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In a photoelectric effect experiment, a metal electrode in an evacuated tube is illuminated with a monochromatic lamp that produces light of wavelength  $\lambda$ . The rate of photons incident on the metal electrode was  $n$  and stopping potential was found to be  $V_s$ .

The lamp is replaced with one that has double the intensity and produces light of wavelength  $\lambda$ .

What are the expected new rate of photons incident on metal electrode and stopping potential?

	Stopping potential	Rate of photons incident
<b>A</b>	More than $2V_s$	$n$
<b>B</b>	More than $2V_s$	$4n$
<b>C</b>	Less than $2V_s$	$n$
<b>D</b>	Less than $2V_s$	$4n$

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