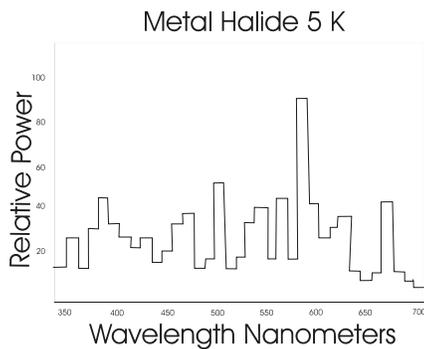
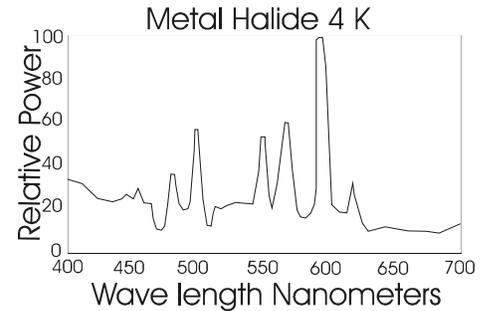
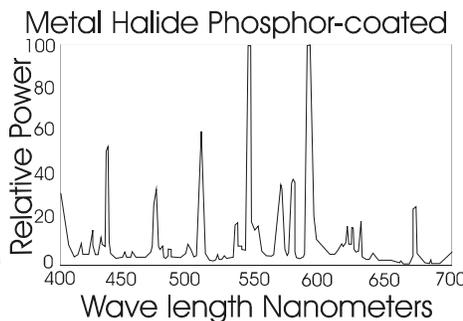
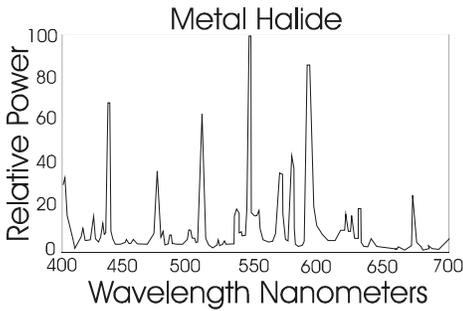


# Color Spectrum & Distance from Lamp

Metal Halide are available in a few different spectrums. Mix and match to achieve that perfect sun. Metal Halide clear lamps are the most popular. They are cheap to buy. And provide a great spectrum of light for your plants. Use during Growth cycle of your garden or use to keep your favorite plant in vegetative stage for cuttings. Use during flowering to provide the much needed Ultraviolet & Blue spectrum.

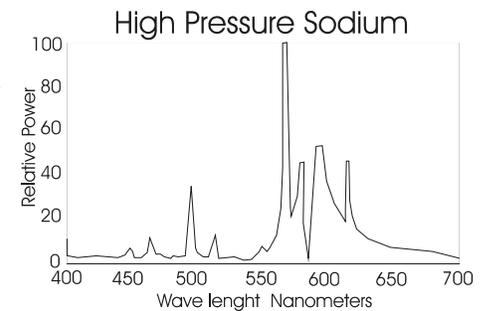
Metal Halide Phosphor-coated these lamps produce more Red light than the regular Metal Halide. By coating the inside of the M H glass bulb with phosphor we achieve a more reddish light but we give up some of the output of light approximately 8000 lumens.



Metal Halide 4 Kelvin more Red and Blue light with a greater balance of all color spectrum. Check out the plant sensitivity curve against the chart.

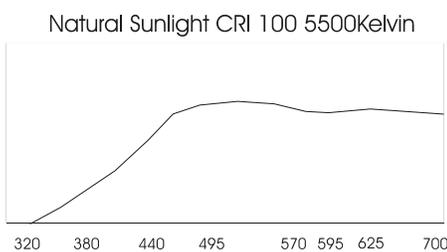
Metal Halide 5 Kelvin still more of the color spectrum that plants require. By providing the best overall light will provide the healthiest fastest growth.

High Pressure Sodium lamps are strongest in the Yellow/Orange color spectrum with a shift towards the Red



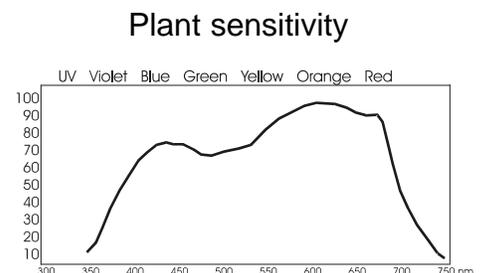
spectrum. Most gardeners use a HPS lamp only, during flowering. This increases the Red section of the spectrum stimulating flower production. Most gardens do not supplement their HPS with Metal Halide lighting and as the chart shows plants could really utilize their color spectrum.

The plant sensitivity chart shows that most of the color spectrum is not available to the plants. Remember light is like vitamins to a plant. By providing what the plant needs the plant will provide you with bigger, heavier yields. Any gardener that has used a Metal Halide in conjunction with a High Pressure Sodium during flowering will attest to the fact that the best, healthiest, vigorous plants are right in the middle of where the 2 color spectrums overlap.



Compare the chart on sunlight to the plant sensitivity chart.

Sunlight is the best source of light available. Use it to grow whenever possible. But with today's technology it is definitely possible to achieve superior crops with artificial light.



There will be no artificial taste to your garden from artificial light source.