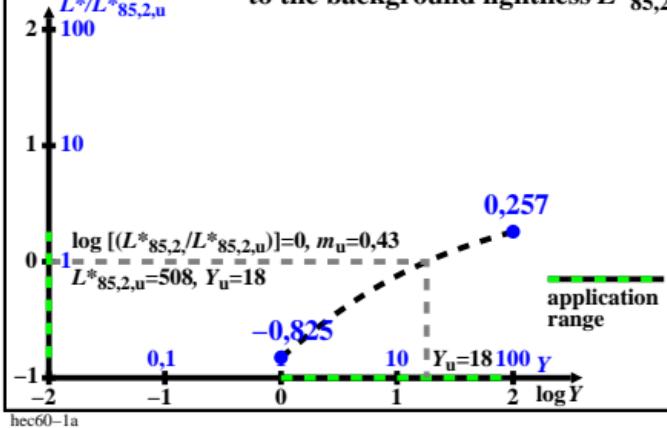


$\log(L^*_{85,2}/L^*_{85,2,u})$ LABJND lightness $L^*_{85,2}$ normalized to the background lightness $L^*_{85,2,u}$



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

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

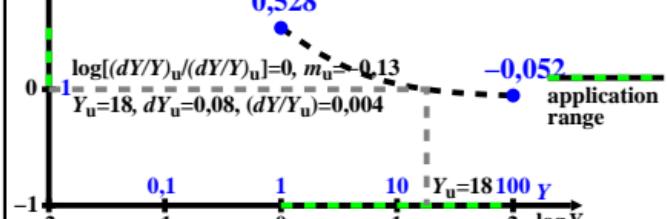
$$100 L^*_{85,2} = (t/a) \ln(1 + a \cdot Y)$$

$$a = 0.3411 \quad t = 88.23 \quad t/a = 258.6$$

tristimulus value Y sensitivity

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

$$0.528$$



hec60-3a

hec60-3n

$\log(\Delta Y/\Delta Y_u)$ CIE tristimulus value difference ΔY normalized to ΔY_u

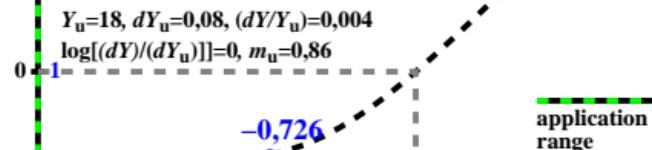
$$\frac{\Delta Y}{\Delta Y_u} = (t/a) \ln(1 + a \cdot Y)$$

$$a = 0.3411 \quad t = 88.23 \quad t/a = 258.6 \quad b = 6.141$$

normalized tristimulus value Y difference

$$dY/dY_u = (1 + a \cdot Y) / (1 + a \cdot Y_u)$$

$$0.691$$



$\log[(Y/\Delta Y) / (\Delta Y/Y_u)]$ CIE Y-based contrast normalized to $Y_u/\Delta Y_u$

$$C_r/C_{ru} = (Y/\Delta Y) / (\Delta Y/Y_u)$$

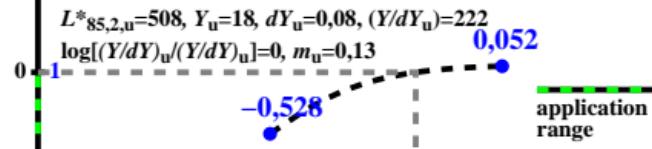
$$100 L^*_{85,2} = (t/a) \ln(1 + a \cdot Y)$$

$$a = 0.3411 \quad t = 88.23 \quad t/a = 258.6$$

tristimulus value Y contrast

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

$$0.052$$



hec60-4a