

$Y/\Delta Y$

CIE Y-based contrast

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

300

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

[1g]

$$a=0,6823 \quad t=88,23 \quad t/a=129,3$$

[2g]

tristimulus value Y contrast

$$Y/dY = (1 + a \cdot Y) / (t \cdot Y)$$

[3g]

200

129,2

$$\log[(Y/dY)/(Y_u/dY_u)] = 0, m_u = 0,07$$

$$L^*_{85,2} = 33,4, Y_u = 18, dY_u = 0,15, Y_u/dY_u = 119$$

application
range

21,0

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

1

10

100

1000

10000 Y

-1

0

1

2

3

4 log Y