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Exterior and Gym/Warehouse Lighting— Wall Packs, Pole Mounts, and High-Bays

Exterior lighting is a tricky business and can be daunting at first. If you figure out five things: w.v.h.c.t. (wattage, voltage, height, controls, throw), you'll be confident writing up proposals that will be accurate and effective. Find out what type of light it is, wattage, voltage e.g. 120, 208, 240, 277 (some fixtures can run on any voltage, so get that information later if you're having trouble), mounting height, and control e.g. timer, photocell, dimming system, etc.

Taking pictures of the fixture and a landscape view of the parking lot is ALWAYS helpful. Florescent strip lights can throw light left, right, or off to both sides, so draw a picture of where the polls are and how the space needs to be lit. A light meter reading at ground level, in the dark, will go a long way to designing a replacement system that will improve the clients lighting, while saving tremendous amounts of money and electricity.

The fixtures below are organized by type—wall mount, pole mount, and high-bay. The original fixture is on the left, the replacement fixture is on the right. All choices have been selected for equal or better lumen output, and maximum energy savings.

Wall Mount Lighting



70 watt Metal Halide wall pack comes out **26 watt cfl wall pack** goes in (on right--dark sky, more expensive 'full-cutoff' style is available)

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Arizona General Contractor Dual Residence and Small Commercial

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Greater Phoenix
Chamber of
Commerce



IER INC
Inline Electrical Resources

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150 watt Metal Halide wall pack

comes out



42 watt cfl wall pack goes in



250 watt Metal Halide wall pack

comes out



84 watt cfl goes in

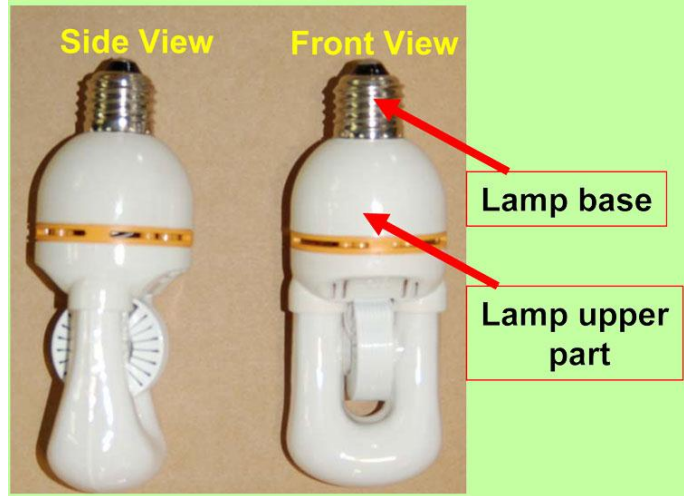
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Parking lot/Pole lighting



175 watt (215w/ballast) MH parking lot lighting comes out 80 watt Induction retro kit goes in



250 watt (295w/ballast) MH parking lot lighting comes out 117 watt 2 lamp T5 strip fixtures go in

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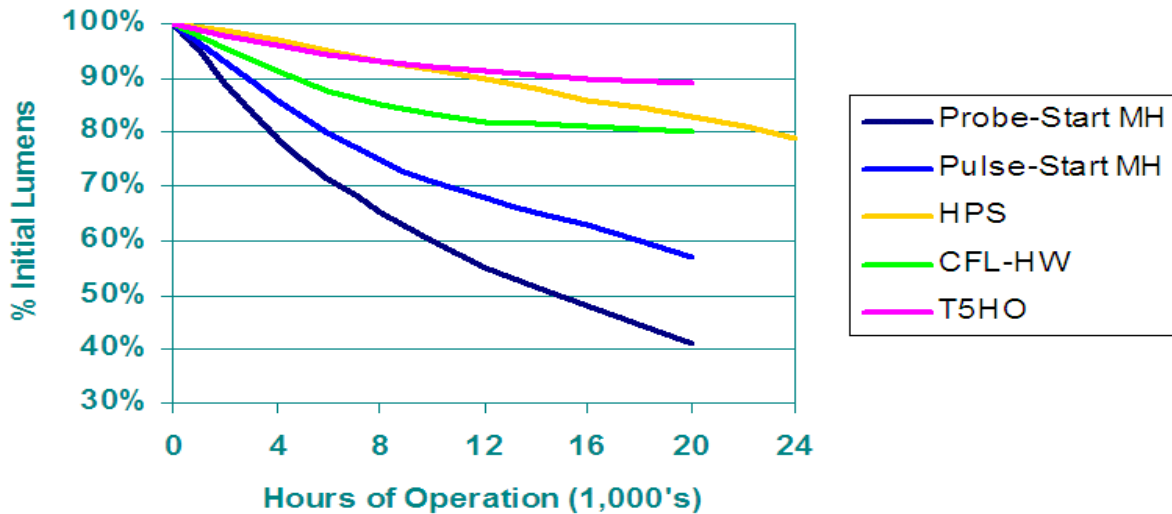


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400 watt (458w/ballast) MH parking lot lighting comes out 234 watt 4 lamp T5 strip fixtures go in



1000 w Metal Halide (1080w/ballast) comes out, 1 or two 6 lamp T5HO 351 watt fluorescent strips (1 is needed if light levels are acceptable and the fixture is more than 2 years old, 2 are needed if the fixtures are changed every year to avoid lumen depreciation). Even though Metal Halide lasts for 20,000 hours, they just keep getting dimmer and dimmer as they age—not so for new fluorescents!



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High-bay interior (gyms, warehouses)



250 watt Metal Halide (295w/ballast, or Mercury Vapor, or High Pressure Sodium) comes out 118 watt 4 lamp T8 fluorescent high-bay goes in (for added savings, put in individual motion sensors w/18 minute timers, daylight sensors, or dimmers that control ½ or the complete fixture)



400 watt Metal Halide (458w/ballast or MV, or HPS) comes out 6 lamp T8 218 watt high-bay goes in w/ or w/o occupancy sensors

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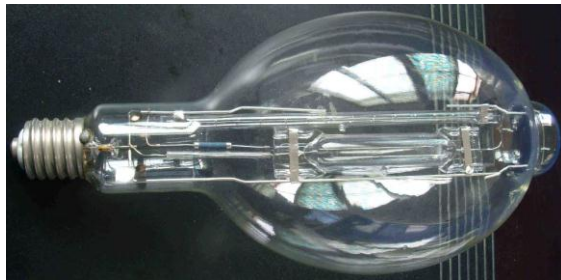
Photos of different kinds of bulbs



Metal Halide



High Pressure Sodium



Mercury Vapor

They look alike, so find a replacement in a box, and read the label!

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