





LIGHT
CREATED
FROM
LIFE



BIOS VP Robert Soler at work in the BIOS laboratory

Humans spend a lot of time coming up with quick-fix solutions for problems we create for ourselves. We take sleeping pills when we have insomnia. We drink energy drinks when we're tired. We use artificial chemicals to make our plants grow faster and bigger. We keep searching for new remedies to what ails us, but the truth is that we already have everything we need. We simply need to utilize the potential that nature provides.

Life is brilliant, powerful and intelligent. It is designed to survive and thrive using the natural resources of our world. Life is designed to perfection. That's why we set out to create natural lighting solutions using the best blueprint in existence—life itself.

BIOS® brings the power of life to human and agricultural lighting by reverse engineering biology to create true natural light that helps life thrive.

LEADERS IN LIGHTING

We are a team of physicists, biologists, engineers, designers and business leaders with more than 50 years of collective experience in lighting technology. We are dreamers and doers with a single vision: A new way to light the world rooted in nature's greatest innovation—life. We are passionate about developing lighting solutions that complement the innate functionality of human and plant life through a biology-first approach.



BIOS SkyBlue circadian lighting—real sunlight for any LED fixture



IT STARTS WITH BIOLOGY

Humans evolved around the sun. The human circadian rhythm—the internal clock that tells our body when to sleep and when to wake—takes its cues from the sun. It is an evolutionary function stamped into our DNA. We are blue sky seeking creatures. In modern society, however, we live mostly indoors under artificial light—and it's having a negative effect on our health.

“Social jet lag”—a term coined to describe the uneven sleeping patterns that are caused by indoor lighting and the modern work-life schedule—leads to increased risk for serious health conditions including heart disease, obesity, diabetes, depression and even ADHD in children. Humans need natural light—and we're not getting enough of it. BIOS has a solution.

BIOS SKYBLUE® — REAL CIRCADIAN LIGHT FOR BETTER SLEEP AND BETTER HEALTH

BIOS has revolutionized indoor lighting by reverse engineering human biology to create circadian lighting that communicates with our bodies at the cellular level to regulate sleep patterns, boost energy and improve overall health. Unlike other circadian lighting “technologies,” BIOS SkyBlue provides a spectrum of light that communicates directly with human biology via a non-visual photoreceptor in the eye—the natural “blue sky” spectrum of light that our cellular biology has recognized for tens of thousands of years. Other circadian lighting technologies—like color tuning—are a placebo, attempting to impersonate natural light by changing color throughout the day. SkyBlue gets it right, providing the right spectrum of light on the right curve to stimulate our biology.

A high-angle photograph of an astronaut in a white space suit floating in space. The astronaut's helmet is at the top, and their hands are visible. The background is a dark, starry space. The title 'MISSION TO EARTH' is overlaid in large white letters. There are decorative orange and blue circles and lines on the page.

MISSION TO EARTH

BIOS lighting solutions were originally developed at NASA to help humans reach the stars, and now they've come back to earth to help life thrive.

Working with NASA, BIOS VP Robert Soler developed circadian lighting to help astronauts regulate sleep patterns on the International Space Station where the sun rises and sets every 90 minutes—and where operating at less than full focus has deadly consequences. The same circadian lighting that Soler created to solve the sleep issues for astronauts is the basis for BIOS SkyBlue circadian lighting today.

While at NASA, BIOS VP Neil Yoro worked on bioregenerative life support systems, controlled environment crop production and lighting technology development for long duration human exploration of space and extraterrestrial habitation. The LED solutions he developed with NASA now powers indoor and greenhouse farming on earth to create more efficient and healthy plant growth.

DRIVING HEALTH, HAPPINESS AND PRODUCTIVITY

BIOS SkyBlue lighting is driving health, happiness and productivity for a variety of industries, including hospitals and healthcare facilities, office and workplace, senior living centers, and educational facilities.

HEALTHCARE

Improve output from staff — and outcomes for care

WORKPLACE

Create a more productive and healthier workforce

SENIOR LIVING

Reduce depression, agitation, sundowners syndrome and nighttime wandering

EDUCATION

Bring energy and focus back to the classroom

The background of the entire page is a close-up photograph of a green leaf with numerous water droplets on its surface. The leaf's veins are clearly visible, and the droplets vary in size, some reflecting light. The overall color palette is a range of greens, from light to dark, creating a fresh and natural atmosphere.

BIOS AGRICULTURAL LIGHTING



THE EVOLUTION OF CROP PRODUCTION

Over thousands of years, humans learned how to efficiently domesticate plants by mass producing crops in fields and breeding them for certain characteristics using sun, soil and water. Today, we use the same formula, but we also grow plants indoors. Indoor growing environments offer a variety of benefits— faster plant production and less use of land, water and nutrients, to name a few. But indoor growing offers its own challenges— increased electricity usage, light emission that is not always photosynthetically ideal, and learning methods to optimize complex parameter interactions. BIOS builds lighting solutions to meet these challenges.

THE ONLY GROW LIGHTS DESIGNED BY NATURE

Our team of NASA scientists and engineers started with plant biology and worked backwards from there to create first-of-its-kind agricultural lighting solution that improves the quality and quantity of crops in indoor applications—and solves the cost and efficiency issues faced by industrial grow operations. The only true industrial grade indoor grow lights, BIOS lighting solutions are:

- Rugged, durable and IP65 Wet-Rated
- Simple to clean in place to create greater efficacy over time
- Versatile in configuration
- Simple to install





GROW LIGHTS FOR A GROWTH INDUSTRY

The legal cannabis industry has exploded in recent years, and BIOS is leading the way with lighting solutions designed to help the industry evolve from small, private grows into large-scale industrial operations. The only grow lights engineered specifically to meet natural plant biology, BIOS cannabis lighting maximizes yields, improves flower quality and optimizes precision.

With innovative construction built specifically for industrial application, BIOS lighting solutions improve efficiency, save costs—and make it simple to scale up your operation. The BIOS team also offers unmatched expertise in grow room lighting design and will help you develop a custom grow room layout to optimize your crop production.



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