

$\log[L^*_{\text{CIELAB}}]$

lightness  $L^*_{\text{CIELAB}}$

$$L^* = 116 (Y/Y_n)^{1/3} - 16, \quad Y_n=100, Y_u=18, 1 \leq Y \leq 100 \quad [1a]$$

$$L^* = k_u (Y/Y_u)^{1/3} - 16, \quad k_u=116 [Y_u/Y_n]^{1/3} = 65,50 \quad [2a]$$

