

$$(Y/\Delta Y) / (Y/\Delta Y)_u$$

$Y_{\text{CIELAB}}$  contrast  
normalized to  $[Y/\Delta Y]_{u,\text{CIELAB}}$

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

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

$$(Y/dY) / (Y/dY)_u = [Y/Y_u]^{1/3} \quad [3h]$$

