



SPECTRON
LIGHT SCIENCE

Designed to work alongside HPS lamps

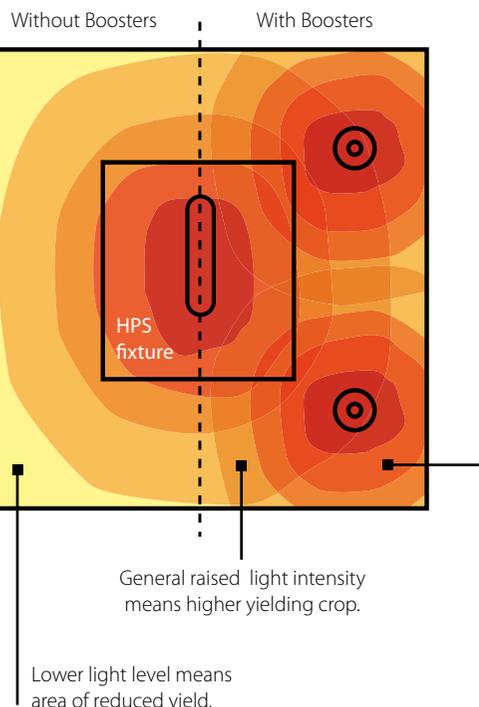
Spectron Light Science LED Boosters bridge gaps in the performance of HPS Lamps, by positioning four LED Boosters in each corner of your growtent, alongside your HPS light, you can ensure your crop receives a more even spread of light as well as a more balanced spectrum. Spectron Light Science has developed two main full spectra; one specially tailored to suit flowering crops with peak red and some far red and the other achieves optimal growth during the vegetative stage with peak blues and highlighted greens.

When used alongside HPS lights, the LED Boosters:

- Provide a more balanced spectrum, making up for a shortage of blues and greens or supplements reds and far reds in HPS (depending on your chosen LED Booster)
- Provide greater canopy penetration to achieve a more even growth
- Provide growers with light levels up to 2 μmol per Watt, among the highest μmol per Watt currently available
- Provide a more balanced light level and increased light intensity, which in turn increases photosynthesis and improves nutrient uptake
- Can provide a power saving of up to 20%; if you choose to reduce the wattage of your HPS Lamp
- Emit a low radiant heat per μmol of output
- Provide one of two specifically tailored spectra to suit flower or vegetable growth

Challenge your current supplier to prove that their products can match the performance of Spectron Light Science LED Boosters, we're confident they won't be able too!

Light map of growing area



More even light means more even growth

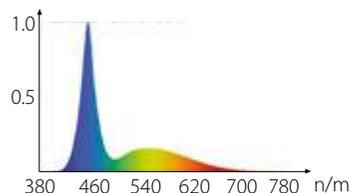


BLUVEGETATOR

- Adds vital blues and greens, which are typically short in HPS light
- More compact plants with closer internode spacing



Distance	$\mu\text{mol}/\text{m}^2/\text{s}$ (average)*
30cm	1563
60cm	472
90cm	214
120cm	123
150cm	79

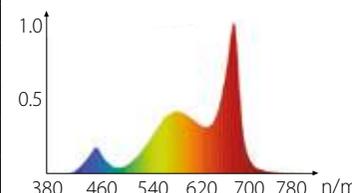


FRPENETRATOR

- Supplements far red in HPS which has been found to increase flavonoid and oil production
- Increases rate of generative growth
- Increases flowering sites

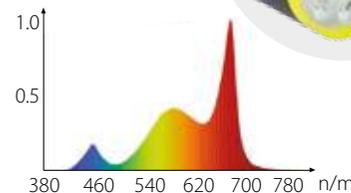
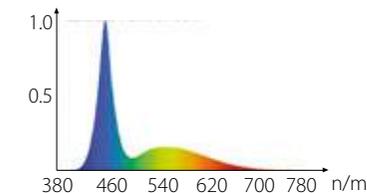


Distance	$\mu\text{mol}/\text{m}^2/\text{s}$ (average)*
30cm	1939
60cm	535
90cm	242
120cm	137
150cm	91



SMARTBOOSTER

- Two spectra in one, with wider 45° beam angle
- Easily switch between spectra depending on your crop cycle
- Benefit from all the features of the **BLUVEGETATOR** and **FRPENETRATOR**



Distance	$\mu\text{mol}/\text{m}^2/\text{s}$ (average)*
30cm	724
60cm	208
90cm	97
120cm	55
150cm	36

SMARTBOOSTER - BLU

Distance	$\mu\text{mol}/\text{m}^2/\text{s}$ (average)*
30cm	697
60cm	202
90cm	91
120cm	53
150cm	34

SMARTBOOSTER - FR

	BLUVEGETATOR	FRPENETRATOR	SMARTBOOSTER
Input	AC 100-240v 50/60Hz	AC 100-240v 50/60Hz	AC 100-240v 50/60Hz
Power	25w	25w	25w
PF	> 0.9	> 0.9	> 0.9
Ingress	IP20	IP20	IP20
Colour temp.	6000K	3000K	3000K & 6000K
Beam angle	30°	30°	45°
Dimensions	Ø100mm x 145mm	Ø100mm x 145mm	Ø115mm x 165mm
Net weight	550g**	550g**	730g**
Lifetime	25000h, 90% light output		

*Readings taken in a 1m² black room with LI-250A Light Meter (LI-COR), average between two light readings.

**Excluding power lead.

spectronlight.com

Spectron Light Science is a HydroGarden brand | 2 Progress Way, Binley, Coventry, CV3 2NT, UK | www.hydrogarden.com

