



Powercore Pro

Power made simple

a  signify brand

Powercore delivers

Our patented approach to power output proves that simple is better—as well as faster, more efficient, and accurate.

Integrated into all major Color Kinetics luminaires, Powercore® simplifies installation, operation, and maintenance—all while lowering system cost. That's why Powercore delivers the reliable power that fuels tens of thousands of impressive lighting installations around the world.

When we introduced Powercore to the marketplace more than 20 years ago, it represented an entirely different approach to power management, one that ensured reliability, longer run lengths, and simplified installation—all while lowering total system cost. It quickly proved its value and set a new standard for reliability and simplicity. Now Powercore Pro—coupled with our latest Data Enabler Pro gen3 data supply—supports longer single run lengths, faster data transmission speeds, and improved efficiency.

Powercore and Powercore Pro are just part of our ongoing commitment to raising LED lighting performance, consistency, and reliability to new heights.



The power to perform— flawlessly and reliably

Powercore technology is the unsung hero of the Color Kinetics technology portfolio. Why?

Because its behind-the-scenes work is invisible but crucial. After all—white or dynamic color, simple or ambitious—every lighting installations requires reliable power.

Powercore simplifies power management and keeps installations fast and trouble-free—whether lighting bridges, monuments, stadiums, or businesses. That's why you'll find Powercore technology in all major Color Kinetics luminaires.

Powercore controls power output to luminaires, merging line voltage with control data and delivering both over a single standard cable—all to ensure a steady, reliable flow of power. It combines reliability with flexibility. For example, Powercore uses standard 3 and 4-wire cable, the kind any electrician has on hand. And works with DMX and KiNET (the Ethernet lighting protocol from Color Kinetics) control data¹—enabling it to bring its many advantages to a wide range of lighting installations.

Despite the advanced, innovative technology behind Powercore, it's designed for simplicity. When you choose a Color Kinetics luminaire with Powercore in its name, you can be confident that installation, operation, and maintenance will always be remarkably easy.

¹ When used with Data Enabler Pro gen 3, it also supports Streaming Architecture for Control Networks (sACN).



Powercore Pro & Data Enabler Pro gen3

Powercore Pro retains the core strengths of Powercore technology—reliability, ease-of-use, and lower total system cost. But it adds additional benefits:

- Longer individual data run lengths—up to 400 ft. with Data Enabler Pro gen3.
- Higher efficiency—enabling greater run lengths and luminaire counts.
- Faster data transmission speed—speeding commissioning by querying luminaires faster.

Data Enabler Pro gen3 works hand-in-hand with Powercore Pro to provide these benefits. It's our latest, most advanced data handler, providing improved reliability, an improved installer experience, longer run lengths, support for the sACN networking protocol, and more.



Find out more about Data Enabler Pro gen3



Photography: Swaminarayan Sanstha

Powercore delivers powerful benefits

The main benefit that Powercore brings to any lighting installation is clear—an uninterrupted supply of reliable power. But that's just the beginning.

Lower total system cost

Powercore minimizes the number the power management components required to run a lighting system. Reducing the total parts count lowers the total system cost. The combination of Powercore Pro and Data Enabler Pro gen3's longer individual run lengths offer real savings to long linear runs of luminaires (fewer DE Pros needed)

Less complexity

By eliminating the need for external power supplies and extra cabling, Powercore lowers the cost and complexity of installations. Electrical contractors and installers can easily install Powercore luminaires using familiar methods and tools.

Fast and easy configuration

Our easy-to-use Configuration Calculator helps you determine the number of luminaires each circuit in your installation can support, based on type of luminaire, power source, line voltage, circuit load, and cable lengths.

Longer run lengths

Powercore and Data Enabler Pro work together to enable long run lengths (power and data), reducing complexity and cost. Data Enabler Pro has a maximum individual run length of 175 ft. with a max total run length 400 ft. Powercore Pro and Data Enabler Pro gen3 raise individual and total run length to 400 feet. Plus they enable bi-directional communication to all connected luminaires, streamlining commissioning.

Luminaire choice

Powercore-enabled luminaires and Data Enabler Pro support multiple types of luminaires on one run, enabling lighting designers to choose the luminaires that achieve their vision—without worrying about power issues.

Exceptional reliability and low maintenance

As a proven technology with decades of proven success, Powercore provides the exceptional reliability that ensures flawless operation today—and minimal maintenance in the future. New technological enhancements, such as Powercore Pro's improved 6kV surge protection, take reliability even further.

Powercore makes reliability look remarkably beautiful

Every dynamic lighting installation requires a steady stream of power and data. See how Color Kinetics luminaires are helping bring new excitement and engagement to structures around the world. All thanks to the rock-solid reliability and ongoing innovation of our Powercore technology.





Explore the Color Kinetics technology portfolio

We continually explore your challenges, invest in research and development, and make the significant commitment required to develop and perfect breakthrough technologies.

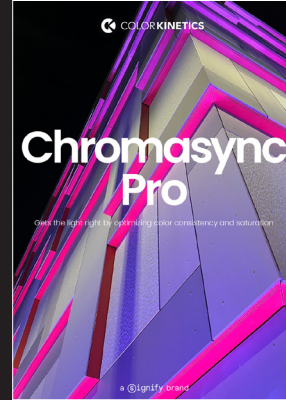
The result of decades of work, our unequaled portfolio of proprietary, quality-enhancing technologies helps you achieve the best possible results. These technologies increase quality by ensuring sustainability, consistency, raising uniformity, providing precision control, and more.



Optibin

Where consistency begins.

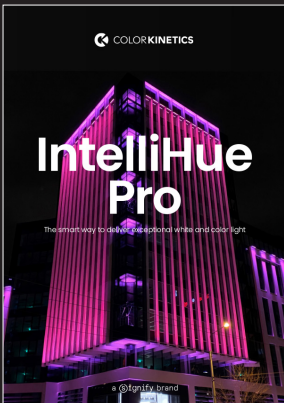
Our LED optimization technology begins the color consistency process by grouping (or binning) LEDs by flux as well as center wavelength.



Chromasync Pro

Optimize color consistency and saturation.

Our advanced output optimization technology represents a major leap forward in color consistency and accuracy. But it also brings another much-needed benefit—simplicity.



IntelliHue Pro

The smart way to deliver white & color light.

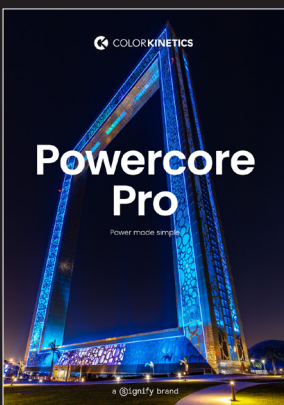
Our advanced approach to color mixing produces high-quality white light, subtle pastels, and fully saturated colors in the same precision-controlled luminaire.



OptiField

Uniformity never looked this good.

OptiField's freeform optic creates a breakthrough rectangular beam that covers large surfaces with full, bright, even light—covering more area with fewer luminaires.



Powercore Pro

Power made simple.

Our proven power management technology combines line voltage and control data with a single standard cable—simplifying installation and lowering total system cost.



FluxBoost

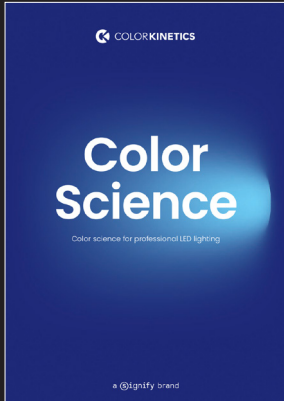
Unlock the full power of your luminaires.

With FluxBoost, a project can use more of the allocated power budget, enabling significantly higher output, reducing waste and increasing efficiency.

What matters in professional lighting?

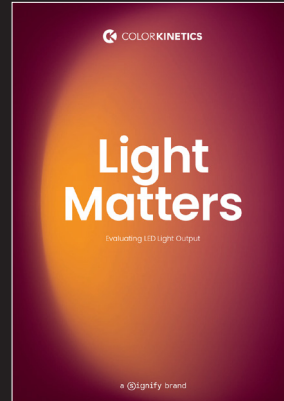
Our series of guides explores key topics in professional lighting—*Color Science*, *Light Matters*, *Quality Matters*, *Optics Matter*, and more.

It's part of our commitment to passing on our deep technical knowledge and decades of expertise to help you achieve your vision.



Color Science

Color science serves as an underlying technical foundation for the entire lighting industry. It establishes a consistent way of thinking about light—how it is created, controlled, and delivered in real-world implementations. A core understanding of the science of color is critical to lighting professionals, who must be able to specify the right light—color, technology, luminaire, and more—clearly and accurately.



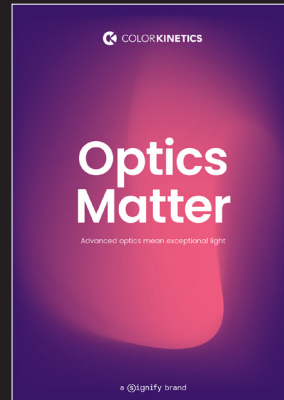
Light Matters

Traditional methods of evaluating light focused on lumen output, which was defined by the output capabilities of a light source, such as an incandescent lamp. The advent of LED lighting changed all that, since lumens were no longer the best measurement of a luminaire's capabilities. We explore some of the new ways lighting can be evaluated in the age of LEDs.



Quality Matters

What does quality mean to you? The answer depends on what you do within the lighting industry. Quality has different meanings for building and site owners/managers, lighting designers, and installers. We delve into the needs of each of these groups as we take a holistic approach to quality, one that begins and ends with the customer.



Optics Matter

It's safe to say that few lighting designers, building owners/managers, or other lighting professionals have ever seen the optical system housed inside an LED luminaire. But the optical system, or optics, play a vital, but often hidden role in performance, efficiency, and more. The right optics within a luminaire make a big difference in the final results—for both interior and exterior applications.



Control Matters

Controlling light used to be simple. It was on or off. Then came dimming, which raised or lowered the intensity of light. The invention of LED luminaires added another dimension, color—and new capabilities, such as the digitalization of lighting, including the ability to zone dimming and control the spectral content of color-changing light.



Sustainability Matters

By raising efficiency to new heights, our solutions help our customers do more with less energy. And since we design our solutions for long, useful lives, they create less waste. So, our customers get great results, year after year. All with less impact on the planet.

Choose the luminaire that meets your needs

Powercore is just part of the ongoing effort by Color Kinetics to set new standards for consistency and reliability. These technologies work together to deliver the accuracy required by innovative and ambitious dynamic color applications.

To find out more about how to make Color Kinetics luminaires part of your next lighting design, visit www.colorkinetics.com

Note: Powercore Pro is available for specific Color Kinetics luminaires (e.g. Graze Elite Powercore), while other luminaires may use our core Powercore technology, proven effective in thousands of installations. To find out the current availability status of Powercore Pro [click here](#).



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