

log (L^*/L^*_u)
 CIELAB

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

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

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

