

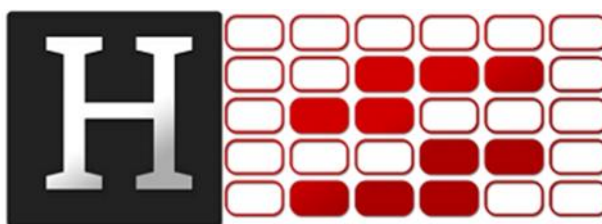
Why using the Blue & Red wavelengths in our LED Growlights

Blue Light stimulates the hormones that trigger growth and inhibit dormancy. Blue light encourages chlorophyll production more than any colour, which promotes photosynthesis, resulting in thick leaves, solid stems and strong vegetative growth. Blue light controls leaf fall and fruit ripening. It also encourages plant foliage to grow towards the light source (phototropism). Blue light also serves to keep plant growth compact and shapely by minimising the distance between internodes (branches). Blue light is most pronounced during the spring and summer months when the sun is highest in the sky.

Red Light is important for plant reproduction. It regulates seed germination, root development, tuber and bulb formation, flowering and fruit production. Red light is also responsible for triggering dormancy in some plants. The red portion of the spectrum is essential to plant growth, and encourages the flowering, fruiting and reproductive stages. Red light is prominent in the autumn and winter months when the sun is lower in the sky.



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