

log [(Y/ΔY) / (Y/ΔY)<sub>u</sub>]  
 CIELAB & TUBJND

CIE-Y contrast  
 normalized to (Y/ΔY)<sub>u</sub>

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

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

