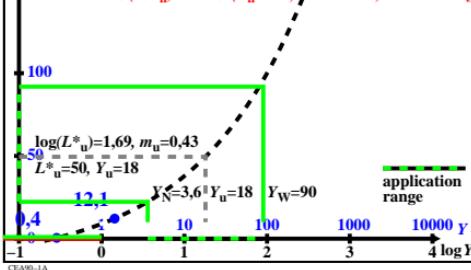


L* CIELAB lightness

$$L^* = 116 \left(\frac{Y}{Y_u} \right)^{1/3} - 16 \quad (Y_u=100, 1 \leq Y \leq 100)$$



[1a]

CIELAB lightness

$$L^* \text{ normalized to the background lightness } L^*_u$$

$$L^* = 116 \left(\frac{Y}{Y_u} \right)^{1/3} - 16 \quad (Y_u=100, 1 \leq Y \leq 100)$$

[1b]

$$L^*/L^*_u$$

$$L^*/L^*_u$$

$$3$$

$$\log[(L^*/L^*_u)] = 0, m_u = 0.43$$

$$L^*_u = 50, Y_u = 18$$

$$Y_N = 3.6, Y_u = 18$$

$$Y_W = 90$$

$$10000$$

$$Y$$

$$10000$$

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