

$\log (L^*/L^*_u)$ relative CIELAB lightness

L^*/L^*_u with $Y_n=100$

2 100

relative normalized CIELAB data

CIELAB lightness for all colours with $L^*_u=18$:

$$L^*_{\text{CIELAB}} = s(Y/Y_n)^{1/3} - 16 \quad (s=100, Y_n=100, 1 < Y \leq 100)$$

1 10

$L^*_u=50, Y_u=18$

$\log[(L^*)/(L^*_u)] = 0, m_u = 0,43$

application
range

