

$$(Y/\Delta Y) / (Y_u/\Delta Y_u)$$

CIE Y-based contrast

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

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

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

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

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

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

$$L^*_u=50, Y_u=18, dY_u=0,83, Y_u/dY_u=21$$

$$\log[(Y/dY)/(Y_u/dY_u)] = 0, m_u = 0,33$$

