

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

## CIE Y-based contrast

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

3

$$L^*_{85,2} = (t/a) \ln (1 + a \cdot Y) \quad [1h]$$

$$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad [2h]$$

tristimulus value  $Y$  contrast

2

$$(Y/dY) / (Y_u/dY_u)$$

$$= [ Y / (1 + a \cdot Y) ] / [ Y_u / (1 + a \cdot Y_u) ] \quad [4h]$$

1

$$L^*_{85,2,u}=508, Y_u=18, dY_u=0,08, Y_u/dY_u=222 \quad 1,129$$

$$\log[(Y/dY)/(Y_u/dY_u)]=0, m_u=0,13$$

0

0,295

10

$Y_u=18 \quad 100 \quad Y$

-2

-1

0

1

2

$\log(Y)$

application  
range