

$\log [(\Delta Y/Y) / (\Delta Y_u/Y_u)]$ CIE Y based contrast
 $C_r/C_{ru}=(\Delta Y/Y)/(\Delta Y_u/Y_u)$ normalized to $\Delta Y_u/Y_u$

$$L^* = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

$$A_0=1.0 \quad A_1=0.017 \quad A_2=0.0058$$

tristimulus value Y contrast

$$\log[(dY/Y)/(dY_u/Y_u)] = \log [(A_1 + A_2 \cdot Y) / Y] - \log [(A_1 + A_2 \cdot Y_u) / Y_u]$$

