

log (L^*/L_u^*)
 CIELAB

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

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

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

regularity index: $g_5^*=88, g_9^*=74,$ [ISO 15775]

1 linearized real output:

equally spaced 9 steps in CIELAB
 after contrast transfer $C_Y=25:1$ to $2:1$

