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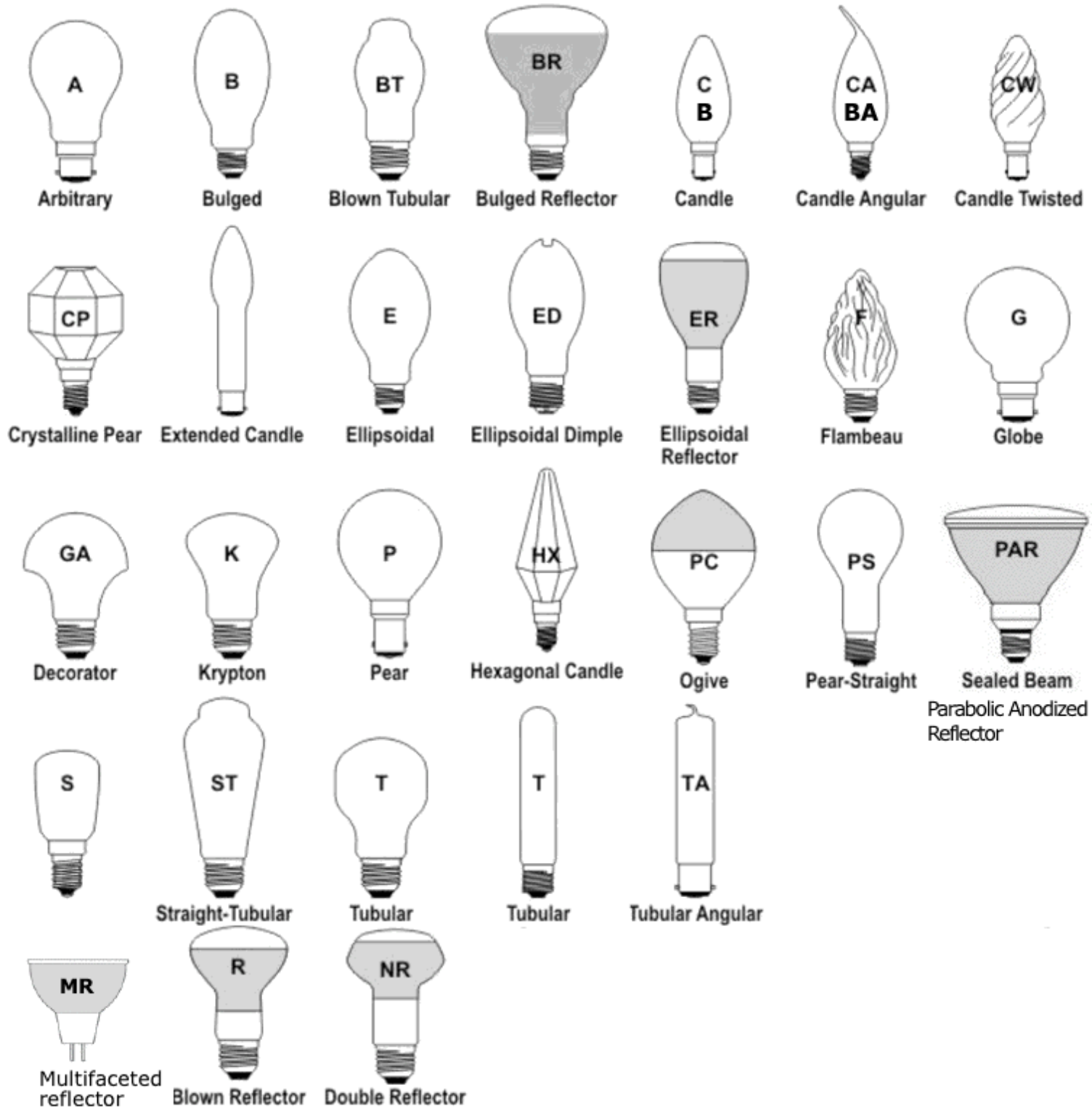
[Light bulbs](#) | [light bulb shape & socket/base types](#) | [LED Lights](#) | [CFLs](#)

Under Construction



Lighting lamps and light bulbs are described by a shape, diameter, length and screw type designation. This normally is in the form of letter(s) followed by a number followed by an optional letter.

A standard 60-100 watt household bulb is an **A19** A = Arbitrary Shape (see below); 19 = 19/8th in. [2 3/8 inch] in diameter [A metric A60 (60 mm in diameter) is the equivalent], with an E26 screw base.

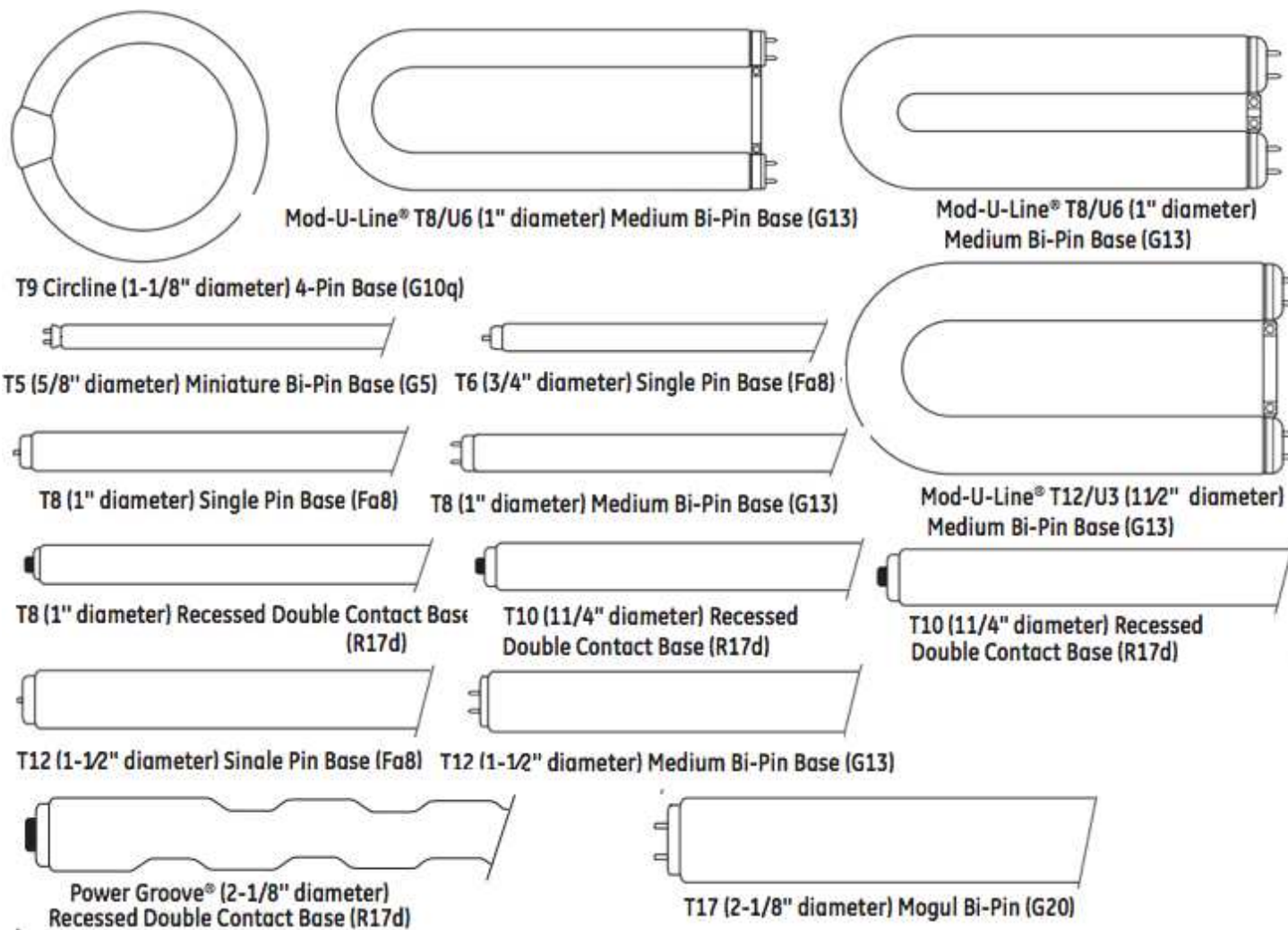


Source: [EagleLight](#)

[LED Lights](#)

Fluorescent tube bulbs

Circular fluorescent light bulbs differ in many ways and sometimes come with manufacture-only specifics. Bulbs range from 5"-12" in diameter.



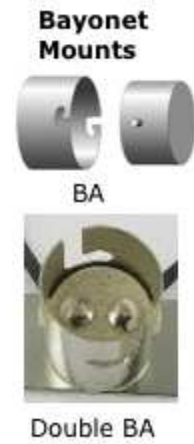
Source: GELighting.com

Sockets and base type:

'Exx', 'E' stands for 'Edison' and 'xx' refers to the diameter in millimeters as measured across the peaks of the thread on the base (male)

E10, E11, E12, E14, E17, **E26 (Standard Bulb)**, E27, E36, E39, BA15, SC, GU10, GU24, G4, G5.3, GY6.35, GU8 GY8, G9, G12

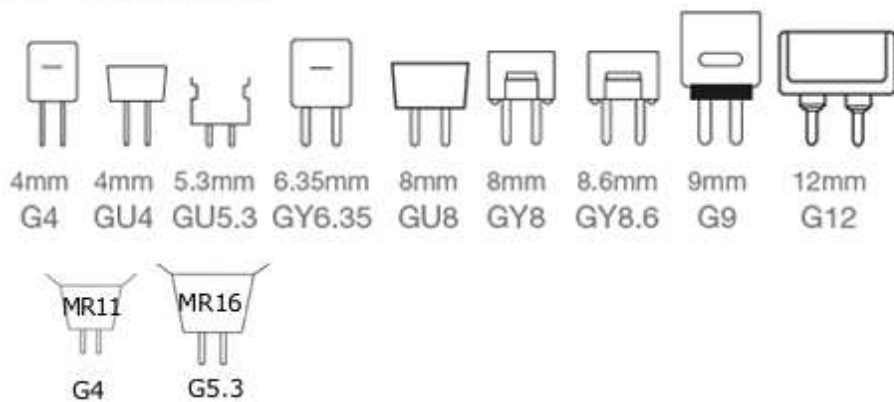
SCREW BASES E - Edison screw light base



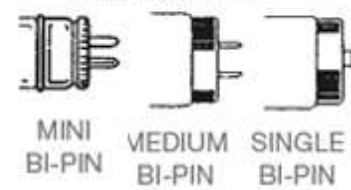
BAYONET



BI PIN BASES



FLUORESCENT PIN BASES



LED light bulb sockets and bases are manufactured to the same standards as halogen, incandescent and other traditional lights.

- Edison Screw-in (ES)
- Candelabra: E12 (diameter of 12 mm) [0.47"]
- Intermediate: E17 (diameter of 17 mm) [0.67"]
- Medium or Standard: E26 (diameter of 26 mm [1.02"]
- Mogul: E39 (diameter of 39 mm) [1.54"]

More at Galan.com

[EnergyStar categorizes bulbs as:](#)

- Omnidirectional: A, BT, P, PS, S and T
- Decorative: B, BA, C, CA, DC, F, G
- Directional: R, BR, ER, MR and PAR

See:

[LED Light Bulb Base Types | EagleLight.com](#)

and [LED Light Bulb Base Types | gallan.cc](#)



| | | | | |
|--------------|-------|-------|-------|-------|
| Size | A-15 | A-19 | A-21 | A-23 |
| Diameter in. | 1 7/8 | 2 3/8 | 2 5/8 | 2 7/8 |



| | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | PAR-16 | PAR-20 | PAR-20 | PAR-30 | PAR-36 | PAR-38 | PAR-46 | PAR-56 | PAR-64 |
| Diameter in. | 2 | 2 1/2 | 2 1/2 | 3 3/4 | 4 1/2 | 4 3/4 | 5 3/4 | 7 | 8 |

Source: [EagleLight](#)



PAR BR30 (Bulged Reflector) LED

BR (for bulged reflector) bulbs are lamps with "wide flood" beam angles, which means that they provide more than a 45 degree angle when lighting an area.



[Multi Faceted Reflector \(MR\) Halogen and LED](#)

Beam Angle (spot/flood)

| Code | Typical MR16 | Typical PAR | Description |
|------|---------------|-----------------|------------------|
| VNSP | <7 degree | s<15 degrees | Very narrow spot |
| NSP | 5-15 degrees | 15-30 degrees | Narrow spot |
| SP | 16-22 degrees | 30-60 degrees | Spot |
| NFL | 23-32 degrees | 60-90 degrees | Narrow flood |
| FL | 32-45 degrees | 90-120 degrees | Flood |
| WFL | 45-60 degrees | 120-160 degrees | Wide flood |
| VWFL | 60+ degrees | >160 degrees | Very wide flood |

Source: [LED Beam Angle | WhichLedLight.com](#)



Candelabra bulbs are sometimes listed as B and BA and C. Bases are typically E12.

Terms:

ACEC - Advisory Committee on Electromagnetic Compatibility (part of IEC)

ES - Edison Screw

IEC - International Electrotechnical Commission (or CEI in French) - Sets standards

MES - Medium Edison Screw

Links:

[Edison screw - Wikipedia](#)

[LED Light Bulb Shapes and Sizes](#)

[Lightopedia.com - Lamp size reference](#)

[Light Bulb Shapes and Sizes | LED Lamps Education | LED Lighting](#)

[Light Bulbs | Incandescent Shapes | BulbAmerica.com](#)

[LED Lighting | BulbAmerica.com](#)

[Halogen Lamps - MR11 and MR16 - Focused Ellipsoidal Dichroic Reflectors | ILT](#)

[S-6 Shape Bulb Identification - YouTube](#)

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