

At a Glance

Here are some of the highlights from this project.

40%

10

25%

Less Energy
Compared to HPS (High Pressure
Sodium) Lights.

Days Faster Production

Average growth cycle of basil

decreased from 56 to 46 days.

As MITRA light fixtures penetrate deeper into the canopy.



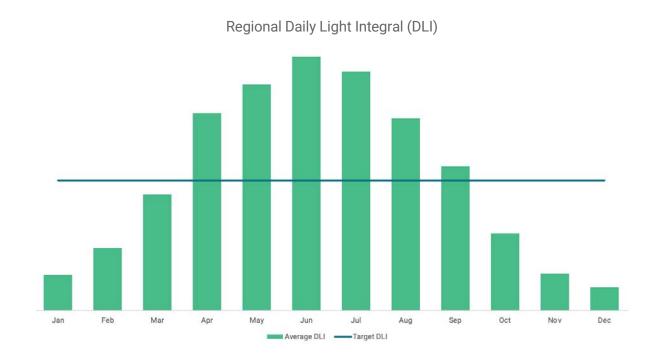
If you want to put lights on your crop, you want to put it on the most efficient way possible. And today, I think that's LED...Our partnership with Heliospectra ensures unparalleled LED lighting and controls as well as a rich legacy of plant science and cultivation expertise.

Andrew Fuller Technical Director

About Bridge Farm

What started as a small family-run nursery in 1988, has evolved throughout the years and grown into one of the UKs' leading producers of plants, flowers, and produce.

Today Bridge Farm Group sells more than 80 million units per year, using the most innovative techniques in the industry. Bridge Farm produces some of the UK's highest quality outdoor plants, culinary herbs, flowers, and stems, supplying retailers and consumers across the globe.



The Challenges:

Located in the heart of the Fens, Bridge Farm Group experiences great summers but long and dark winters. They were looking for a way to standardize the quality and yield of their crop week over week, enabling them to grow consistently year-round.

Bridge Farm Group needed to fill the light gap spanning from October to the end of March.

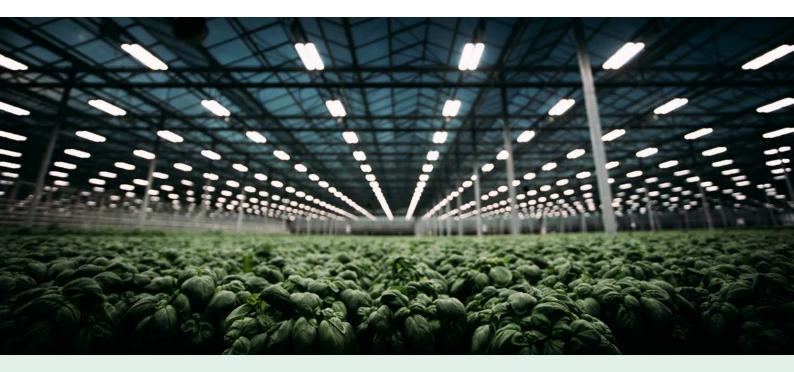
With a target daily light integral (DLI) in mind, Bridge Farm started looking at supplemental lighting options for their new greenhouse facility. Ultimately, they decided to turn to more energy-efficient LEDs instead of traditional horticultural HPS lights.



The Solution

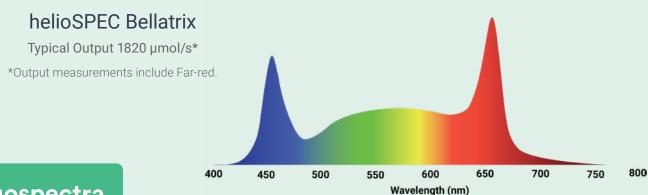
After testing several LED suppliers, Bridge Farm Group ultimately decided on Heliospectra's highly efficient and modular MITRA fixture. A spectral trial was conducted to help Bridge Farm choose the best light spectrum for their greenhouse environment. The trial demonstrated that spectral quality highly influences plant growth performance during the autumn and winter production seasons.

By using the MITRA with the Bellatrix broad spectrum, Bridge Farm was able to grow their potted herbs taller and faster.



The Spectrum

Using only the latest, high quality LEDs, the **Bellatrix broad spectrum** supplies a high output and a wide range of wavelengths, including blue, green, and red, to ensure healthy and efficient crop growth year round – independent of seasonal light levels.





Why MITRA

MITRA offers a flexible, versatile, and resource-efficient modular solution that easily adapts to any greenhouse, indoor or vertical farm environment. The optimized high-output broad-spectrum supports healthy crop development in a wide range of crop types - from seedlings to light hungry crops. The clean bright light is easy to work under, and the heat reduction compared to traditional HPS lighting ensures a healthy, practical work environment.



IP67
Dust and Water
Resistance

2.8 μmol/J Fixture Efficacy **3** Customized Spectra

UP TO 40%

Decrease in energy consumption compared to HPS

Support and Service

Heliospectra's dedicated experts continue to work closely with Bridge Farm Group to ensure crop development is meeting - or exceeding - their targets! Our plant science background makes us a great partner - we work with our customers to ensure they reach their goals and get the most out of their lights and plants.

Heliospectra is not just selling a light, they continue to support and aid us as we learn - ensuring that our growers and the company as a whole are getting the most out of the investment.

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The Results

By using the Heliospectra MITRA LEDs, Bridge Farm Group managed to reduce operating costs, increase yield, speed up production and improve their plant health and quality.

Bridge Farm Group is now achieving consistent, high-quality crops year-round.



Reduced Operating Cost

With the installation of the Heliospectra LEDs Bridge Farm experiences direct cost savings:

- 40% energy savings compared to traditional HPS
- Energy savings didn't compromise plant quality.



Increased Yield Output

The high-quality spectrum and light output are penetrating the canopy of the plants better, resulting in:

- Increased plant density
- 10 days faster production
- · More pots per growth cycle



Improved Plant Quality

Thanks to a balanced spectrum and optimized light output year-round, Bridge Farm Group has seen:

- Sturdier seedlings
- Improved uniform growth, aroma and taste
- Reduced tip burn



Greenhouse Growing

Advice From Our Experts

We asked our Plant & Light Expert, Ida Fällström, what advice she would give greenhouse growers who are interested in supplemental LED lighting.



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All LED lights are not created equal, make sure that the fixtures you choose match your application. Outline your specific growth goals (ie. accelerated production, coloration, flowering, shape) and then choose a light spectrum to help you achieve those goals.

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When you make the switch from HPS to LED in your greenhouse, take advantage of the dimming and scheduling capabilities to maximize your energy and cost savings.



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When building a lighting strategy for your facility, you need to take into account the light quality, light intensity, *and* photoperiod. There's no one single metric you can rely on.



Ready to Take the Next Step?





CHAT WITH

Our Plant & Light Experts

Interested in learning more about Heliospectra lighting solutions for your greenhouse? Let's schedule some time with our experts to discuss your crop and lighting goals.

Contact Us

DOWNLOAD OUR

Free Growers Guide

Our eBook, **Producing High-Quality, Profitable Food Crops Faster,** discusses lighting strategies for herbs, lettuce, leafy greens, microgreens and vine crops.





Learn More





CHECK FOR

Rebates & Savings

By taking advantage of custom rebates, you can shorten the payback period of your LED light investment to less than one year. Download our 2021 Growers Guide to learn about the rebates that are available in your area.

US Savings

Canadian Savings

STAY IN TOUCH

Connect With Us

Stay up to date with our latest blogs, webinars, and ebooks. We work with other industry experts to provide you with quality LED and horticulture thought leadership.











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