

$L^*$ LABJNDu3 standard lightness  $L^*$ 

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

 $L^*$ 

4 10000

$$L^*_{LABJNDu3} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu3} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$L^*_{N(3,6)} = 218, L^*_u(18) = 496, L^*_{W(90)} = 772$$

3 1000

$$\log[L^*/L^*_u] = 0, m_u = 0,33$$

$$L^*_u = 49, L^*_u = 496$$

2 100

$$L^*_{90} = 771,96, A_{0n} = 1, A_{2u} = 0,0699, c_x = 0,67$$

$$L^*_{18} = 495,86, A_{1n} = 0,11, A_{2n} = 0,0038$$

$$L^*_{3,6} = 218,08, L^*_u = 495,86, Y_u = 18$$

application range

1

0,1

1

10

100

 $Y$ 

-2

-1

0

1

2

 $\log(Y)$ 

$$x_N = 0,2$$

$$x_u = 1$$

$$x_W = 5$$