

15 A lamp has a metal filament that glows when heated by an electric current.

The middle of the filament has a very high temperature. The ends of the filament are connected to the base of the lamp and are cooler.

Which statement is correct?

- A** Some thermal energy is conducted to the base of the lamp.
- B** The filament radiates energy equally at all points along its length.
- C** The lamp transfers all of the input energy as visible light.
- D** When the potential difference (p.d.) across the filament is halved, the power output is halved.