

$\log(Y/\Delta Y)$

CIE Y-based contrast

$$C_r = (Y/\Delta Y)$$

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

$$a = 0,3411 \quad t = 88,23 \quad t/a = 258,6 \quad [2g]$$

tristimulus value Y contrast

$$Y/dY = (1 + a \cdot Y) / (t \cdot Y) \quad [3g]$$

3 1000

$$\log[(Y_u/dY_u) = 2,34, m_u = 0,13]$$

258,5

2 100

$$Y_u = 18, dY_u = 0,08, Y_u/dY_u = 222$$

16,6

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

application range

1 10 100 1000 10000 Y