

Philips Color Kinetics

Transforming environments with innovative LED lighting solutions since 1997



Philips Color Kinetics



London Eye and County Hall

London, England

has been transforming environments with innovative LED lighting solutions since 1997

Philips Color Kinetics started the LED lighting revolution with its unparalleled expertise and commitment to innovation.

Philips Color Kinetics has a rich portfolio of versatile, easy-to-use LED lighting solutions, in both colored and white light.

Philips Color Kinetics has the track record to prove the longevity and reliability of its LED lighting solutions.

Philips Color Kinetics makes LED lighting fixtures that deliver high levels of color quality, consistency, and energy efficiency.

Philips Color Kinetics effectively educates and informs its customers about LED lighting solutions and technology.

Philips Color Kinetics provides comprehensive customer support, from specification through configuration and operation.



Philips Color Kinetics

PHILIPS COLOR KINETICS
has been pioneering and
innovating LED lighting systems
and solutions since 1997.

ONLY PHILIPS COLOR KINETICS
has successfully installed its LED
lighting systems in over 34,000
locations in more than 100
countries around the world.

PHILIPS COLOR KINETICS
offers an unmatched depth of
expertise, stellar track record,
and unparalleled industry
knowledge.



started the LED lighting revolution with its unparalleled expertise and commitment to innovation

Expertise

When you purchase LED lighting systems from Philips Color Kinetics, you enter into a partnership with the recognized leader in LED lighting solutions.

Philips Color Kinetics backs its LED lighting solutions with unparalleled industry knowledge, years of experience, and an unmatched track record.



Lighting systems from Philips Color Kinetics are in use in over 34,000 high-profile lighting installations of varying sizes, environments, and levels of control in more than 100 countries around the globe — many specified by the world's most renowned lighting designers and architects.

Since the beginning, Philips Color Kinetics has employed recognized experts in the field of intelligent LED illumination. Today, company leaders sit on key industry committees and make significant contributions to emerging standards for leading technical authorities such as the International Commission on Illumination (CIE), the International Society of Automation (ISA), the Zhaga Consortium, the Illuminating Engineering Society (IES), the American National Standards Institute (ANSI), and the National Institute of Standards and Technology (NIST).

Innovation

Founded in 1997, Philips Color Kinetics virtually invented intelligent LED illumination, and was the first manufacturer dedicated to designing dynamic LED lighting systems and bringing them to market.

The company's commitment to cutting-edge research and development is reflected in its extensive contributions to the Philips intellectual property portfolio in the area of LED lighting. As of 2011, innovations by Philips Color Kinetics engineers and researchers resulted in 135 issued U.S. patents, covering a range of LED products and technologies for various lighting applications.

Philips Color Kinetics continues to invent new solutions for delivering energy-efficient LED light. While we focus on our growing line of integrated LED lighting fixtures, we also do much more.

We offer industry-leading LED light engines and control platforms to our Philips partners and to the OEM lighting community. Philips Color Kinetics engineers developed the Spectrally Tunable Light Source for NIST, a test system designed to improve methods for calculating and measuring the quality and color rendering of LED light sources. And we made key contributions to developing a viable LED replacement for the 60-watt incandescent lamp, which won the US Department of Energy's Bright Tomorrow Lighting Prize (L Prize) competition in 2011.

Vanity Nightclub
Las Vegas, Nevada, USA

Photography: Courtesy of Hard Rock Hotel & Casino Las Vegas

Philips Color Kinetics

ONLY PHILIPS COLOR KINETICS offers over 1,400 standard product configurations for LED façade lighting and over 340 standard configurations for interior linear lighting.

PHILIPS COLOR KINETICS solutions are easy to install, control, and maintain.

ONLY PHILIPS COLOR KINETICS makes intelligent LED lighting fixtures that use Powercore technology to receive control data and line power over a single standard four-conductor cable.

Iconic lighting installations around the world

Since 1997, Philips Color Kinetics has been illuminating signature exteriors, interiors, and stages with high-quality colored and white LED light.





has a rich portfolio of versatile, easy-to-use LED lighting solutions, in both colored and white light

Versatility

Philips Color Kinetics offers meaningful LED lighting solutions in architectural, theatrical, accent, and general lighting applications, both indoors and outdoors. Our growing portfolio includes professional graze, wash, flood, spot, cove, task, and direct view LED lighting solutions.

Our solid white, solid color, intelligent white, RGB, and RGBAW LED lighting fixtures are ideal for applications as diverse as simple under-cabinet lighting, subtle accent lighting, dynamic effect and stage lighting, and stunning direct view displays incorporating more than 250,000 individually controllable points of light.

Philips Color Kinetics offers hundreds of standard product configurations for façade lighting and interior linear lighting. Depending on fixture type, we can customize beam angles, LED channels, housing colors, lengths, and more, or engineer custom solutions to fit your exact lighting design and project needs.

We offer a full range of DMX and Ethernet lighting controllers specifically designed to work with our LED lighting fixtures, from simple wall-mounted controllers with pre-programmed effects to professional software / hardware control solutions offering automatic fixture discovery and addressing, advanced light show authoring, and precise control of complex lighting installations and video displays.

Our LED lighting controllers integrate seamlessly with leading third-party DMX and Ethernet controllers, lighting consoles, advanced show control systems, occupancy sensors, and building automation systems.

Ease of Use

LED lighting solutions from Philips Color Kinetics offer superior ease of use in installation, configuration, programming, and maintenance.

Patented Powercore technology rapidly, efficiently, and accurately controls power output to Philips Color Kinetics fixtures directly from line voltage. The Philips Data Enabler Pro merges line voltage and control data and delivers them to fixtures over a single standard cable, dramatically simplifying installation and lowering total system cost. Powercore eliminates the need for external power supplies, and allows long runs of fixtures on a single circuit.

Solid white and solid color LED lighting fixtures with Powercore can be wired directly to a wall box or plugged directly into a wall outlet,

and can be dimmed with many commercially available reverse-phase ELV-type dimmers.

Our lighting fixtures are easy to position and install in even the most challenging mounting circumstances. Depending on form factor, our fixtures feature flexible end-to-end locking power connectors, adjustable mounting hardware, constant-torque rotating hinges, and rotating and locking housings for precise aiming and color mixing.

Our suite of addressing, configuration, and commissioning tools make it easy to discover, address, test, and maintain fixtures in all lighting installations, regardless of complexity.

Philips Color Kinetics

ONLY PHILIPS COLOR KINETICS can prove its lumen maintenance claims with LED lighting installations that have been running continuously, and virtually maintenance-free, for more than a decade.

PHILIPS COLOR KINETICS designs its LED lighting systems to achieve high levels of operational stability and reliability, and offers a 5-year manufacturer's warranty on all architectural LED products.

PHILIPS COLOR KINETICS meets or exceeds the major industry, regulatory, and safety compliance standards around the world.



eW Burst Powercore

Winner of the 2010 Next Generation Luminaires competition, jointly managed by the US DoE, IESNA, and IALD.



Detroit Metropolitan Wayne County Airport Passenger Tunnel

Detroit, Michigan, USA



has the track record to prove the longevity and reliability of its LED lighting solutions

Longevity

Philips Color Kinetics LED lighting systems have been illuminating signature façades, landmarks, and interiors around the globe for over 15 years. Some of our installations have been running continuously, 24 hours a day, seven days a week, for more than a decade.

Mathematical models that predict the reliability and useful life of LED light sources and fixtures are important for estimating the longevity of LED lighting installations. These estimates in turn support total cost of ownership and return on investment calculations.

But mathematical predictions are just that — predictions. Philips Color Kinetics is the only LED lighting manufacturer with the rich history, years of service, and track record of successful installations to prove the reliability of its lifetime predictions.

Reliability

Before we release our LED lighting products to the market, we subject them to rigorous design verification and validation testing by our engineering and quality teams, as well as by certified third-party labs.

Depending on product type, pre-release validation includes testing for over-voltage conditions, electromagnetic interference, long-term exposure to extreme temperatures, resistance to vibration and shock, operating life of individual components, seal integrity, corrosion resistance, and more.

Our LED lighting products meet or exceed industry and government standards for emissions and safety. Many system components, including inboard power supplies, LED drivers, and control circuitry are designed to have a lifetime at least as long as the lumen maintenance thresholds of the LED light sources integrated into the system.

To ensure the highest possible levels of reliability, we design and test our products to,

and in many cases beyond, established code and regulatory compliance standards, including UL, cUL, CE, PSE, FCC, CCC, CQC, SAA, C-Tick, RoHS, and WEEE.

To maximize the useful life of LED sources in our fixtures, we have developed industry-best thermal management techniques and technologies. Our patented LED driver technology ensures that LED sources operate at constant and carefully regulated current levels, and our fixture housings are designed to guarantee that internal operating temperatures remain within acceptable limits.

You can trust LED lighting solutions from Philips Color Kinetics to provide reliable, cost-effective operation in even the most extreme environments around the globe.

Philips Color Kinetics

PHILIPS COLOR KINETICS

produces LED lighting fixtures that output high-quality light, with unbeatable consistency and uniformity of hue and color.

PHILIPS COLOR KINETICS

offers LED lighting solutions that combine high levels of professional light output, energy efficiency, and environmental friendliness.

444 Madison Avenue
New York, New York, USA



makes LED lighting fixtures that deliver high levels of color quality, consistency, and energy efficiency

Quality of Light

LED lighting fixtures from Philips Color Kinetics set new standards for consistency and uniformity of light output.

Optibin, our advanced proprietary binning algorithm, guarantees the color consistency and uniformity of LED sources across individual fixtures, manufacturing runs, product families, and the entire Philips Color Kinetics LED lighting portfolio.

Our line of linear white-light LED fixtures delivers unprecedented uniformity of hue (Duv) and color temperature (CCT) — at twice the precision recommended by industry (ANSI) standards for color quality.

Our white-light LED lighting fixtures offer quality of light as good as if not better than comparable fluorescent and incandescent fixtures, along with color rendering sufficient for virtually any application, consistently achieving CRI scores of 80 and above.

Many of our interior and exterior flood and wash fixtures offer user-installable spread lenses and optical accessories to support a variety of light dispersion and beam shaping options to support a multitude of applications.

Sustainability

LED lighting fixtures from Philips Color Kinetics deliver superb energy-efficiency in an environmentally friendly package.

Lighting consumes approximately 20% of all electricity in the world. Lighting industry professionals agree that LED lighting technology holds the greatest potential to conserve energy on a global scale.

LED lighting solutions from Philips Color Kinetics are many times more energy efficient than incandescent light sources, and twice as energy-efficient as many fluorescent sources — and they will only continue to improve.

Many of our white-light LED fixtures achieve efficacy levels of 45 lumens per watt or higher — in some cases sufficient to earn the ENERGY STAR label, the government-backed symbol for energy-efficient products in the US.

Because our LED lighting fixtures offer an average useful life twice as long as the rated life of many compact fluorescent sources, and up to 50 times longer than that of most

incandescent sources, they need to be replaced less often, which means less waste. Our products can be easily disassembled for recycling. Recyclable materials in our fixtures include polymer and aluminum housings, fasteners, glass lenses, and circuit boards.

Our LED lighting fixtures are designed and manufactured in accordance with international directives on energy efficiency and the restriction of hazardous substances such as lead, cadmium, and mercury. These directives include EuP, WEEE, RoHS in the EU, and EPAAct, EISA, and California's Title 24 in the US.

Philips Color Kinetics participates in several industry initiatives related to sustainability and energy conservation. As a member of the Next Generation Lighting Industry Alliance (NGLIA), we have helped to develop a technology roadmap for the US Department of Energy.

PHILIPS COLOR KINETICS
views its customers as partners
in innovation.

PHILIPS COLOR KINETICS
trains, educates, and informs
its customers — whether they
are building owners, architects,
lighting designers, light show
content providers, installers, or
electricians.



LED Lighting Explained
Winner of Best Education Brand
of the Year and Best Campaign /
Catalogue of the Year, 2010
Market Leadership Awards from
Architectural SSL magazine



Peeps & Company Retail Store
National Harbor, Maryland, USA



Philips Color Kinetics

effectively educates and informs its customers about LED lighting solutions and technology

Transparency

At Philips Color Kinetics, we believe that the most successful customer is a knowledgeable customer. To ensure that you can specify, plan, install, and configure our LED lighting systems easily and successfully, we make all of our non-proprietary product information publicly available.

Our published product information includes detailed photometrics, lumen maintenance calculations, CRI and power factor measurements, wiring and dimensional diagrams, and detailed documentation on how to install and maintain our LED lighting products. We also offer applications and content to help our customers configure, address, and deploy Philips Color Kinetics LED lighting solutions.

We work exclusively with leading third-party testing labs to gather accurate, unbiased, NIST-traceable data measured according to industry standards such as LM-79 and LM-80. We publish raw IES files for all versions of our fixtures on our websites so that lighting specifiers and designers can model installations using real-world light output and distribution information.

Thought Leadership

We believe that it's our responsibility as a leading LED lighting provider to educate and inform lighting specifiers, designers, and installers on critical and often confusing issues related to LED lighting technology.

LED lighting is an emerging and disruptive technology, and demands that lighting professionals think in new ways about how to light spaces, measure the output of light sources, and evaluate the capabilities of both conventional and LED lighting solutions.

We offer a growing library of technical briefs, technology overviews, books, and other educational materials to keep pace with the rapidly evolving LED lighting technology space.

LED Lighting Explained, our award-winning book-length introduction to understanding

LED light sources, fixtures, applications, and business opportunities, was distributed to over 35,000 lighting professionals around the world since publication.

We complement our printed and on-line publications with a full schedule of speaking engagements, participation in lighting-related programs at leading universities, and sponsorships for mentoring programs such as the *FIRST* Robotics Competition.



Philips Color Kinetics

provides comprehensive
customer support, from
specification through
configuration and
operation

Support

As a people-focused company, Philips Color Kinetics prides itself on its dedication to ongoing customer and technical support. Our commitment continues long after a sale is made.

Because installations and build-outs happen around the world and at all hours of the day and night, Philips Color Kinetics professionals are available around the clock for technical, integration, and warranty support. Our team of experienced applications engineers can help with product specification, lighting design and renderings, and light show programming, over the phone and on site.

Our international lighting consultants are available at any time to assist in the specifying, design, installation, programming, and troubleshooting of Philips Color Kinetics lighting systems. With a network of trained sales and support professionals, VARs, lighting designers, architects, content providers, systems integrators, electrical contractors, distributors, and dealers in more than 100 countries around the globe, Philips Color Kinetics can assist with truly international projects — even if the customer headquarters are in one country, the lighting designer is in another, and the lighting installation is in a third.

The sun never sets on Philips Color Kinetics.

World Market Center
Las Vegas, Nevada

Photography: Darius Kuzmickas

Philips + Philips Color Kinetics

Philips Color Kinetics has been the world's premier LED lighting pioneer since its founding in 1997.

In 2007, the company was acquired by Philips, the global leader in lighting for over 120 years.

The unique history and know-how of Philips, combined with the pioneering LED technology leadership of Philips Color Kinetics, means innovative, sustainable lighting solutions, now and into the future.

When you purchase lighting solutions from Philips Color Kinetics, you enter into a partnership with one of the world's most trusted and reliable companies — Philips. Together, Philips and Philips Color Kinetics afford our customers unmatched expertise, sound leadership, and unrivalled support.

Philips knows what customers want and need in lighting today. Bringing world-class LED lighting solutions to a broad range of people and places.

Philips has the deep technical expertise and history needed to create exceptional LED solutions. Making a significant and ongoing commitment to advancing LED technology.

Philips brings you the broadest set of innovative LED lighting solutions. Delivering real value and enhancing well-being for diverse customers.

Philips leads the LED lighting revolution. Enabling transformation today . . . and tomorrow.

Philips is your partner. Serving as a trusted innovator.



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