

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

relative CIE tristimulus
value Y difference

$\Delta Y/\Delta Y_u$

2

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

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

relative tristimulus value Y difference

1

10

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

0

1

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

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

application
range

$Y_u=18 \quad 100 \quad Y$

$\log(Y)$

-2

-1

0

1

2