

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

relative CIE tristimulus
value Y difference

$\Delta Y / \Delta Y_u$

2

100

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

$$a = 0.3411$$

$$t/a = 258.6$$

relative tristimulus difference

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

1

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

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

$$\log[(dY)/(dY_u)] = 0, m_u = 0.86$$

0

application

range

-2

-1

0

10

2

$Y_u = 18 \quad 100 \quad Y$

$\log(Y)$