

$\log(L^*_{ab}/L^*_{ab,u})$ CIELAB sample lightness L^*_{ab}
normalized to the
background lightness $L^*_{ab,u}$

normalized CIELAB data

CIELAB lightness for surface colours

$$L^*_{ab} = 116 (Y/Y_n)^{1/3} - 16 \quad (Y_n=100, 1 < Y < 100)$$

