

End of day Far-Red (EOD FR)



Lighting strategy – Use of far-red treatment

With a far-red (FR) treatment the extension growth of a plant is promoted. In general, this gives an increase in leaf size as well as stem elongation. The enhanced leaf size in the leafy greens and the increased plant height for herbs can accelerate the production time (time to harvest). Far-red can be provided to the plants in various ways; either as constant far-red in the spectrum or as an end of day far-red treatment (EOD-FR). There can be an energy cost saving potential with both a shorter production time (compared to no FR spectrum) and to use FR only at the end of the day.

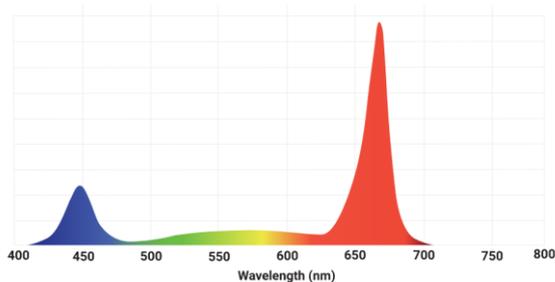
Schedule

Heliospectra Grow Light: ELIXIA C-plate (450 nm, 660 nm, 735 nm and 5700 K)

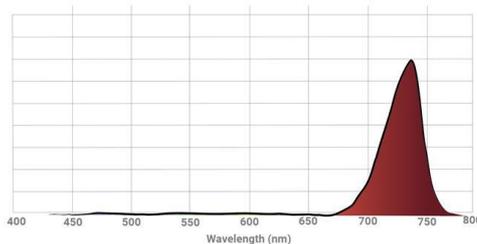
Photoperiod: 16 hours + 0.5 hour EOD FR

Description: The schedule is set for at photoperiod of 16.5 hours starting at 6:00 in the morning ending at 22:30. During the first 16 hours all channels providing light within PAR is on for full power, from now referred to as "growth light". At 22:00 the growth light is turned off and the far-red (735 nm) is on full for 30 min. At 22:30 the night period starts, and the grow light is completely turned off.

Growth Light



EOD-FR



Disclaim:

- The light intensity will need to be measured to ensure sufficient light levels are met.
- The intensity will be depended on the installation.