PHILIPS

COLOR KINETICS

ArchiPoint

Product Guide

Get the Best and the Brightest

By day or night, ArchiPoint delivers an exceptionally powerful point of LED light.

ArchiPoint

is a versatile exterior luminaire perfect for direct-view lighting and high-output indirect illumination.

Make a big impact with a **powerful** but **compact** exterior LED luminaire

ArchiPoint iColor Powercore is the right choice when you want a large, powerful point of light that can be seen from a distance—even across an entire city. This daylight-visible, exterior-rated LED luminaire lets you create high-visibility direct-view installations—or highlight architectural, retail, and entertainment exteriors with high-output illuminance. But high-intensity output is just one of the many strengths that ArchiPoint brings to lighting designers, building owners, municipalities, and others who need a lot of light.

We designed ArchiPoint to be exactly what it sounds like—a single point (or pixel) of light used to highlight architectural details with intelligent color light. While a pixel may sound small, ArchiPoint is all about big output—up to an impressive 25,150 nits of intelligent color light in a weatherproof, low-profile housing. It's a proven success, performing flawlessly at high-profile, large-scale sites and enhancing skylines around the world.

ArchiPoint is a versatile exterior luminaire that excels in two main types of installations—direct-view lighting and high-output indirect illumination.

A direct-view luminaire that gets to the point

ArchiPoint is part of our family of direct-view lighting solutions, which creates addressable points and lines of light that transform buildings from dull to dazzling—and attract attention. Direct-view luminaires represent a different approach to lighting. While traditional illumination delivers light on surfaces, with direct-view, the light itself is the main focus. Mounted directly on the surface of a structure, our direct-view luminaires send out points and lines of light that outline office towers, create stunning color effects on casino façades, display video on stadiums—and give lighting designers the chance to let their artistic imaginations run wild. For large-scale direct-view projects that demand the brightest point of light available, there's only one real choice—ArchiPoint.

Powerful illumination that lights the way

ArchiPoint can also be used for more traditional indirect illumination, such as beacon applications, which take advantage of its high output. And it excels in accent applications, such as path and marker lighting. Used to illuminate, ArchiPoint is so bright that it can make a building or other structure visible for miles, using carefully controlled, targeted light to get attention, differentiate a structure, and attract visitors.

No matter how you use them, ArchiPoint luminaires get noticed, even in daylight. They deliver high-output light and a full range of color. They're simple to install and reliable to operate. And smart design and meticulous manufacturing make ArchiPoint exceptionally rugged, so it can withstand even the harshest conditions—year after year.

Photography: Xavier Boymond

What makes **ArchiPoint** different?

Take a look at ArchiPoint and the first thing you'll notice is how well-designed and rugged this heavy-duty luminaire is—even before it's delivering light. But that's just the beginning of the many strengths that differentiate this remarkably bright, versatile luminaire.

Maximum Output for Daylight Visibility
It isn't easy to outshine daylight. But ArchiPoint outputs up to 25,150 nits (candela per square meter) of intelligent color light. That's an amazing amount of light, enough to stand out in brightly lit urban environments and daylight—even in direct sunlight.

Intelligent Color
ArchiPoint delivers intensely saturated RGB color light, giving you the color you need—delivered with high output that ensures it gets noticed.

Multiple Applications
ArchiPoint supports direct-view applications, such as large-scale video for architectural, media façade, and advertising applications—for day and night. But it's also right for indirect lighting applications, delivering high levels of intensity for beacon, path, and marker lighting.

Superior Color Accuracy and Consistency
Optibin, our advanced binning algorithm, ensures color consistency and uniformity right from the start by selecting the *brightest and rightest* LEDs at the core of ArchiPoint. It's just one of the advanced, proprietary technologies that optimize our luminaires (see page 9).

Resolution Control
Used in video applications, ArchiPoint luminaires give you precise resolution control, since they can be spaced flexibly depending on resolution and viewing distance—or combined seamlessly with other direct-view luminaires.

Compact Form Factor
ArchiPoint provides high output in a low-profile luminaire, giving you more flexibility for placing luminaires, even in constricted spaces.

Proven Reliability
Thanks to smart design, extensive testing, and years of experience, ArchiPoint delivers unbeatable reliability, even in the most adverse conditions we've encountered around the world—from bridges sprayed with caustic ocean salt spray to the wind-buffeted exteriors of tall buildings.

Powercore Technology
Our Powercore technology delivers line voltage and data to luminaires over a single cable, dramatically simplifying installation and lowering total system cost. Philips Color Kinetics Data Enabler Pro merges line voltage and control data and delivers them to the luminaire over a single cable.

Complete Solution
ArchiPoint is an advanced, reliable luminaire, but it's not the only element that matters in *your* lighting solution. That's why Philips Color Kinetics offers a full range of complementary solutions—including controllers, power/data supplies, and much more (See page 10). All designed and optimized to ensure seamless integration and years of trouble-free operation.

Photography: Philips

ArchiPoint is designed to deliver bright light

Rugged Design. A rugged aluminium housing protects the digital electronics, while a special plastic lens keeps out water and humidity.

Lens Options. Two lens choices are available for ArchiPoint—a clear, flat lens that delivers the brightest output (774 lumens), and a translucent dome lens (made of UV-protected polycarbonate) for the widest viewing angle (150°).

Outdoor-Rated. ArchiPoint is fully sealed for maximum luminaire life and IP66-rated for outdoor applications.

Mounting Base Options. The Conduit Mounting Base has side and back openings for flexible connections in surface-mounted installations. Create a clean look by hiding all the conduit and wiring behind the mounting surface with the Concealed Conduit Mounting Base. For simplified connections, use our Connectorized Mounting Base.

Integrated Accessory. Customize your ArchiPoint luminaires with an optional glare shield.

Consistent Installation. Accepts a universal power input range of 100 to 240 VAC for consistent installation anywhere in the world.

Long Runs. Each Data Enabler Pro can support multiple luminaires for creating long runs of intricately changing color.

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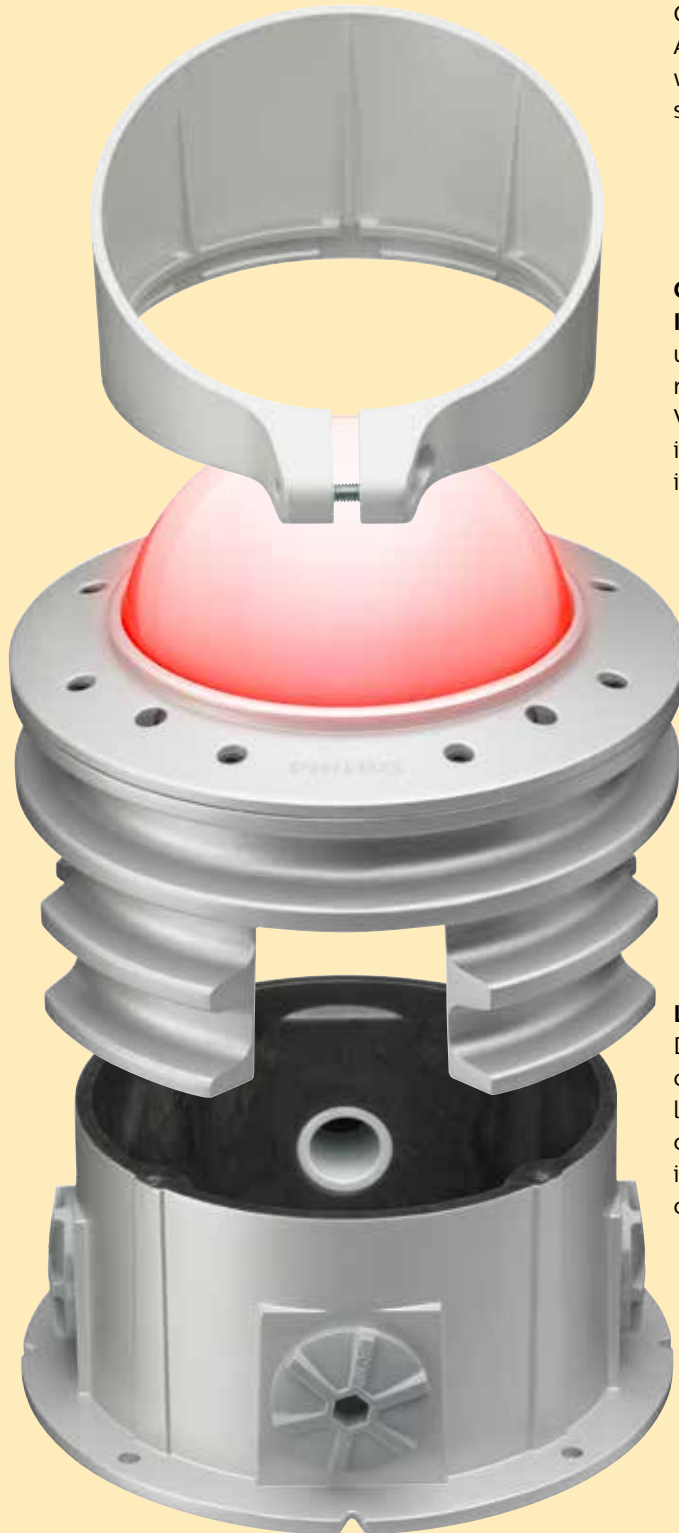
ArchiPoint leverages advanced technologies from Philips Color Kinetics

Philips Color Kinetics is setting new standards for consistency and accuracy by developing advanced technologies that are integrated into our luminaires, including our ArchiPoint luminaires. These technologies work together to deliver the ever-escalating levels of accuracy required by our customers—and their innovative and ambitious projects.

Optibin—our LED optimization technology—begins the color consistency process by grouping (or binning) LEDs by flux as well as center wavelength. This proprietary binning optimization process uses an advanced bin selection formula that exceeds industry standards for chromaticity to guarantee uniformity and consistency of hue and color temperature for all our luminaires. *Integrated into all ArchiPoint luminaires.*

Chromacore—Chromacore® technology is at the core of all Philips Color Kinetics intelligent LED lighting fixtures. Chromacore adds digital interfaces and intelligence to LED lighting systems, enabling precise individual channel control for advanced color mixing and full-color, dynamic effects. *Integrated into all ArchiPoint luminaires.*

Powercore— our patented approach to power output—simplifies power by controlling power output to luminaires directly from line voltage, a faster, more efficient, and accurate approach. Philips Color Kinetics Data Enabler Pro merges line voltage with control data and delivers both to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost. *Integrated into all ArchiPoint luminaires.*

To find out how innovative technologies within our advanced luminaires can help you do more visit www.colorkinetics.com/Learn.

Exceptionally bright lighting
takes more than a luminaire

To unlock the full potential of your ArchiPoint luminaire, you need the right components to power and control it. Philips Color Kinetics completes your solution with:

World-class ArchiPoint luminaires

Controllers

ArchiPoint works seamlessly with the complete Philips line of controllers, including Video System Manager Pro, Light System Manager 5, and iPlayer 3—as well as third-party controllers. This broad line of controllers brings you differing capabilities that match your specific needs, the complexity of your project, and your budget.

ArchiPoint iColor Powercore installations can be controlled via either DMX or Ethernet.

Our controllers offer the industry-standard DMX protocol or our proprietary, scalable KiNET protocol for Ethernet networks. Because of addressing limitations, DMX is appropriate for relatively simple installations, or for light shows in which multiple luminaires operate in unison. Because it is not subject to DMX addressing limitations, Ethernet is the preferred environment for intricate color-changing light shows.

ArchiPoint luminaires are 8- and 16-bit capable. In 8-bit mode, each luminaire uses three sequential DMX addresses, one for red, one for green, and one for blue. In 16-bit mode, each luminaire uses two DMX addresses per LED channel or 6 sequential DMX addresses.

Power/Data Supplies

ArchiPoint accepts Ethernet input from Data Enabler Pro, which merges line voltage with control data and delivers both to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost.

Monitoring and Management

ActiveSite is the first ever cloud-hosted connected lighting system for architectural LED lighting installations. ActiveSite allows you to remotely monitor, manage, and maintain an ArchiPoint installation site from anywhere in the world, using a secure web connection.

ArchiPoint **Showcase**

Example 1   Bringing New Beauty to an Important Bridge

The Busan North Harbor Bridge provides a vital connection between South Korea's largest port city and Youngdo Island. By night, the bridge comes alive with mesmerizing, saturated colors that shift constantly—creating a dream-like experience for travelers crossing the bridge. Among the more than 1,000 Color Kinetics luminaires lighting the bridge, you'll find 370 ArchiPoint iColor Powercore luminaires providing critical bright light that illuminates each pylon of the bridge.

Photography: Philips

Example 2   Lighting a Dome That Can Be Seen for Miles

It's hard to miss the Color Kinetics dynamic lighting installation on the peak of the Tour Part-Dieu, Lyon's tallest building. The four-sided pyramid at the tower's peak is covered with 180 ArchiPoint iColor luminaires, which provide blazing dynamic light that can be seen for miles. These luminaires also serve as individual addressable points of light that can display flowing washes of color, white light, low-resolution video, and text.

Photography: Xavier Boymond

ArchiPoint **Showcase**

Example 3 Accentuating the Unique Shape of an Iconic Tower

The Da Nang Administrative Center stands out in the skyline of Da Nang, one of Vietnam's largest cities and a major tourist hub. The building's glass façade and unique design makes it ideal for direct–view lighting. Mounted on the frame of the building, more than 270 ArchiPoint iColor Powercore fixtures (fitted with translucent dome lenses) follow the sweeping lines that stretch down the façade. These bright, dynamic color points of light accentuate the building's unique architecture—and provide beautiful, dynamic color light that enhances the city skyline.

Photography: Philips

Example 4 Transforming a Bank Façade into an Artistic Canvas

The headquarters of Banco del Crédito de Peru (BCP), the country's largest and oldest bank, is a highly visible structure in the Lima skyline. To emphasize the bank's brand values of openness and transparency, the bank created an interactive façade. Passersby choose effects—including constellations, fireworks, and rain—that appear on a smaller LED podium and the bank's exterior. This multi-layered façade lighting features more than 500 ArchiPoint iColor Powercore luminaires, each secured to the end of a perpendicular pole in a 19 m x 28 m (62 ft x 92 ft) grid—providing an exceptionally bright, dynamic canvas of light.

Photography: 2014 Paz&Cheung

ArchiPoint **Showcase**

Example 5   Enhancing the Beauty of an Iconic Bridge

Vietnam's Bai Chay Bridge is the widest cable-stayed, single-plane concrete bridge in the world. To highlight the dramatic beauty of the bridge's design, it's illuminated with Color Kinetics dynamic color LED luminaires that reflect off the bay at night. ArchiPoint iColor Powercore luminaires deliver direct-view lighting along the spans of the bridge, while other Color Kinetics luminaires provide grazing and spotlighting of its cables, pillars, and other details.

Photography: Philips

Example 6   Creating Points of Light that Connect Two Continents

The Bosphorus Bridge connects Eastern Europe to Western Asia, and is one of the most recognized (and busiest) bridges in the world. A comprehensive Color Kinetics lighting solution accentuates this impressive structure with equally impressive dynamic lighting. The direct-view points of light along the bridge's signature zig-zag steel cables provide an ideal application for ArchiPoint iColor Powercore luminaires—transforming this unique feature into an eye-catching attraction.

Photography: Kaan Verdioglu

Specifications and information

		Lumens	Efficacy lm/w	Power
ArchiPoint iColor Powercore	Clear Flat Lens	774	27	25 W
	Translucent Dome Lens	501	18	25 W

General Information

|	
Viewing Angle	125°, 150°
LED Channels	Red/Green/Blue
Input Voltage	100 to 240 VAC, auto-ranging, 50/60 Hz
Housing Material	Die-cast aluminium with silver gray powder-coated finish
Lens	Clear or Translucent UV-protected polycarbonate
Vibration Resistance	Complies with ANSI C136.31, 3G
Approbations	UL/cUL, FCC Class A, CE
Environment	Dry/Damp/Wet Location, IP66

	Weight	**Dimensions**
Flat Lens Luminaire	1.5 kg (3.2 lb)	99 x 164 x 164 mm (3.9 x 6.4 x 6.4 in)
Dome Lens Luminaire	1.4 kg (3.3 lb)	144 x 164 x 164 mm (5.7 x 6.4 x 6.4 in)
Conduit Mounting Base	0.78 kg (1.7 lb)	—
Concealed Conduit Mounting Base	0.98 kg (2.2 lb)	—

Dimensions

Flat Lens
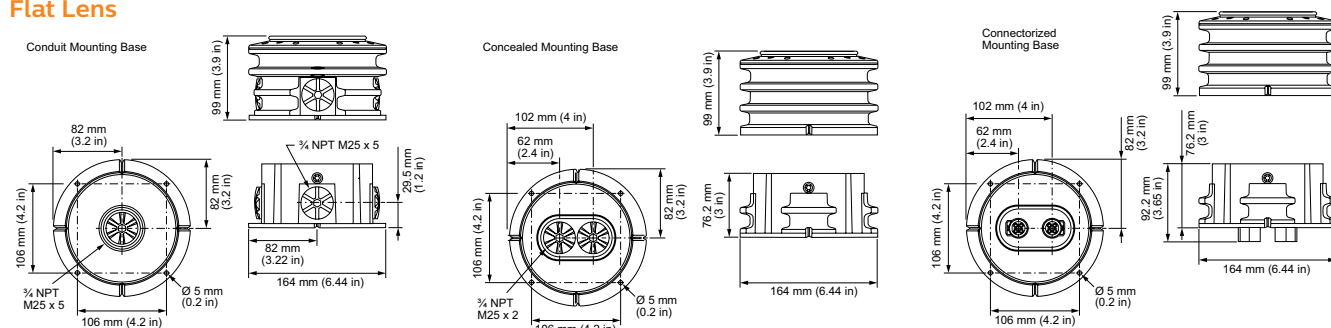
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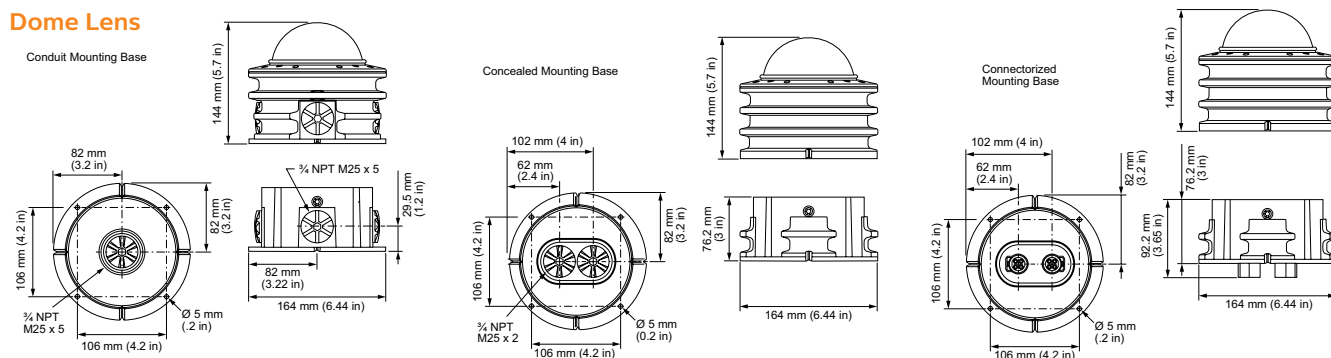
For further information

Complete details, including Installation Instructions, Specification Sheets, .ies files, and product drawings, can be found on the product page.

[ArchiPoint iColor Powercore](#)

Custom luminaires available

Additionally, we can engineer unique solutions to exactly fit your specific lighting project needs.

[Download the Custom Products Brochure](#)

Accessories

Accessory options let you customize ArchiPoint iColor Powercore.

Associated Part	Item Number	Philips 12NC
Conduit Mounting Base, 3/4 in NPT (U.S. trade size conduit)	123-000152-00	910503702574
Conduit Mounting Base, M25 (metric size conduit)	123-000152-01	910503702575
Concealed Conduit Mounting Base, 3/4 in NPT (U.S. trade size conduit)	123-000152-02	910503702576
Concealed Conduit Mounting Base, M25 (metric size conduit)	123-000152-03	910503702577
Connectorized Mounting Base	123-000152-04	910503702578
Accessory		
Glare Shield	120-000153-00	910503702674
Power Supplies		
Data Enabler Pro *3/4 in / 1/2 in NPT (U.S. trade size conduit)*	106-000004-00	910503701210
Data Enabler Pro *PG21/PG13 (metric size conduit)*	106-000004-01	910503701211

Configuration and planning

Regardless of the size and complexity of your installation, the planning time you spend up front can help streamline the installation and configuration of your luminaires. Keep these points in mind as you plan your installation:

Want to display video on your structure?
You may be a lighting designer who wants to tap the power of video, a municipality that wants to turn a landmark into an icon, or a building owner/manager who wants to draw attention to your office tower, stadium, casino, or other structure. Before you dive into video, there are some initial questions you need to ask yourself, key elements you'll need to create a complete solution, and some specific technical considerations that you need to address by reading [Color Kinetics Video Guideline](#).

Configuration Calculator
Create a lighting design plan that identifies and locates all luminaires, Data Enabler Pro devices, and controllers. Use [Configuration Calculator](#) to determine how many luminaires you can install in a single run, and the maximum distances between Data Enabler Pro devices, luminaires, and controllers.

QuickPlay Pro
ArchiPoint iColor Powercore luminaires operate in 8-bit mode by default. To address luminaires, including switching between 8-bit mode and 16-bit mode download [QuickPlay Pro.](#)

Additional considerations
Determine whether to address luminaires and configure your lighting system offline or interactively. With offline configuration, you stage and configure your system off-site, prior to installation. Offline configuration can be convenient when luminaires are to be installed in multiple locations or locations with difficult access. Interactive configuration is typically performed by an experienced technician, after luminaires have been installed. The interactive method can save time, since you only connect and test your luminaires once.

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Philips Color Kinetics
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