

L^*/L_u^*
CIELAB

relative lightness L^*/L_u^*
normalized to the
background lightness L_u^*

$$L^*_{\text{CIELAB}} = 116 (Y/Y_n)^{1/3} - 16 \quad (Y_n=100, 0,89 \leq Y) \quad [2a]$$

$$L^*_{\text{CIELAB}} = 65,4 (Y/Y_u)^{1/3} - 16 \quad (Y_u=18, 0,89 \leq Y) \quad [2b]$$

