 1000 $L^*_u = 49, L^*_u = 1780$

2 100

 $L^*_{90} = 2770,81, A_{0n} = 0,6666, A_{2u} = 0,0438, c_x = 0,42$ $L^*_{18} = 1779,78, A_{1n} = 0,007, A_{2n} = 0,0024$ $L^*_{3,6} = 782,77, L^*_u = 1779,78, Y_u = 18$

application range

0,1

10

 $x_u = 1$

100

 Y

1

-1

1

 $x_w = 5$

2

 $\log(Y)$