

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

relative CIE tristimulus
value Y difference

$\Delta Y/\Delta Y_u$

2 100 $L^* = (t/a) \ln [1 + b (Y/Y_u)]$

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

relative tristimulus value Y difference

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

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

$Y_u=18$ 100 Y

-1 0 1 2 $\log(Y)$