

$\log(l^*)$

LABJNDu0 standard lightness l^*

$Y_{nc}=Y_{wRGBnc}=100, 21, 72, 7$

l^*
4 10000

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

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

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

3 1000

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

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

2 100

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

$l^*_{18}=332,22, A_{1n}=0,0017, A_{2n}=0,0058$

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

application
range

1
-2 -1 0 1 10 100 Y
0,1 1 2
 $x_N=0,2$ $x_u=1$ $x_W=5$
log(Y)