

The graph plots the logarithm of the normalized color difference against the logarithm of the color coordinate Y . The y-axis ranges from -1 to 2, and the x-axis ranges from -2 to 2. A dashed curve represents the Y -curve for $ij=3$, with points labeled at $Y_u = 11, 20, 12, 10, 11, 12, 100$. The x-axis is labeled $\log Y$ and has tick marks at -2, -1, 0, 1, 2. The y-axis is labeled $\log(\Delta Y / \Delta Y_u) \cdot \Delta Y / \Delta Y_u$.

HAULAB-Normfarbwertdifferenz

$\Delta Y / \Delta Y_u$ ΔY normiert für ΔY_u

$100L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=11, s=134,6, n=0,31, d=19,2)$ [1a]

$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r-d = 59,8)$ [1b]

$Y_{\text{curve}}, ij=3, Y_{uij}=11, L^*_{uij}=50$

$k=99, Y_{kij}=100, L^*_{kij}=115,3, \Delta Y / \Delta Y_u = 4,38$

$k=11, Y_{kij}=12, L^*_{kij}=50,4, \Delta Y / \Delta Y_u = 1,01$

$k=1, Y_{kij}=2, L^*_{kij}=20,7, \Delta Y / \Delta Y_u = 0,29$

$k=0, Y_{kij}=1, L^*_{kij}=12,9, \Delta Y / \Delta Y_u = 0,18$

$m_{nu} = 1-n = 0,690$

$m_u = 0,636$

$L^*_{TUB}/L^*_{TUB,u} = (Y_{TUB})^{1/n}(10) = 100$

$L_{aw} = 40 \text{ cd/m}^2$

Anwendungsbereich

$Y_u = 11 \quad 0,030 \quad 0,641$

$Y_u = 20 \quad -0,738 \quad 10$

$Y_u = 12 \quad 100$

$Y_u = 10 \quad 100$

$Y_u = 11 \quad 100$

$Y_u = 12 \quad 100$

$Y_u = 100 \quad 100$