

log (L^*/L_u^*)
CIELAB & TUBJND

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

$$L^*_{TUBJND} = d \ln [1 + b \cdot (Y/Y_u)] \quad d=25,6 \quad b=6,141 \quad [2a]$$

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

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 $2:1$

