

$\log(L^*)$

CIELAB lightness

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with $Y_u=90/5=18$, $Y_u=90/5=18$

CIELAB lightness for all colours with $L^*_u=50$:

$$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16 \quad (s=66, Y_u=18, 1 < Y \leq 100)$$

$$(s=66, Y_u=18, 1/255 < Y < 7)$$

