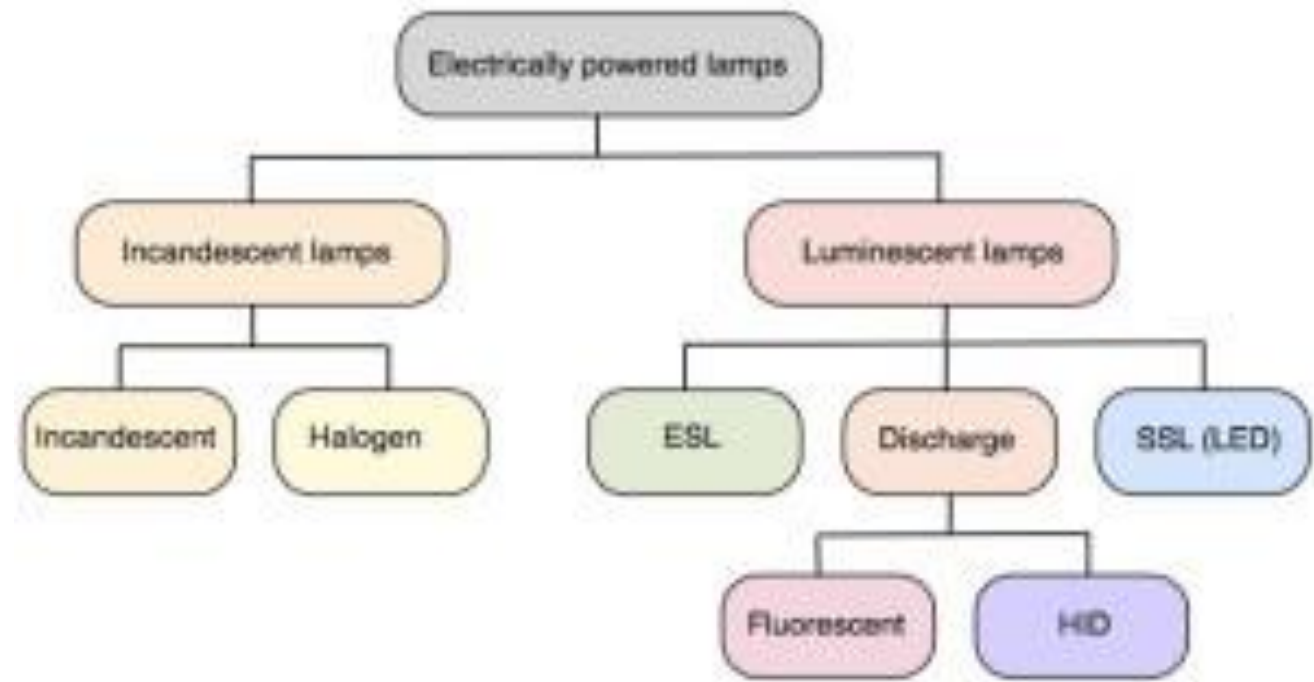
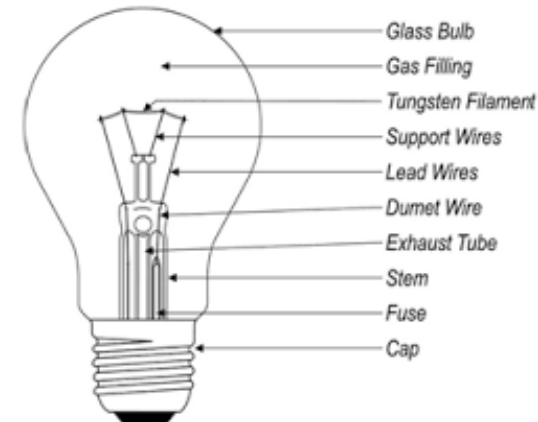
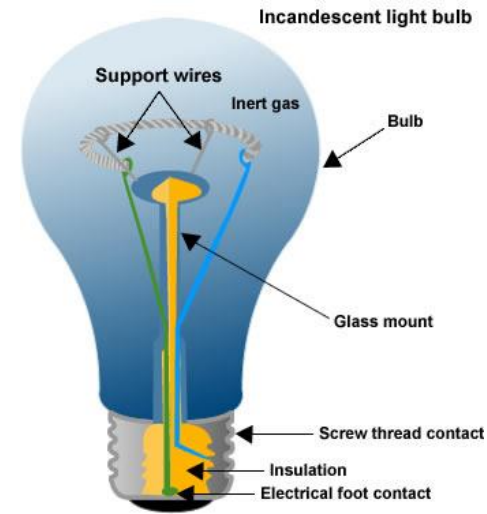
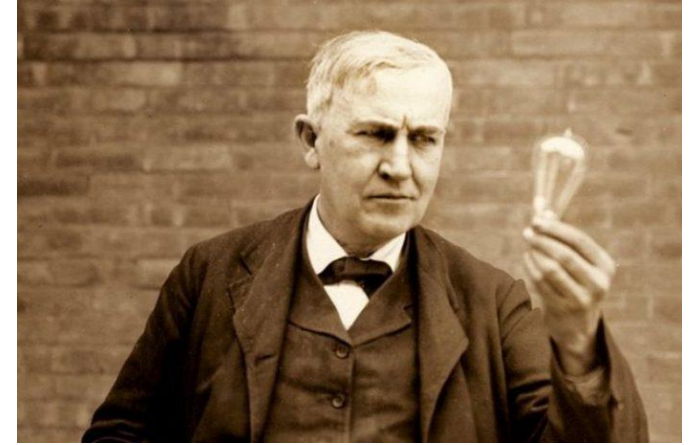
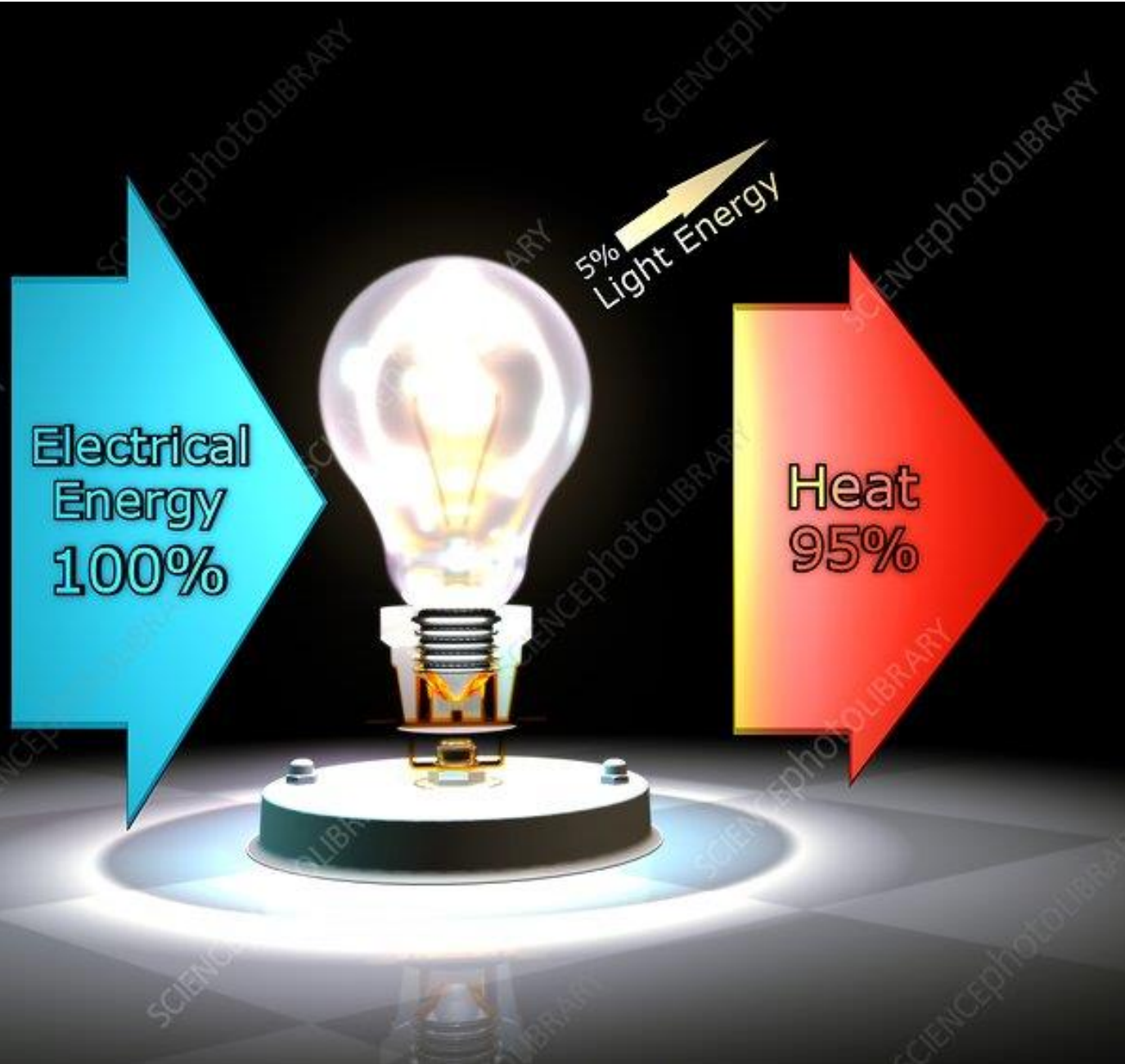


JENIS-JENIS LAMPU

1. INCANDESCENT LAMP
2. FLUOROSCENT LAMP
3. LED



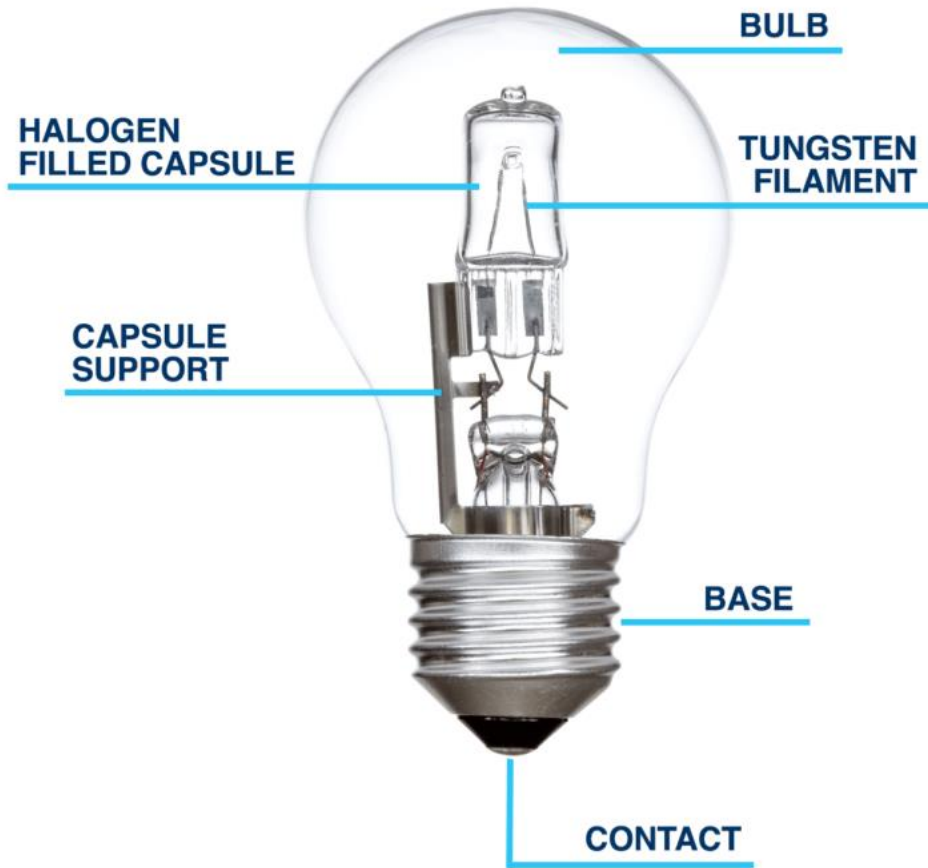
INCANDESCENT LAMP (Lampu Pijar)



Incandescence →
Pancaran cahaya dari benda yang panar/ terbakar: lilin, besi yang meleleh, obor, kayu bakar, filamen pada lampu



INCANDESCENT LAMP → Halogen lamp



Arthur Neslen

Thu 23 Aug 2018 06.00
BST



Europe to ban halogen lightbulbs

After nearly 60 years of lighting homes halogens will be replaced with more energy efficient LEDs



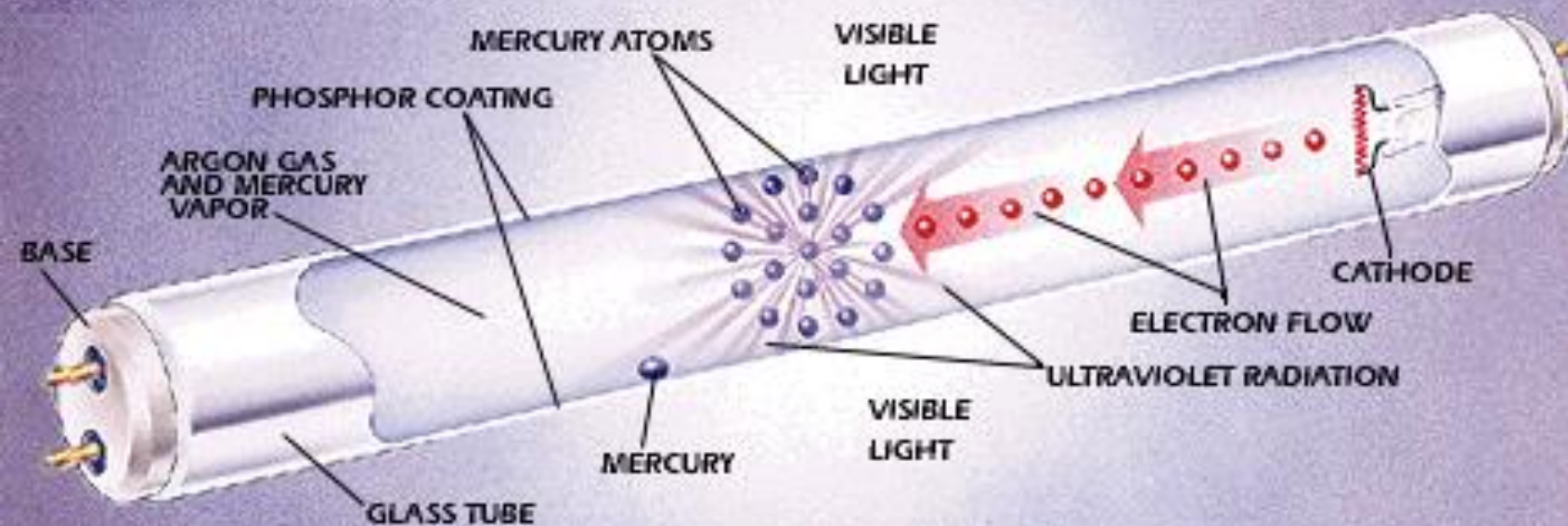
	WATTAGE	COST	LIFETIME (HOURS)
Incandescent Bulbs	60W	£0.98	1,000
Halogen	42W	£1.05	2,000

FLUOROSCENT LAMP

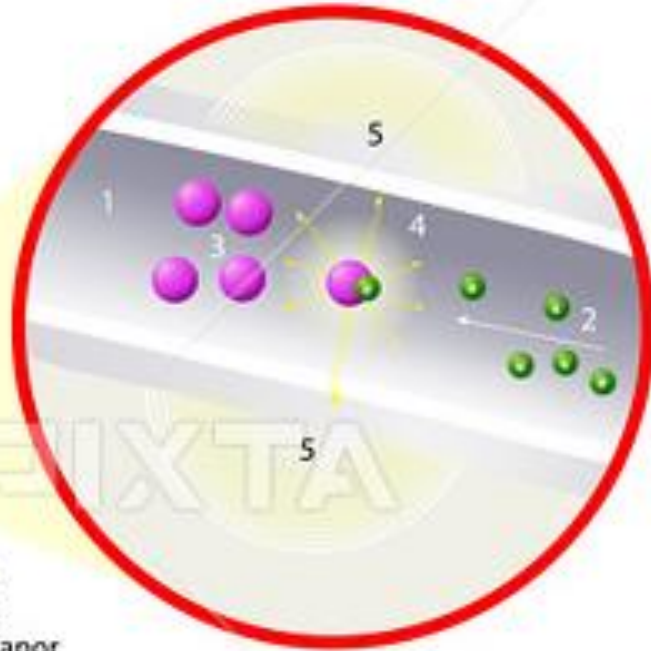


Luminescence → Pancaran cahaya dari material tertentu yang bereaksi secara kimia atau elektrik yang relatif lebih dingin | Cahaya bukan dari panas

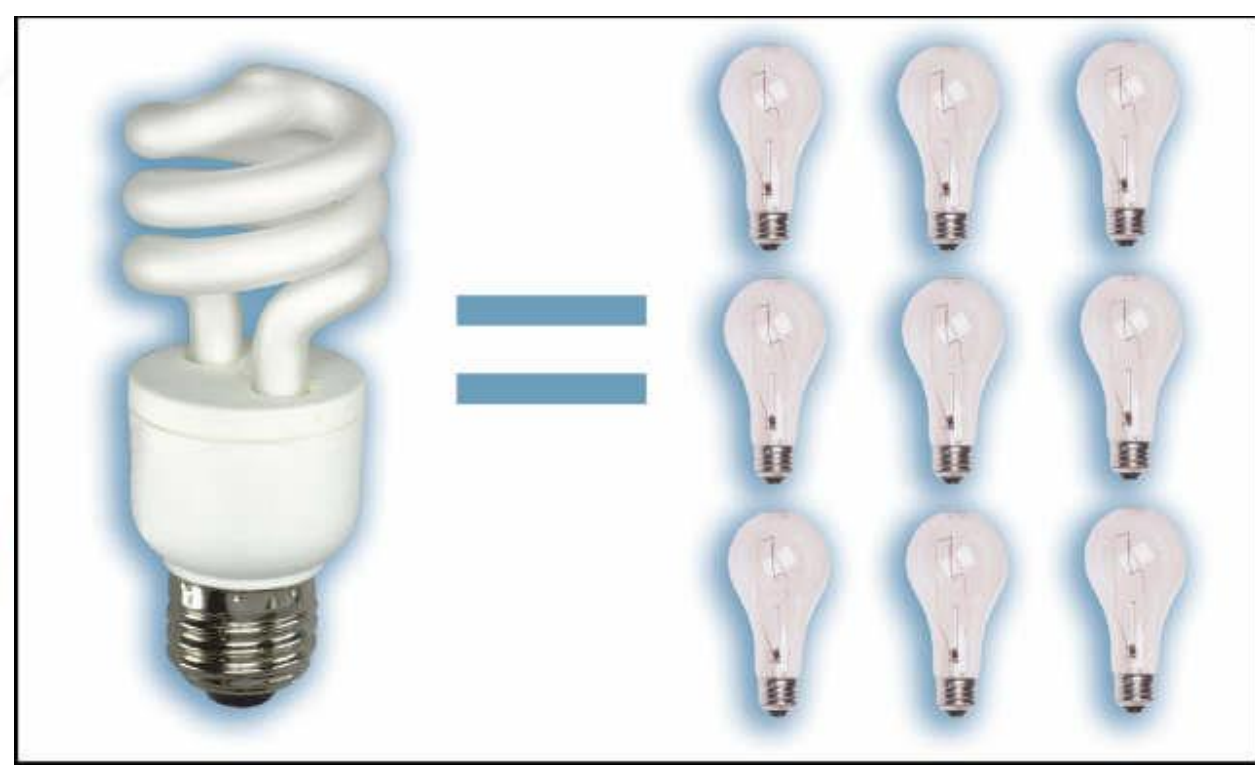
FLOURESCENT TUBE



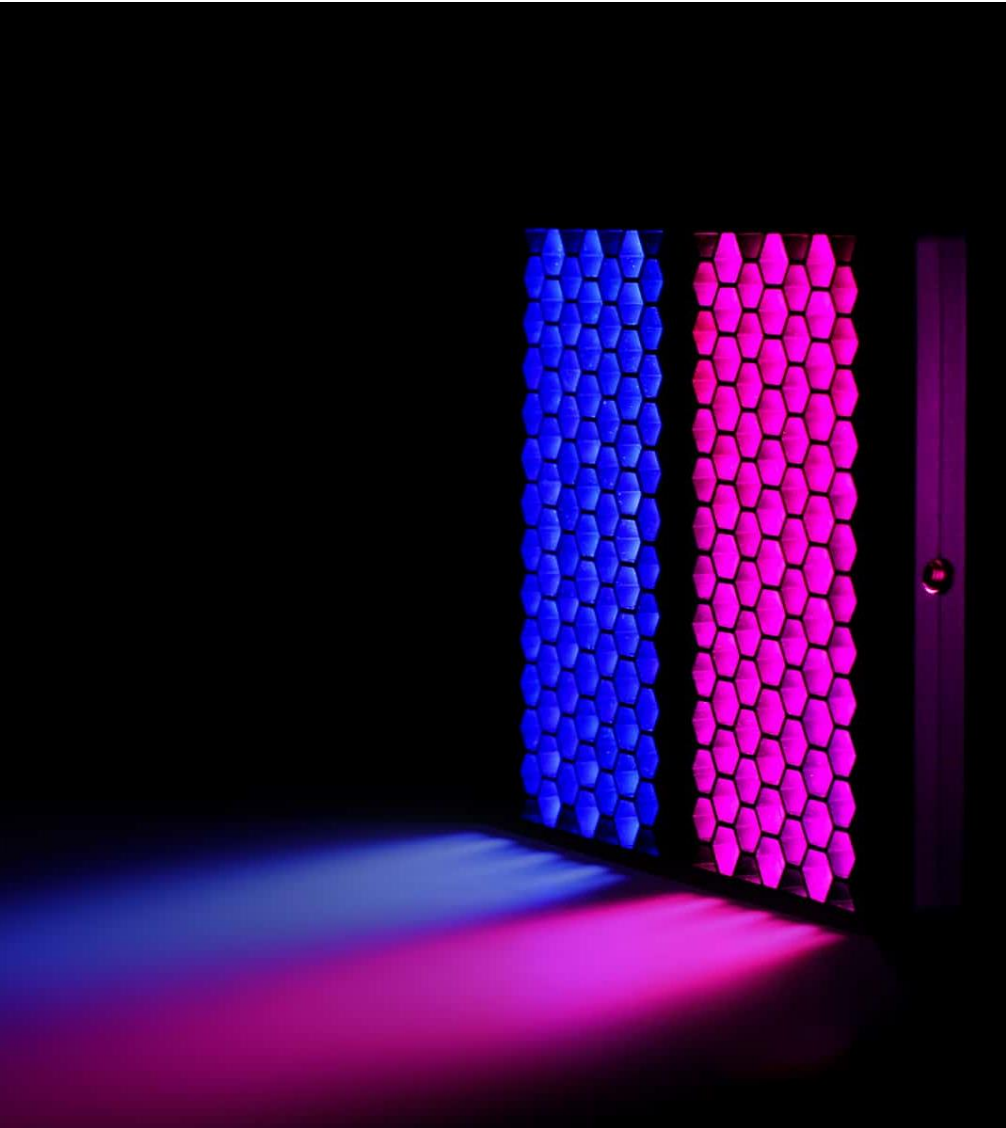
COMPACT FLUORESCENT LAMP



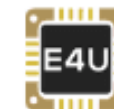
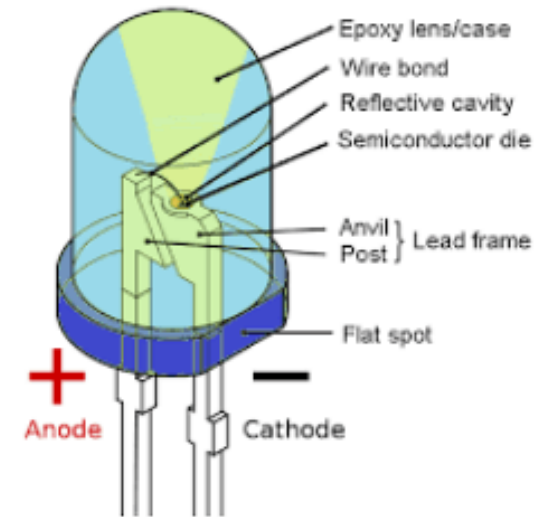
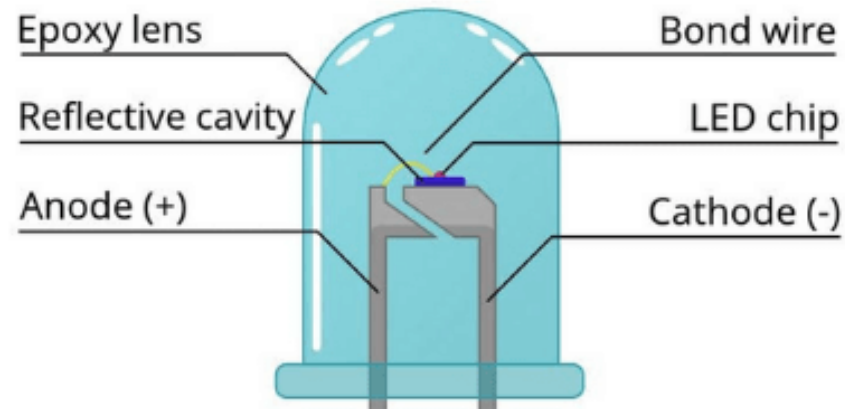
1. Phosphor coated
2. Electron flow
3. Mercury atoms
4. Generated invisible ultraviolet light that excites a fluorescent coating
5. Emits visible light



LIGHT EMITTING DIODE (LED)



How Does an LED Work?



LIGHT EMITTING DIODE (LED)



PERBANDINGAN PENGGUNAAN ENERGI LAMPU



Common 60W Incandescent Bulb

uses 60W per bulb for 800 lumens

1 bulb lasts 1,200 hrs

20 years = 21 bulbs



Common 14W CFL Bulb

uses 14W per bulb for 800 lumens

1 bulb lasts 10,000 hrs

20 years = 3 CFL bulbs



Philips 12.5W AmbientLED Bulb

uses 12.5W per bulb for 800 lumens

1 bulb lasts 25,000 hrs

20 years = 1 LED bulb

YOU USED TO BUY

CONSIDER

← LEAST EFFICIENT

→ MOST EFFICIENT

	Incandescent	Halogen	CFL	LED
450 lumens	40W	29W	9W	7W
800 lumens	60W	43W	14W	10W
1,100 lumens	75W	53W	19W	17W
1,600 lumens	100W	72W	23W	20W

Sumber bacaan tentang pencahayaan buatan:

<https://www.standardpro.com/3-basic-types-of-lighting/>

<https://richporterlighting.com/en/blog-what-are-the-different-types-of-lighting/>

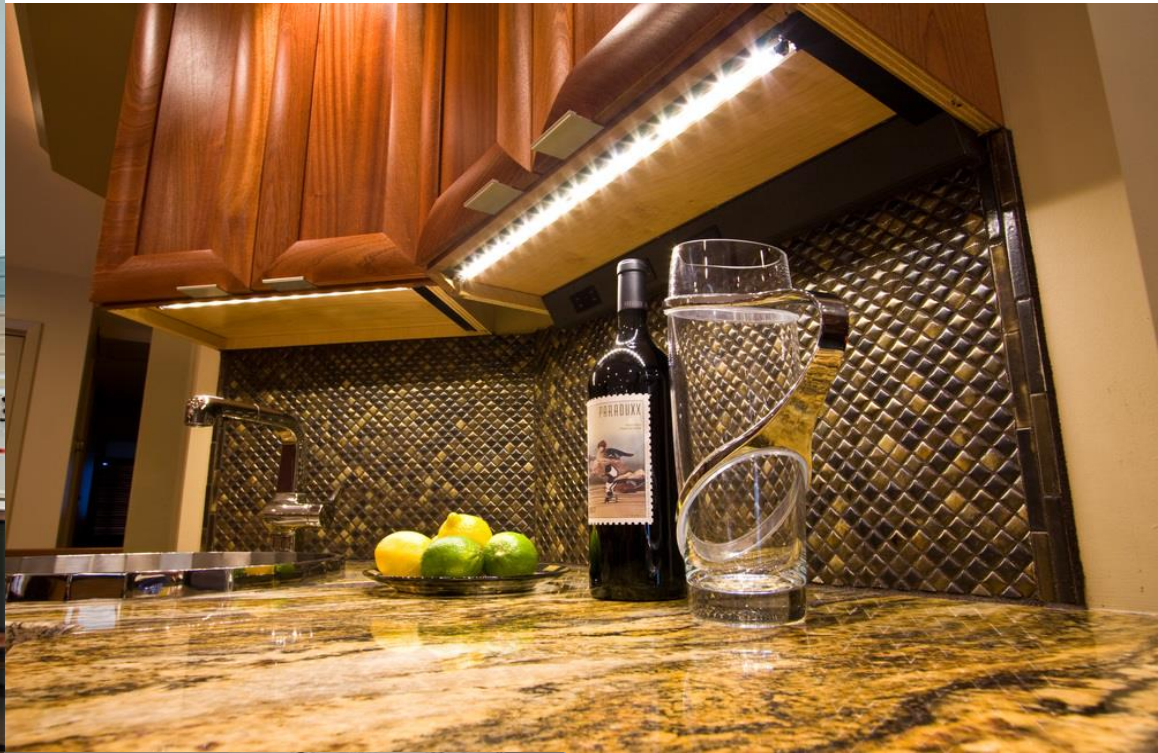




**AMBIENT
LIGHTING**



**TASK
LIGHTING**



ACCENT
LIGHTING





**DECORATIVE
LIGHTING**

