

$L^*_{85,2}/L^*_{85,2}$ LABJND lightness $L^*_{85,2}$ normalized to the background lightness $L^*_{85,2}$ $L^*/L^*_a(0) \ln(1+a \cdot Y) - \ln(1+a \cdot Y_a)$ [1a] $L^*/L^*_a(0) \ln(1+b \cdot (Y/Y_a)^{1.5}) - \ln(1+b)$ [1b] $a=0,3411 \quad b=88,23 \quad t_a=258,6 \quad b_a=6,141$ [1c]	$L^*/L^*_a$ CIELAB lightness $L^*$ normalized to the background lightness $L^*_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=116, n=1/3, d=16)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1c] $\log(L^*/L^*_a) = n \log(Y/Y_a)$ [1d] $\ln(L^*/L^*_a) = \ln(10) \cdot n \log(Y/Y_a)$ [1e] $L^*/L^*_a = e^{n \log(Y/Y_a)}$ [1f]
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$(\Delta Y/Y) / (\Delta Y/Y)_a$ LABJND-Y sensitivity normalized to $(\Delta Y/Y)_a$ $L^*/L^*_a(0) \ln(1+a \cdot Y) - \ln(1+a \cdot Y_a)$ [1a] $L^*/L^*_a(0) \ln(1+b \cdot (Y/Y_a)^{1.5}) - \ln(1+b)$ [1b] tristimulus value Y sensitivity $dY/Y / dY_a/Y_a$ $-(1+a \cdot Y)/Y / (1+a \cdot Y_a)/Y_a$ [3f]	$(\Delta Y/Y) / (\Delta Y/Y)_a$ CIELAB-Y sensitivity normalized to $(\Delta Y/Y)_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=116, n=1/3, d=16)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $dY/Y_a = (1/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y$ [3c] $dY/Y_a = (1/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a$ [3d] $dY/Y_a / dY/Y_a = (r/Y_a)^{1-d}$ [3e] $\log(dY/Y_a) / dY/Y_a = (-n) \log(Y/Y_a)$ [3f]
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$L^*/L^*_a$ IECsRGB lightness $L^*$ normalized to the background lightness $L^*_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1/2.4, d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1c] $\log(L^*/L^*_a) = n \log(Y/Y_a)$ [1d] $\ln(L^*/L^*_a) = \ln(10) \cdot n \log(Y/Y_a)$ [1e] $L^*/L^*_a = e^{n \log(Y/Y_a)}$ [1f]	$L^*/L^*_a$ TUBsRGB lightness $L^*$ normalized to the background lightness $L^*_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1, \ln(10), d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot (\ln(s) - \ln(10) \log(s))$ [1c] $\log(L^*/L^*_a) = (\ln(10)/n) \log(Y/Y_a)$ [1d] $\ln(L^*/L^*_a) = \ln(10) \cdot n \log(Y/Y_a)$ [1e] $L^*/L^*_a = e^{n \log(Y/Y_a)}$ [1f]
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$(\Delta Y/Y) / (\Delta Y/Y)_a$ IECsRGB-Y sensitivity normalized to $(\Delta Y/Y)_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1/2.4, d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $dY/Y = (1/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y$ [3c] $dY/Y_a = (1/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a$ [3d] $dY/Y_a / dY/Y_a = (r/Y_a)^{1-d}$ [3e] $\log(dY/Y_a) / dY/Y_a = (-n) \log(Y/Y_a)$ [3f]	$(\Delta Y/Y) / (\Delta Y/Y)_a$ TUBsRGB-Y sensitivity normalized to $(\Delta Y/Y)_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1, \ln(10), d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $dY/Y = (1/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y$ [3c] $dY/Y_a = (1/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a$ [3d] $dY/Y_a / dY/Y_a = (r/Y_a)^{1-d}$ [3e] $\log(dY/Y_a) / dY/Y_a = (-n) \log(Y/Y_a)$ [3f]
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$\Delta Y/\Delta Y_a$ LABJND tristimulus value difference $\Delta Y$ normalized to $\Delta Y_a$ $L^*/L^*_a(0) \ln(1+a \cdot Y) - \ln(1+a \cdot Y_a)$ [1a] $L^*/L^*_a(0) \ln(1+b \cdot (Y/Y_a)^{1.5}) - \ln(1+b)$ [1b] normalized tristimulus value Y difference $dY/dY_a = (1+a \cdot Y)/(1+a \cdot Y_a)$ [3d]	$\Delta Y/\Delta Y_a$ CIELAB tristimulus value difference $\Delta Y$ normalized to $\Delta Y_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=116, n=1/3, d=16)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $dY = (Y_a/Y_a)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [2c] $dY_a = (Y_a/Y_a)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot 1,4602$ [2d] $dY/dY_a = (Y/Y_a)^{1-d}$ [2e] $\log(dY/dY_a) = (1-n) \log(Y/Y_a)$ [2f]
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$(Y/\Delta Y) / (Y/\Delta Y)_a$ LABJND-Y contrast normalized to $(Y/\Delta Y)_a$ $L^*/L^*_a(0) \ln(1+a \cdot Y) - \ln(1+a \cdot Y_a)$ [1a] $L^*/L^*_a(0) \ln(1+b \cdot (Y/Y_a)^{1.5}) - \ln(1+b)$ [1b] tristimulus value Y contrast $(dY)/(Y_a dY_a)$ $-(1/(1+a \cdot Y)) / (1/(1+a \cdot Y_a))$ [4b]	$(Y/\Delta Y) / (Y/\Delta Y)_a$ CIELAB-Y contrast normalized to $(Y/\Delta Y)_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=116, n=1/3, d=16)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $Y/\Delta Y = Y / ((r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a)$ [4c] $(Y/\Delta Y)_a = Y_a / ((r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a)$ [4d] $(Y/\Delta Y) / (Y/\Delta Y)_a = (Y/Y_a)^{1-d}$ [4e] $\log((Y/\Delta Y) / (Y/\Delta Y)_a) = (n) \log(Y/Y_a)$ [4f]
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$\Delta Y/\Delta Y_a$ IECsRGB tristimulus value difference $\Delta Y$ normalized to $\Delta Y_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1/2.4, d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $dY = (Y_a/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot 1,1746$ [2c] $dY_a = (Y_a/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot 1,0934$ [2d] $dY/dY_a = (Y/Y_a)^{1-d}$ [2e] $\log(dY/dY_a) = (1-n) \log(Y/Y_a)$ [2f]	$\Delta Y/\Delta Y_a$ TUBsRGB tristimulus value difference $\Delta Y$ normalized to $\Delta Y_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1, \ln(10), d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $dY = (Y_a/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot 1,0934$ [2c] $dY_a = (Y_a/Y_a) \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot 1,0934$ [2d] $dY/dY_a = (Y/Y_a)^{1-d}$ [2e] $\log(dY/dY_a) = (1-n) \log(Y/Y_a)$ [2f]
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$(Y/\Delta Y) / (Y/\Delta Y)_a$ IECsRGB-Y contrast normalized to $(Y/\Delta Y)_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1/2.4, d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $Y/\Delta Y = Y / ((r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a)$ [4c] $(Y/\Delta Y)_a = Y_a / ((r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a)$ [4d] $(Y/\Delta Y) / (Y/\Delta Y)_a = (Y/Y_a)^{1-d}$ [4e] $\log((Y/\Delta Y) / (Y/\Delta Y)_a) = (n) \log(Y/Y_a)$ [4f]	$(Y/\Delta Y) / (Y/\Delta Y)_a$ TUBsRGB-Y contrast normalized to $(Y/\Delta Y)_a$ $L^*/L^*_a(0)^{1-d} \cdot (Y_a/100, Y_a/18, s=100, n=1, \ln(10), d=0)$ [1a] $L^*/L^*_a(0)^{1-d} \cdot (r+s \cdot (Y_a/Y_a)^2)^{1-d}$ [1b] $Y/\Delta Y = Y / ((r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a)$ [4c] $(Y/\Delta Y)_a = Y_a / ((r+s \cdot (Y_a/Y_a)^2)^{1-d} \cdot Y_a)$ [4d] $(Y/\Delta Y) / (Y/\Delta Y)_a = (Y/Y_a)^{1-d}$ [4e] $\log((Y/\Delta Y) / (Y/\Delta Y)_a) = (n) \log(Y/Y_a)$ [4f]
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