

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

CIE Y-based contrast
normalized to $Y_u/\Delta Y_u$

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

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

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

tristimulus value Y contrast

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

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

1 **10**

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

1,162

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

application
range

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

0,074

1

10

100

1000

10000 Y

-1

0

1

2

3

4 $\log Y$