

## Incandescent/Halogen, bulbs, spots, and floods

As you are walking a job, and seeing thousands of light bulbs, there are several important details to identify what a light bulb is, and what to spec as a replacement. First there are two main types of track lighting—regular floods, and mr16’s. The mr16’s are halogen based, and typically come in 30, 40, and 50 watt varieties. They can be “spots”, with 15-30 degree beam angles, or “floods”, with 45 degree beam angles. They can have warm, yellow light (2300 kelvin color temperature), white light (4100 kelvin color temperature), or be “daylight” (5000 kelvin – 5800 kelvin color temperature). A restaurant would use 2300k, while a jewelry store would use 5000k.



These are Halogen mr16’s. The only replacement is an LED, but the good ones are expensive, so they only make sense in high-operation hour situations.

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**LumiSELECT™**  
Linear Dimmable LED

MR-16



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Linear Dimmable LED

MR-16 PRO



These are the LED mr16’s that we use. A 3w replaces a 30w halogen, a 5w replaces a 40w, and the 6.5 and 10w’s replace a 50w halogen. We can get any color, any beam angle, and they are all dimmable.

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**A-Bulbs:** These are your regular light bulbs. 60w-150w, dimmable, sometimes 3-way, usually 2300 kelvin. Cfl's are the regular curly-q shapes, or they come in all these types such as vanity light globes, and pars (spots and floods).



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PowerGlobe



This incandescent bulb is going the way of the dinosaur. CFL A-bulbs come as regular spirals, or globes for vanity lights. To the left is our gorgeous dimmable LED A-bulb. The non-dimmable LED is less expensive.



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PAR16



**Par16's.** The "par" means spot or flood, and the number after it is the diameter of the bulb in 1/8's of an inch (par16 is 16 divided by 8 = 2 inches in diameter). These are A-bulb size spots and Floods. Again, this is our dimmable LED version. All of the LED options come in dimmable or non-dimmable. We can get a cfl in all these configurations.

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PAR20



Par20's are the usual spot and flood size (2.5" bulb). They can be incandescent or halogen. Halogen has a better light than an incandescent, so sometimes a facility director will pay more to get LED replacements over the much cheaper (up-front) cfl replacements. The benefits of LED over CFL are longevity—LED's last 10 times longer, LED's have no-mercury, LED's have better energy savings, and LED's have better light, like halogens.

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PAR30



Par30's are another common size (3.75" bulb). The details are the same as the par20's.

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PAR38



**Par 38's** (4.75") are more rare and expensive, and you'll often find par38 size cans with par30's in them.

### Bonus fixture!!:



This is a confusing bulb, because the same size can be between 150 watts and 500 watts! It's called a Quartz Halogen fixture, and we'll replace it with a 40 watt--84 watt cfl.

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