

$\log(\Delta Y/Y)$

CIE Y based contrast

$$C_r = (\Delta Y/Y)$$

$$L^* = (t/a) \ln(1 + a \cdot Y)$$

$$a = 0.3411 \quad t = 88.23 \quad t/a = 258.6$$

relative tristimulus value Y contrast

$$\log(dY/Y) = \log[(1 + a \cdot Y) / (t \cdot Y)]$$

-1

0,1

-2

0,01

$$\log(dY/Y) = -2.34, m_u = -0.13$$

$$Y_u = 18, dY_u = 0.08, dY_u/Y_u = 0.004$$

-3

0,1

1

10

$Y_u = 18 \quad 100 \quad Y$

2 $\log(Y)$

application
range