

L^* LABJNDu1 standard lightness L^*

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

 L^*

600

$$L^*_{LABJNDu1} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu1} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$L^*_{N(3,6)} = 146, L^*_u(18) = 332, L^*_W(90) = 517$$

400

$$L^*_u = 332,22, m_u = 264,66$$

$$L^*_u = 49, L^*_u = 332$$

200

$$L^*_{90} = 517,21, A_{0n} = 1,5, A_{2n} = 0,1044, c_x = 1,00$$

$$L^*_{18} = 332,22, A_{1n} = 0,017, A_{2n} = 0,0058$$

$$L^*_{3,6} = 146,11, L^*_u = 332,22, Y_u = 18$$

application
range

-2

0,1

-1

0

 $x_N = 0,2$

10

1

 $x_W = 5$

100

2

 y $\log(Y)$