LABJND colour difference formula of CIE 230:2019
Modifications with normalization to Y_u of surround

$dY = A_1 + A_2 Y$ error 0,0044 $A_1 = 0,0170, \; A_2 = 0,0058$ **[1d]**

$\quad = A_1 + A_{2u}(Y/Y_u)$ $A_1 = 0,0170, \; A_{2u} = 0,1004 = A_2 Y_u$ **[2d]**

$$\int \frac{dY}{A_1 + A_2 Y} = \frac{1}{A_2} \ln \left| A_1 + A_2 Y \right| = F^*(Y) \qquad (A_3 = 1) \quad \textbf{[1i]}$$

$dY = A_1[1 + A_2 Y]$ 0,0044 $A_1 = 0,0170, \; A_2 = 0,3343$ **[5d]**

$\quad = A_1[1 + A_{2u}(Y/Y_u)]$ $A_1 = 0,0170, \; A_{2u} = 5,931 = Y_u A_2$ **[6d]**

$$\frac{1}{A_1} \int \frac{dY}{1 + A_2 Y} = \frac{1}{A_1 A_2} \ln \left| 1 + A_2 Y \right| = F^*(Y) \qquad (A_3 = 1) \quad \textbf{[5i]}$$

DEQ30−4N