

$\log [(\Delta Y/Y) / (\Delta Y/Y)_u]$

CIELAB-Y sensitivity  
normalized to  $(\Delta Y/Y)_u$

$S_r/S_{ru}=(\Delta Y/Y)/(\Delta Y/Y)_u$

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

$L^* = r (Y/Y_u)^n - d \quad (r = s (Y_u/Y_n)^n = 65,49, L^*_u = r - d)$  [1b]

$dY / Y = [ (Y_n / (n s)) ] (Y / Y_n)^{1-n} / Y$  [3c]

$(dY / Y)_u = [ (Y_n / (n s)) ] (Y_u / Y_n)^{1-n} / Y_u$  [3d]

$10 (dY / Y) / (dY / Y)_u = (Y / Y_u)^{-n}$  [3e]

$\log [(dY / Y) / (dY / Y)_u] = (-n) \log(Y / Y_u)$  [3f]

