

$$(Y/\Delta Y) / (Y/\Delta Y)_u$$

**CIE Y-based contrast
normalized to $Y_u/\Delta Y_u$**

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

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

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

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

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

$$e = 833,048$$

$$f = 5721,613$$

1,757

[1h]

[2h]

[3h]

[4h]

[5h]

$$L^*_u=50, Y_u=18, dY_u=0,83, (Y/dY_u)=22$$

$$[(Y/dY)_u/(Y/dY)_u]=1, m_u=0,78$$

0,378

application
range

0,1

1

10

100

$Y_u=18$ **100 Y**

