

$\log(\Delta Y/Y)$

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

CIE tristimulus
value Y contrast

0 1

$$L^* = (t/a) \ln [1 + b (Y/Y_u)]$$

$$a=0.3411 \quad t=88.23 \quad t/a=258.6 \quad b=a \cdot Y_u=6.14$$

tristimulus value Y contrast

-1 0,1

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

-2 0,01

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

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

application
range

-3 0,1

1

10

$Y_u = 18$ 100 Y

-2

-1

0

1

2

$\log(Y)$