

$\log(L^*_{85,2}/L^*_{85,2,u})$ LABJND lightness

$$L^*/L^*_{85,2,u}$$

$L^*_{85,2}$ normalized to the background lightness $L^*_{85,2,u}$

2
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-1
-2

$$L^*/L^*_{85,2,u} = (t/a) \{ \ln(1 + a \cdot Y) - \ln(1 + a \cdot Y_u) \} \quad [1b]$$

$$L^*/L^*_{85,2,u} = (t/a) \{ \ln[1 + b \cdot (Y/Y_u)] - \ln(1 + b) \} \quad [2b]$$

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

1
0
-1
-2

$$\log[(L^*_{85,2,u}/L^*_{85,2,u})] = 0, m_u = 0,43$$

$$L^*_{85,2,u} = 508, Y_u = 18$$

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heb61-5a

$\log[(\Delta Y/Y) / (\Delta Y/Y_u)]$ CIE Y sensitivity

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

normalized to $\Delta Y_u/Y_u$

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$$100 L^*_{85,2} = (t/a) \ln(1 + a \cdot Y) \quad [1f]$$

$$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad [2f]$$

tristimulus value Y sensitivity

$$(dY/Y) / (dY_u/Y_u) = [(1 + a \cdot Y) / Y_u] / [(1 + a \cdot Y_u) / Y_u] \quad [3f]$$

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