log [(Y/ΔY) / (Y_u/ΔY_u)]   CIE *Y*-based contrast

$C_r/C_{ru} = (Y/\Delta Y)/(Y_u/\Delta Y_u)$ normalized to $Y_u/\Delta Y_u$

$100L^*_{85,2} = (t/a)\ln(1 + a \cdot Y)$ [1h]

a=0,3411   t=88,23   t/a=258,6   [2h]

tristimulus value *Y* contrast

$(Y/dY) / (Y_u dY_u)$

$= [Y / (1 + a \cdot Y)] / [Y_u / (1 + a \cdot Y_u)]$ [4h]

$Y_u=18$, $dY_u=0,08$, $(Y/dY_u)=222$
log[(Y/dY)_u/(Y/dY)_u]=0, $m_u=0,13$

1,129

0,295

application range

0,1   1   10 $Y_u=18$ 100 *y*

eer61–8a