

L^*_{TUBJND}

lightness L^*_{TUBJND}

1500 $L^*_{TUBJND} = (t/a) \ln (1 + a \cdot Y)$ [1a]

$L^*_{TUBJND} = (t/a) \ln [1 + b \cdot (Y/Y_u)]$ [2a]

$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad b=6,141 \quad Y_u=18$ [3a]

1000

500

$L^*_{TUBJND,u}=2,70, m_u=516,12$

$L^*_{TUBJND,u}=508, Y_u=18$

 application range

 N threshold

0 0,1 1 10 100 1000 Y
 -2 -1 0 1 2 3 $\log Y$