

$\log [(Y/\Delta Y) / (Y_u/\Delta Y_u)]$  CIE Y-based contrast normalized to  $Y_u/\Delta Y_u$

$$C_r/C_{ru} = (Y/\Delta Y) / (Y_u/\Delta Y_u)$$

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

$$Y/dY = (3/116) \cdot Y_u^{1/3} Y^{2/3} \quad [2h]$$

$$Y/dY = e \cdot (Y/Y_u)^{2/3} \quad [3h]$$

$$Y/dY = f \cdot (Y/Y_u)^{2/3} \quad [4h]$$

$$e = 833,048 \quad f = 5721,613 \quad [5h]$$

