

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

$$2 \quad 100L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=22, s=134,6, n=0,31, d=34,6) [1a]$$

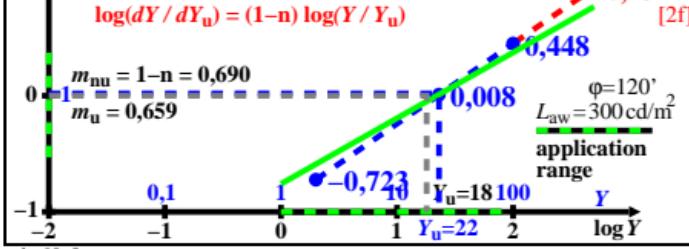
$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r-d = 44,4) [1b]$$

$$dY = [Y_n / (n s)] (Y_u / Y_n)^{1-n} \quad [2c]$$

$$dY_u = [Y_n / (n s)] (Y_u / Y_n)^{1-n} = 1,4083 \quad [2d]$$

$$dY/Y_u = (Y/Y_u)^{1-n} \quad [2e]$$

$$\log(dY/dY_u) = (1-n) \log(Y/Y_u) \quad [2f]$$



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$$2 \quad 100L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=19, s=134,6, n=0,31, d=30,7) [1a]$$

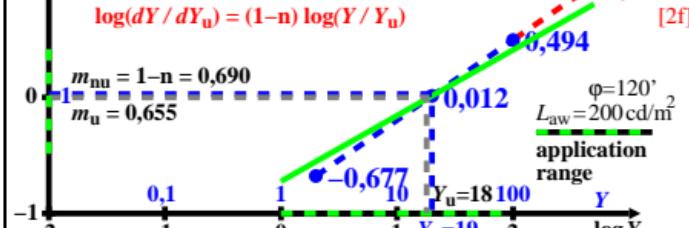
$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r-d = 48,3) [1b]$$

$$dY = [Y_n / (n s)] (Y_u / Y_n)^{1-n} \quad [2c]$$

$$dY_u = [Y_n / (n s)] (Y_u / Y_n)^{1-n} = 1,4083 \quad [2d]$$

$$dY/Y_u = (Y/Y_u)^{1-n} \quad [2e]$$

$$\log(dY/dY_u) = (1-n) \log(Y/Y_u) \quad [2f]$$



het90-7a
het90-7n

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$$2 \quad 100L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=37, s=134,6, n=0,31, d=49,5) [1a]$$

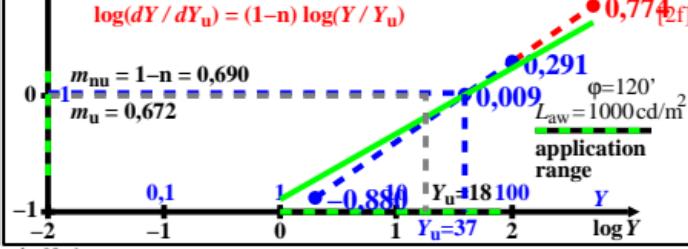
$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r-d = 29,5) [1b]$$

$$dY = [Y_n / (n s)] (Y_u / Y_n)^{1-n} \quad [2c]$$

$$dY_u = [Y_n / (n s)] (Y_u / Y_n)^{1-n} = 1,4083 \quad [2d]$$

$$dY/Y_u = (Y/Y_u)^{1-n} \quad [2e]$$

$$\log(dY/dY_u) = (1-n) \log(Y/Y_u) \quad [2f]$$



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$$2 \quad 100L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=11, s=134,6, n=0,31, d=19,2) [1a]$$

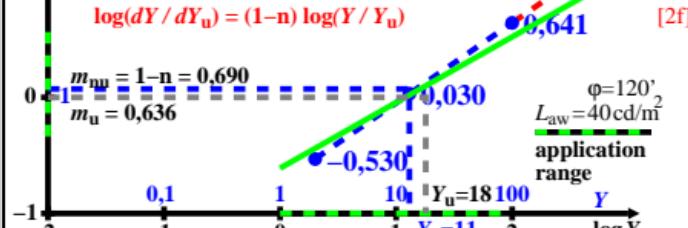
$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r-d = 59,8) [1b]$$

$$dY = [Y_n / (n s)] (Y_u / Y_n)^{1-n} \quad [2c]$$

$$dY_u = [Y_n / (n s)] (Y_u / Y_n)^{1-n} = 1,4083 \quad [2d]$$

$$dY/Y_u = (Y/Y_u)^{1-n} \quad [2e]$$

$$\log(dY/dY_u) = (1-n) \log(Y/Y_u) \quad [2f]$$



het90-8a
het90-8n