



INFO SHEET

LED Grow Light Fixture to Plant Canopy Guidelines



Using LED lights can require different mounting heights as compared to HID lighting. And while it's difficult to offer hard and fast rules for light mounting heights, we've come up with some general recommendations. If you're transitioning plants from legacy lighting sources to LED, you probably want to start on the high end of the scale of mounting heights listed below and gradually lower the fixture to increase intensity as your plants adapt to their new lighting source.

Here are the assumptions that we used to formulate these recommendations. We used a coverage area of 1.5'x3' for the NeoSol LS fixture and a 3'x3' coverage area for the NeoSol NS fixture. Also, we calculated our DLI with a 16 hour photoperiod and referred to this Purdue University study for some of the crop-specific DLI requirements.



INFO SHEET

Please note that these are guidelines, and the lighting needs for every growing environment vary slightly due to the balance of other parameters and resources. These dimensions should be used as a starting point so that you can then adjust to dial in the light for your specific situation.

Light Requirements for Various Plants

The following plants are typical of low, medium and high light requirements.

Light Requirement	Plant types
Low	micro-greens, ornamental house plants
Medium	herbs, leafy greens
High	peppers, tomatoes, cannabis

NeoSol LS

Number of LS fixtures and distance to canopy for low, medium, and high light plants. (Assumes a target area of 3'x3' and photoperiod of 16 hours.)

	Low	Medium	High
Number of NeoSol LS fixtures	3	4	5
Distance to Canopy	28"	24"	15"

NeoSol NS

NS fixture distance to canopy for low, medium, and high light plants. (Assumes a target area of 3'x3' and photoperiod of 16 hours.)

	Low	Medium	High
Number of fixtures	1	1	1
Distance to Canopy	44-65"	24-44"	12-24"

NeoSol LS Coverage Area

Purchasing a single [NeoSol LS](#)? Expect your NeoSol LS to cover a 3' x 1.5' area, and plan to hang your light no closer than 12" from the canopy. This setup is best for seedling propagation.