

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

relative CIE tristimulus
value Y difference

$\Delta Y/\Delta Y_u$

2 100 $L^* = (t/a) \ln(1 + a \cdot Y) \quad a=0.3411 \quad t/a=258.6$

relative tristimulus difference

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

1 10

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

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

0 1

application
range

$Y_u=18 \quad 100 \quad Y$

-1

0,1

1

10

2

$\log(Y)$

-2

-1

0

1

2