

$(\Delta Y/Y) / (\Delta Y/Y)_u$ Y_{CIELAB} sensitivity
normalized to $[\Delta Y/Y]_{u,\text{CIELAB}}$

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

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

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

