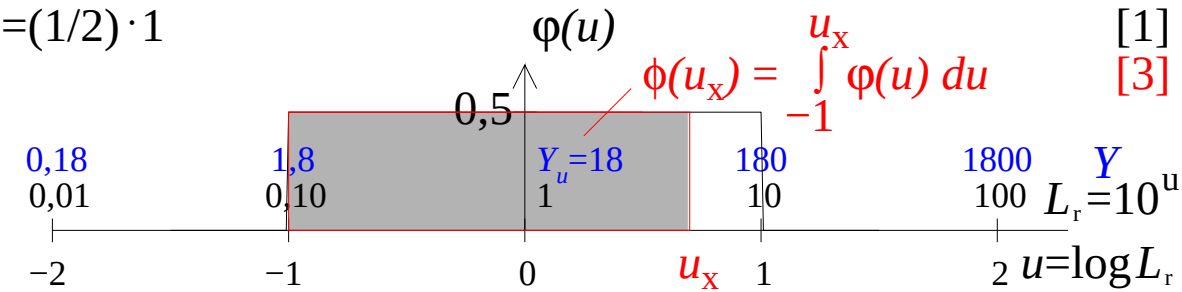
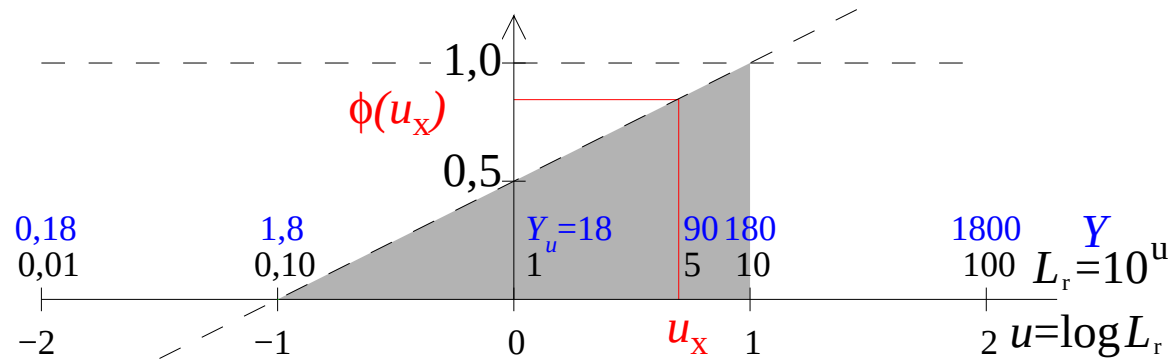
Density and distribution function for luminance and lightness

Density function $\varphi(u)$

$\varphi(u)=(1/2)\cdot 1$ [1]



Distribution function $\phi(u)$

$\phi(u)=(1/2)\cdot(1+u)$ [2]