

$\log(L^*)$

LABJNDu0 standard lightness L^*

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

L^*

4 10000

$$L^*_{LABJNDu0} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu0} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$L^*_N(3,6) = 329, L^*_u(18) = 748, L^*_w(90) = 1164$$

$$3 \cdot 10 \log[L^*/L^*_u] = 0, m_u = 0,33$$

$$L^*_u = 49, L^*_u = 748$$

2 100

$$L^*_{90} = 1163,74, A_{0n} = 6666, A_{2u} = 0,1044, c_x = 1,00$$

$$L^*_{18} = 747,51, A_{1n} = 0,017, A_{2n} = 0,0058$$

$$L^*_{3,6} = 328,76, L^*_u = 747,51, Y_u = 18$$

application
range

1

0,1

1

10

$x_u = 1$

100

2

$x_w = 5$

Y

-2

-1

0

1

2

$\log(Y)$