

$\log(Y/\Delta Y)$

CIE Y-based contrast

$C_r = (Y/\Delta Y)$

$L^* = 116 (Y/Y_n)^{1/3} - 16 \quad (Y_n=100, 1 \leq Y \leq 100)$

$Y/dY = (3/116) \cdot Y_n^{1/3} Y^{2/3}$

$Y/dY = e \cdot (Y/Y_n)^{2/3}$

$Y/dY = f \cdot (Y/Y_n)^{2/3}$

$e = 833,048, f = 9743,392$

2 100

[1g]

[2g]

218,3

[3g]

[4g]

[5g]

$\log[(Y_u/dY_u) = 1,33, m_u=0,33]$
 $Y_u=18, dY_u=0,83, Y_u/dY_u=21$

1 4,8

$Y_N=3,6 \quad Y_u=18 \quad Y_W=90$

0 1 10 100 1000 10000 Y
-1 0 1 2 3 4 $\log Y$

application range