


## Energy and cost

Kable Lite uses **low voltage Halogen** lamps.


The lamp used with Kable Lite has the following characteristics:

**Ampoule Dichroïque DECOSTAR Eco 36° 35W GU5.3** EAN: 4050300516639



**5.41 €**  
**EN STOCK**  
**Prix dégressifs**

**Acheter**  
**Voir le Produit**

Technologie	halogene eco	Conso	Equiv
Culot	GU5.3	35 W	50 W
Forme	reflecteur	2200cd 36°	
Duree	2000 h	jusqu'à 30% éco	
Lumiere	Blanc Chaud		
Couleur	828 		
Angle	36 °		



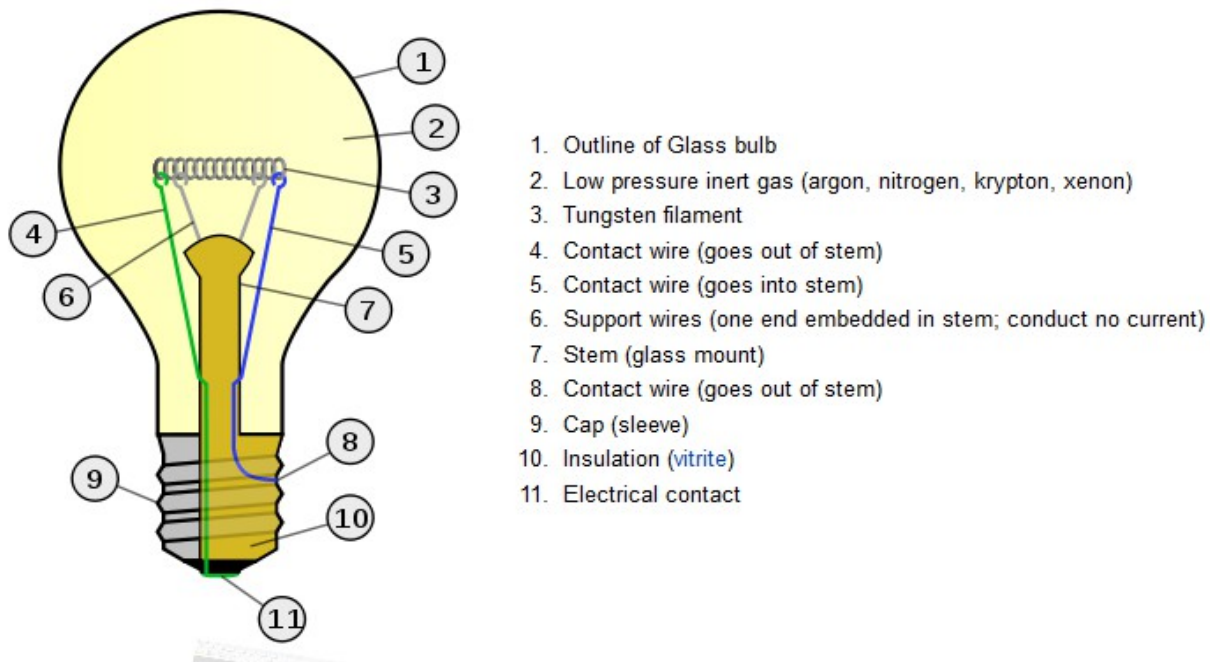
We admit an average of 3 hours lighting per day, how long will last a bulb.

How many lamps for a 10 000h duration?

The price of electricity is about 0.1€/kWh (VAT included).  
 How does the energy cost? (same duration)

Total cost:

Here is a 50W krypton bulb with the same luminous power



1. Outline of Glass bulb
2. Low pressure inert gas (argon, nitrogen, krypton, xenon)
3. Tungsten filament
4. Contact wire (goes out of stem)
5. Contact wire (goes into stem)
6. Support wires (one end embedded in stem; conduct no current)
7. Stem (glass mount)
8. Contact wire (goes out of stem)
9. Cap (sleeve)
10. Insulation (vitrite)
11. Electrical contact

Which element of the bulb is

- transparent
- translucent
- producing light?

Which lamp

- uses reflection to narrow its beam
- match visible spectrum

Why is this old type of bulb less efficient than low voltage halogen lamps?

The base is not a bayonet one, propose a name for it.

The price is about 1€ and the lamp last 1000 hours. Please compute again the total cost for  $10^4$  hours.