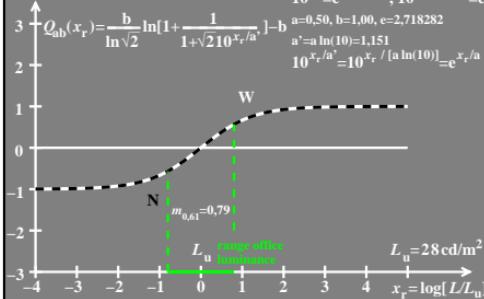


$Q_{ab}(x_r) = \text{similar tanh}$

$$10^{x_r} = e^{\ln(10)x_r}, 10^{x_r/\ln(10)} = e^{x_r}$$



DEG51-1A

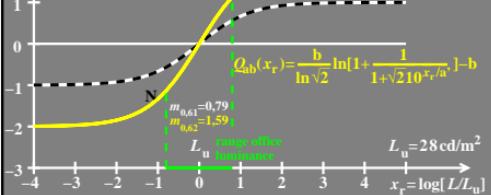
$Q_{ab}(x_r) = \text{similar tanh \& modified}$

$$Q_{ab}(x_r) = \frac{b}{\ln\sqrt{2}} \ln[1 + \frac{1}{1 + \sqrt{2}10^{x_r/a}}] - b \quad a=0.50, b=1.00, e=2.718282$$

$$a'=a \ln(10)=1.151 \quad a=0.50, b=0.615$$

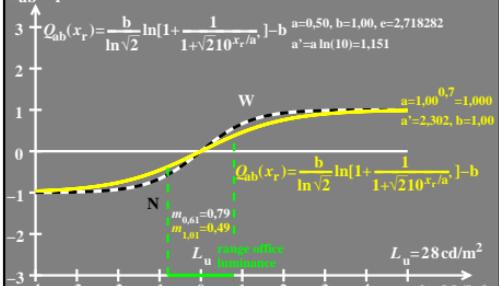
$$a=1.417, b=0.200 \quad a=0.50, b=0.615$$

$$a=1.417, b=0.200 \quad a=0.50, b=0.615$$



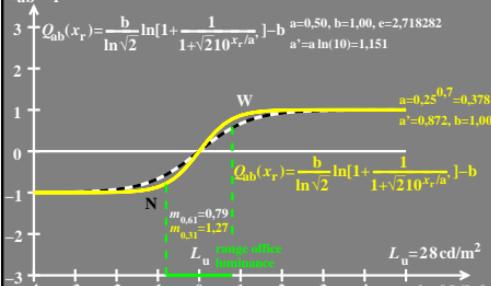
DEG51-2A

$Q_{ab}(x_r) = \text{similar tanh \& modified}$



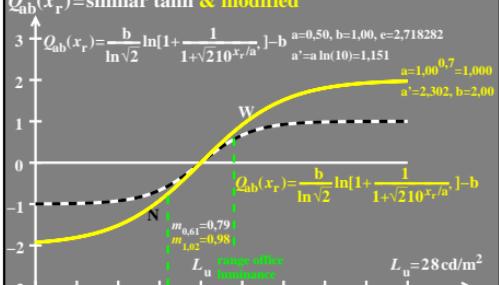
DEG51-3A

$Q_{ab}(x_r) = \text{similar tanh \& modified}$



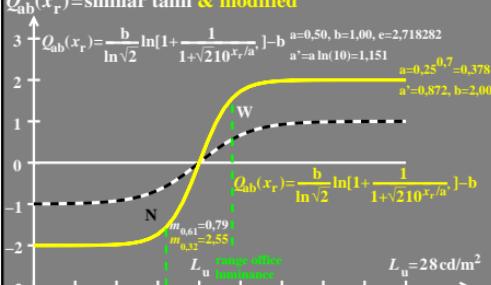
DEG51-4A

$Q_{ab}(x_r) = \text{similar tanh \& modified}$



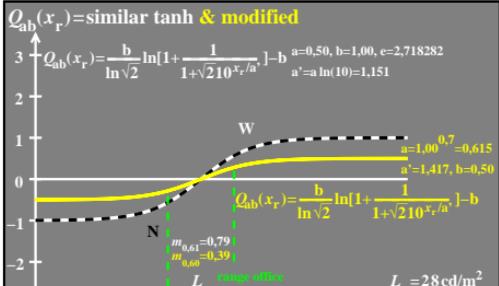
DEG51-5A

$Q_{ab}(x_r) = \text{similar tanh \& modified}$



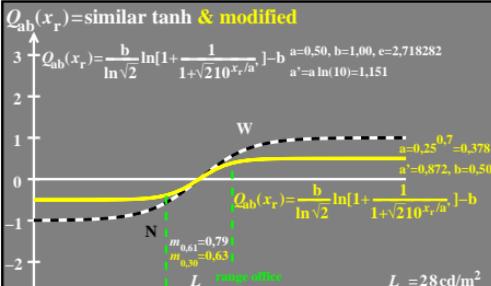
DEG51-6A

$Q_{ab}(x_r) = \text{similar tanh \& modified}$



DEG51-7A

$Q_{ab}(x_r) = \text{similar tanh \& modified}$



DEG51-8A

DEG51-7N