

$\log \left[\frac{(Y/\Delta Y)}{(Y_u/\Delta Y_u)} \right]$

Relativer CIELAB-

$\log(S_r)$ $S_r/S_{ru} = (Y/\Delta Y)/(Y_u/\Delta Y_u)$ Normfarbwertkontrast

3-1000

$$L^*_{\text{CIELAB}} = 116 \left(\frac{Y}{Y_n} \right)^{1/3} - 16$$

Relativer CIELAB-Normfarbwertkontrast

$$\log \left[\frac{(Y/\Delta Y)}{(Y_u/\Delta Y_u)} \right] = \log \left(\frac{Y}{Y_u} \right)^{1/3}$$

2-100

$$L^*_{u}=50, Y_u=18, dY_u=0,83$$

$$L^*_{u}=50, Y_u=18, dY_u=0,83, Y_u/dY_u=21$$

1-10

$$\log \left[\frac{(Y/dY)}{(Y_u/dY_u)} \right] = 0, m_u = 0,33$$

Anwendungs-
bereich

0

0,1
-1

1
0

$Y_N=4$

10
1

$Y_u=18$

100
2

y
 $\log(Y)$