

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

CIE LABu2 relativer
Normfarbwertkontrast

$$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y)_u \quad Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$$

$$l^*_{CIE LABu2} = 59 (Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log[(Y/dY)/(Y/dY)_u] = (1/2,5) \log(Y/Y_u)$$

2
100

$$(Y/dY)_{90}/(Y/dY)_u = 1,90, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$$

$$(Y/dY)_{18}/(Y/dY)_u = 1,00, S_n = 58,42, D_n = -8,42$$

$$(Y/dY)_{3,6}/(Y/dY)_u = 0,52, Y_u = 18, dY_u = 4,27$$

1
10

$$\log[(Y/dY)/(Y/dY)_u] = 0, m_u = 0,39$$

$$l^*_u = 50, dY_u = 4,27, Y_u/dY_u = 4$$

Anwendungsbereich

0.1

1

10

100

$Y_u = 18$

Y

-1

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$