Blast gen4
Get the best and brightest flood light
Blast gen4

The latest generation of our best-in-class flood lighting raises quality and performance even further.

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What makes a legendary luminaire withstand the test of time?

Our high-performance Blast luminaires have been synonymous with best-in-class flood lighting since the dawn of the LED lighting era.

Over the years, ColorBlast earned its reputation for uncompromising performance and unequalled reliability, becoming one of the longest-running success stories in the LED lighting industry. You'll find almost half a million Blast luminaires out in the world, bringing exceptionally versatile lighting and impressive impact to iconic structures, from the Empire State Building (New York City, USA) to Abbaye St. Victor (Marseilles, France) to the Kocatepe Mosque (Ankara, Turkey).

But Blast Powercore isn’t about its impressive past. It’s about ongoing innovation, the kind that keeps Blast at the forefront of flood lighting. That's where you’ll find the latest, most powerful, flexible Blast luminaires yet—Blast Powercore gen4.

We created Blast Powercore gen4 from the ground up based on extensive input from lighting professionals—an approach we call customer-first product development. We started by asked lighting designers and specifiers, architects, building owners, municipalities, and other lighting professionals an important question: what do you need in LED flood lighting?

We listened carefully, then explored new ways to meet their diverse needs:

- **Architects and lighting specifiers** rely on flood lighting to draw attention to intriguing aspects of a structure, new or old—“architainment” that engages the public like never before.
- **Building owners, municipalities, and other end-users** want lighting that gets attention while raising energy efficiency and lowering costs—plus reliability, even in punishing conditions.
- **Lighting designers** want a complete, high-performance lighting solution that can help them realize their unique vision—every project, no matter how extensive or complex.
- **Installers and contractors** want simplicity, from initial ordering to installation to the completed project.

The latest family of Blast luminaires brings high performance, precision control, and remarkable flexibility to today’s demanding white, color, and dynamic color applications. But it still retains the no-compromises quality and rock-solid reliability that earned Blast its unequalled reputation.

**Blast Powercore gen4 means flexibility**

Unmatched flexibility is Blast gen4’s greatest strength, enabling it to be used for flood lighting, wall washing, spot lighting, direct-view lighting, and other applications.

With Blast gen4, you can create a remarkably broad range of subtle and sophisticated lighting effects that attract a crowd—then deliver engaging, evolving experiences that keep people coming back. Transition from white light during the day to vivid color at night. Match corporate colors with remarkable accuracy. Create lighting that responds to weather conditions, current events, the changing seasons, and more. Scale from a few luminaires to thousands, all performing with exceptional consistency—as if they’re operating as one. It’s all possible with Blast gen4.

No matter how you use Blast gen4, you can rely on its rugged, compact, all-in-one design to handle constant vibration, corrosive salt winds, and water. And Blast gen4 is just part of a complete lighting solution that includes our broad and deep family of other LED luminaires, advanced Color Kinetics technologies, state-of-the-art controllers, InteRACT Landmark remote monitoring, and more.
Can one of the world’s most popular LED flood lights get even better?

Yes—the latest generation of Blast Powercore adds major enhancements to a long list of proven strengths. While its compact form factor and robust design have remained similar over the years, Blast gen4 includes significant LED innovations, custom optics, simplified electronics, and other improvements. Here are just some of the ways that Blast gen4 takes flood lighting higher—and further—with higher output, greater efficacy, and color consistency.

The iconic ring at the top of the Empire State Building spire gets its sparkle from Blast gen4 luminaires.
Find the luminaire that’s right for your project

Blast Powercore gen4 provides a remarkably broad selection of luminaires, enabling you to find the solution that helps you achieve your creative vision—and the specific goals of every project.

No matter what luminaire you choose, you get the high performance and exceptional reliability that define the entire Blast family.

With Blast Powercore gen4, you can get color and white light in a range of four-channel options or traditional RGB—or choose an all-white eW luminaire.

Choose IntelliHue options for the ultimate in high-quality white light, plus the ability to tint and tune color. Select advanced luminaires that integrate OptiField, our proprietary optical system, which delivers uniform, full-coverage light that dramatically simplifies and improves wall washing.

With Blast gen4, the choice is yours. No matter which you choose, the performance, quality, and reliability are always there.

For white light that you can tune and tint—plus dynamic color light, all in one luminaire

ColorBlast IntelliHue Powercore gen4

For white light that you can tune and tint—plus dynamic color light, all in one luminaire

ColorBlast IntelliHue Powercore gen4, OptiField

For exceptionally uniform light

IntelliHue brings high output and high CRI

ColorBlast IntelliHue Powercore gen4 delivers exceptional white light, as well as rich, saturated, color light and color-changing effects—all in the same advanced precisely controllable luminaire. Breakthrough IntelliHue technology from Color Kinetics enables ColorBlast IntelliHue gen4 to produce millions of saturated colors and pastels, as well as tunable, tunable (from 1800 K to 10,000 K) white light. It’s a combination that works well when you need a luminaire that can do it all, and give you greater control over your white light. IntelliHue achieves higher CRI—greater than 90 CRI—compared to RGBA and RGBW luminaires, ensuring high-quality white and color light.

ColorBlast IntelliHue Powercore gen4, OptiField provides the same capabilities as the core ColorBlast IntelliHue luminaire. Thanks to advanced IntelliHue technology, you get exceptional white light you can tune and tint, as well as rich, saturated, color light and color-changing effects—all in the same advanced precisely controllable luminaire.

But you also get another significant advantage—OptiField technology from Color Kinetics, which revolutionizes forward throw asymmetric optics. ColorBlast IntelliHue Powercore gen4, OptiField achieves a new level of uniformity of 4.1 (max:min) while doubling the vertical surface illuminance—making it ideal for exceptionally smooth wall washing without hotspots or banding. This remarkable uniformity reduces the number of luminaires and energy required. And luminaire rotation lets you adjust a luminaire to match your vision—depending on the desired effect, luminaire angle, and wall height.

IntelliHue luminaires expand the possible output wavelengths significantly—even when compared with traditional RGB output. And no matter what wavelength you choose, IntelliHue delivers high illuminance.

How does OptiField technology boost uniformity?

For years, the inherent conical beam shape created by traditional optical systems was a given. Light made cones. To create uniformity required careful placement of multiple overlapping luminaires. The result? Banding, hot spots, and plenty of complexity.

Our OptiField technology changes all that. Its advanced optics create a panel-shaped beam pattern that delivers uniform, full-coverage light at a level of uniformity lighting designers need to light large areas brightly and evenly. When lighting professionals see an OptiField luminaire in action, they’re amazed by the difference.

Now designers can achieve beautifully even light—and maximum impact.

### Specifications

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<th>IntelliHue</th>
<th>IntelliHue, OptiField</th>
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<td>Power consumption</td>
<td>50 W</td>
<td>50 W</td>
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<tr>
<td>Beam angles</td>
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<td>Wall Washing</td>
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<td>Lumens</td>
<td>2,012 to 2,434</td>
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Meet the Blast gen4 family

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IntelliHue brings high output and high CRI

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Now designers can achieve beautifully even light—and maximum impact.
ColorBlast lets you choose the right 4-channel solution for your application—including IntelliHue (see page 8), RGBA, or RGBW. If you need a traditional three-channel option, we offer RGB options, too.

ColorBlast Powercore gen4, RGBW luminaires add a separate white LED that creates better-quality whites than possible with traditional RGB. Choose it when you need high-quality white light and color in the same luminaire.

ColorBlast Powercore gen4, RGBA luminaires add a separate amber LED that expands the available range of colors to include warmer tones, such as rich gold, yellows, and oranges.

Blast gen4 doesn’t leave RGB behind
Not all applications require four-color luminaires. That’s why we offer Intelligent Color luminaires—the standard RGB option for intensely saturated light.

With ColorBlast Powercore gen4, RGB you get all of the strengths and advanced technology of Blast gen4 in a traditional RGB solution.

Add OptiField technology for remarkable uniformity with ColorBlast Powercore gen4, RGBW OptiField, ColorBlast Powercore gen4, RGBA OptiField, and ColorBlast Powercore gen4, RGB OptiField.

ColorBlast Powercore gen4, RGBA OptiField luminaires add a separate amber LED that delivers a range of warm colors with extremely full coverage illuminance, providing smooth, even light and subtle shading.

And you can choose ColorBlast Powercore gen4, RGB OptiField to get the remarkable uniformity enabled by our breakthrough optical system. These options are ideal for installations already using RGB luminaires, or for projects that simply don’t need four-channel capabilities.

eW Blast Powercore gen4 and eColor Blast Powercore gen4
High-intensity color and white luminaires give you even more options

Some applications only require limited color or white flood lighting. That’s why the Blast gen4 family includes eColor (Essential Color) and eW (Essential White) options.

Choose eColor Blast Powercore gen4 when you want intensely saturated solid red, green, blue, or amber light for accenting or other special applications.

And eW Blast Powercore gen4 provides a high-intensity wash of white light in four color temperatures (2700 K, 3000 K, 3500 K, and 4000 K).

Custom options expand your choices even more
Our eColor and eW luminaires are available in additional colors and color temperatures to produce the exact shade of colored or white light your project needs, from royal blue (eColor Blast gen4) to 2200 K white (eW Blast gen4), and many more.

No matter what Blast gen4 luminaire you choose, you get the flexibility of selecting an option that matches your specific needs—plus the confidence that comes from choosing a high-performance luminaire with a proven track record of reliability.

With eW Blast Powercore gen4, OptiField, you get the simplicity of a white-only luminaire with the uniform, full-coverage light created by our advanced optical system.

Meet the Blast gen4 family

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<tr>
<th>Power Consumption</th>
<th>RGBW</th>
<th>RGBW, OptiField</th>
<th>RGBA</th>
<th>RGBA, OptiField</th>
<th>RGB</th>
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<tr>
<td>Beam Angles</td>
<td>10°, 20°, 40°, 60°, 80°, 10° x 40°</td>
<td>Wall Washing</td>
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<tr>
<td>Lumens</td>
<td>1,772 to 2,162</td>
<td>1,524</td>
<td>1,532 to 1,852</td>
<td>1,227</td>
<td>1,444 to 1,795</td>
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<tr>
<th>Power Consumption</th>
<th>eW</th>
<th>eW, OptiField</th>
<th>eColor</th>
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<tr>
<td>Beam Angles</td>
<td>6°, 20°, 40°, 60°, 80°, 10° x 40°</td>
<td>Wall Washing</td>
<td>6°, 20°, 40°, 60°, 80°, 10° x 40°</td>
</tr>
<tr>
<td>Lumens</td>
<td>2,687 to 3,213</td>
<td>2,521 to 2,677</td>
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</table>
Our advanced technologies raise the bar

Color Kinetics is setting new standards for consistency and accuracy by developing advanced technologies that are integrated into our luminaires, including Blast gen4. These technologies work together to deliver the ever-escalating levels of accuracy and performance 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. The result? Higher uniformity and consistency of hue and color temperature for all our luminaires. Integrated into all Blast gen4 luminaires.

**IntelliHue**
Our advanced approach to color mixing produces high-quality white light, subtle pastels, and fully saturated colors in the same precisely controllable luminaire. All with unrivaled color accuracy across the entire range of color temperatures. Available on Blast gen4 IntelliHue luminaires.

**Chromasync**
Our advanced output optimization technology controls and boosts output while ensuring color consistency. When enabled, Chromasync ensures excellent color consistency between luminaires, without manually adjusting color points on each luminaire. And it ensures the same lumen output across all color temperatures. Integrated into all ColorBlast gen4 luminaires.

**Powercore**
Our patented approach to power output proves that simple is better. As well as faster, more efficient, and accurate. Powercore controls power output to luminaires directly from line voltage. It merges line voltage with control data and delivers both over a single standard cable—dramatically simplifying installation and lowering total system cost. Integrated into all Blast gen4 luminaires.

**OptiField**
Our proprietary optical technology rethinks beam shape to deliver beautiful light with remarkable evenness. With OptiField, our luminaires achieve unparalleled uniformity and eliminate hotspots and banding. The result of a decade of research and development, OptiField’s freeform optic creates a breakthrough rectangular beam that covers large surfaces with full, bright, even light. And OptiField can cover more surface area with fewer luminaires—simplifying installation while lowering energy use. Available on Blast gen4 OptiField luminaires.

To find out how innovative technologies within our advanced luminaires can help you do more, visit www.colorkinetics.com/Learn.
Choose Blast Powercore gen4 luminaires for higher output, greater efficacy, and color consistency. Add OptiField technology for remarkable uniformity.

Key features

Take a closer look

Choose from six light options:
- IntelliHue
- RGBW
- RGBA
- RGB
eW (Essential White)
eColor (Essential Color)

Controller compatibility
Blast Powercore gen4 works seamlessly with the complete Color Kinetics line of controllers, including ColorDial Pro, iPlayer 3, and Light System Manager—as well as third-party controllers.

Rugged form factor
The heavy-duty cast aluminium form factor meets:
- ASTM B117 standard for > 1,500 hours of corrosion resistance.
- ANSI C136.31-2010 standard with a 3G vibration rating.
- IK10 mechanical rating.

Precision dimming
eW Blast gen4 offers smooth dimming down to 1% with optional Data Enabler Pro and digital control interface.

Optional wiring compartment
Allows for proper mounting and splicing of user supplied wiring.

A full line of accessories
A wide range of accessory options lets you customize Blast gen4. In addition to the native 10° (6° for eW and eColor) lens, five different diffuser lenses can customize the luminaire to produce 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric) beam angles. Three housing color choices (black, gray, and white)—plus the option to add or combine a louver, half glare shield, full glare shield, rock guard, and mounting arms—create new aesthetic possibilities for designers and architects.

No pooling
Smart design keeps water from pooling, and keeps the luminaire safe and dry.

Controller compatibility
Blast Powercore gen4 works seamlessly with the complete Color Kinetics line of controllers, including ColorDial Pro, iPlayer 3, and Light System Manager—as well as third-party controllers.
Exceptional lighting takes more than a luminaire

To unlock the full potential of your Blast gen4 luminaires, you need the right components to power and control them. Color Kinetics completes your solution with:

**Controllers**

Our broad line of controllers brings you differing capabilities that match your specific needs, the complexity of your project, and your budget. 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 Blast gen4 luminaires operate in unison.

Because it is not subject to DMX addressing limitations, Ethernet is the preferred environment for intricate color-changing light shows. And Blast Powercore gen4 can also be used with third-party controllers.

**Power/Data Supplies**

All Blast Powercore gen4 luminaires accept either DMX or Ethernet input and 100 to 277 VAC power from Data Enabler Pro.

**Monitoring and Management**

Interact Landmark (formerly Philips ActiveSite) is the first-ever cloud-hosted connected lighting system for architectural LED lighting installations. Interact Landmark allows you to remotely monitor, manage, and maintain an installation site from anywhere in the world, using a secure web connection.
Illuminating a 17th-century sanctuary

The Zapopan Basilica and America’s Square lighting strategy, launched in July 2017, has improved the economic, touristic, and cultural development of the area. A balanced relationship between the government and citizens has helped this scalable project to boost the quality of life in the city and significantly improve the tourist experience and the city’s image. The iW Blast Powercore luminaire provides intelligent white light throughout the square.

The Zapopan Basilica (Basílica de Nuestra Señora de Zapopan) and America’s Square (Plaza de las Americas John Paul II) uses innovative lighting to create a memorable outdoor experience after dark.

<table>
<thead>
<tr>
<th>Product</th>
<th>ColorBlast Powercore gen4, RGB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details</td>
<td>6 Blast gen4 luminaires in each metal shroud</td>
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<table>
<thead>
<tr>
<th>Products</th>
<th>iW Blast Powercore, iW Graze MX Powercore, and C-Splash 2</th>
</tr>
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<tbody>
<tr>
<td>Details</td>
<td>iW Blast luminaires provide intelligent white light throughout the square, iW Graze MX luminaires highlight architectural features, and C-Splash 2 luminaires provide vibrant, changing colors in the square’s fountains</td>
</tr>
</tbody>
</table>
Transforming a historic bridge with light and motion

Taking innovative light shows higher in Berlin

The Big Four Bridge—which connects Louisville, Kentucky and Jeffersonville, Indiana is much more than a bridge. It’s also a pedestrian walkway, bicycle path, art installation, and popular attraction. Central to the bridge’s success is dynamic color light from Color Kinetics. ColorBlast Powercore luminaires illuminate the steel structure with dazzling light, washing the bridge every night with brilliant hues of slowly shifting colors. And the city of Louisville can customize the lighting for holidays and civic events.

The Forum is a roofed public square that comes alive at night with fascinating, ever-changing light shows. The Color Kinetics lighting solution that enables these color-changing light shows combines ColorBlast Powercore and ColorReach Powercore luminaires in one integrated, cutting-edge solution. Powerful and flexible, these luminaires cover each individual, sail-shaped element of The Forum with a choice of more than 16 million vibrant colors—while cutting energy consumption by more than 70 percent.

The Sony Center is an international commercial, communication, and cultural hub in Berlin, Germany, that features a prominent architectural element.

### Products
- ColorBlast Powercore and ColorReach Powercore

### Details
- Luminaires were individually positioned to achieve uniform illumination to each sail-shaped element.

### Products
- ColorBlast Powercore and ColorBurst Powercore

### Details
- ColorBurst Powercore luminaires (14°, 23° beam angles) were mounted to the steel structure under the arches and along the deck. ColorBlast Powercore luminaires (23°) were placed inside hollow beams to provide stunning contrast.

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**Photography:** Alexander Wackher Licht und Mediensysteme GmbH

**Photography:** Darius Kuzmickas
Updating one of England’s largest, best-known entertainment venues

Eventim Apollo (previously Hammersmith Apollo) is a popular entertainment venue in West London, England, with a long, illustrious past—hosting diverse entertainers from Duke Ellington to David Bowie.

To create a stunning visual experience for present-day visitors, lighting designers turned to Color Kinetics ColorBlast Powercore, ColorBurst Compact Powercore, and ColorReach Powercore luminaires. These advanced LED luminaires work together to bring rich, glowing color light to the building’s façade—including its bold columns and distinct marquee—while preserving its original character.

Creating pylons of light that welcome travelers

LAX is one of the most high-traffic airports in the world. The 61 million travelers leaving or arriving in Los Angeles each year see the airport’s iconic pylons, which create visual impact and brand the airport.

Inside the pylons, you’ll find 200 ColorBlast Powercore gen4 luminaires, which backlight the frosted-glass panels. ColorBlast luminaires can deliver more than 16 million colors at the push of a button, providing illumination as colorful and dynamic as the city itself—all while reducing energy consumption and maintenance significantly.

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Blast gen4 specifications and information

Specifications and information

Measurements for 10° native beam angle shown (6° for eW). Additional beam angle measurements can be found on the respective Blast Powercore gen4 product pages.

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<thead>
<tr>
<th>Products</th>
<th>Power consumption</th>
<th>Lumens</th>
<th>Efficacy lm/W</th>
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<td>50 W</td>
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<td>50 W</td>
<td>2,687 to 3,213</td>
<td>55.4 to 67.4</td>
<td>81 to 84</td>
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<td>eW Blast Powercore gen4, OptiField</td>
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<td>2,521 to 2,677</td>
<td>52.7 to 55.8</td>
<td>81 to 84</td>
</tr>
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</table>

**General information**

**Beam Angles**
- Wall Washing (Optifield): 10° native (6° native for eW and eColor)
- 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric)

**LED Channels**
- IntelliHue—Red/Green/Blue/Mint White
- RGBW—Red/Green/Blue/White
- RGBA—Red/Green/Blue/Amber
- RGB—Red/Green/Blue
- eW—2700 K, 3000 K, 3500 K, or 4000 K
- eColor—Red, Green, Blue, or Amber

**Input Voltage**
- 100 to 277 VAC, auto-ranging, 50/60 Hz

**Housing Material**
- Die-cast aluminium, powder-coated finish

**Lens**
- Clear tempered glass

**Vibration Resistance†**
- Complies with ANSI C136.31, 3G

**Mechanical Impact**
- IK10

**Corrosion Resistance**
- Complies with ASTM B117 standard for > 1,500 hours

**Approvals**
- UL/cUL, FCC Class A, FCC Class B, CE, PSE, CQC, RCM, EAC, UA

**Environment**
- Dry/Damp/Wet Location, IP66

**Weight**
- 3.9 kg (8.2 lb)

**Dimensions**
- 183.7 x 337.8 x 171.2 mm (7.2 x 13.2 x 6.74 in)

† When mounting to a junction box, the Color Kinetics wiring compartment accessory must be used to maintain a 3G vibration rating.

**For further information**
Blast gen4 is available in six different light options, and three housing colors. It can be fitted with an array of accessories specifically designed for the luminaire family. Complete details of every family, including installation instructions, specification sheets, .ies files, and product drawings, can be found on the respective product pages.

**Accessories**
Accessory options let you customize Blast gen4. Specification sheets and product drawings can be found on the respective product pages.

If you don’t see what you need, a wide range of custom configurations are available.
Blast gen4 Product Guide

**Dimensions**

**Blast Powercore gen4**

![Diagram of Blast Powercore gen4](image)

**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:

- **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.

- **Blast Powercore gen4 luminaires** operate in 8-bit mode by default. To address luminaires, including switching between 8-bit mode and 16-bit mode, download **QuickPlay Pro**.

- **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.

**Accessories**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-000185-01</td>
<td>Trim Ring, Black (Required for mounting spread lens)</td>
</tr>
<tr>
<td>120-000185-15</td>
<td>Trim Ring, Gray (Required for mounting spread lens)</td>
</tr>
<tr>
<td>120-000185-20</td>
<td>Trim Ring, White (Required for mounting spread lens)</td>
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<tr>
<td>120-000185-04</td>
<td>Louver, Black</td>
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<td>120-000185-17</td>
<td>Louver, Gray</td>
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<tr>
<td>120-000185-09</td>
<td>Louver, White</td>
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<tr>
<td>120-000185-18</td>
<td>Rock Guard, Black</td>
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<tr>
<td>120-000185-13</td>
<td>Rock Guard, Gray</td>
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<tr>
<td>120-000185-06</td>
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<tr>
<td>120-000185-14</td>
<td>Full Glare Shield, Black</td>
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<td>120-000185-19</td>
<td>Full Glare Shield, Gray</td>
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<tr>
<td>120-000185-15</td>
<td>Full Glare Shield, White</td>
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<tr>
<td>120-000185-02</td>
<td>20° Spread lens</td>
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<tr>
<td>120-000185-08</td>
<td>40° Spread lens</td>
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<td>120-000185-09</td>
<td>60° Spread lens</td>
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<td>120-000185-10</td>
<td>80° Spread lens</td>
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<tr>
<td>120-000185-11</td>
<td>10° x 40° Asymmetric Spread lens</td>
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<td>106-00011-00</td>
<td>Wiring Compartment UL/cUL, Black</td>
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<tr>
<td>106-00011-01</td>
<td>Wiring Compartment UL/cUL, Gray</td>
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<tr>
<td>106-00011-02</td>
<td>Wiring Compartment UL/cUL, White</td>
</tr>
<tr>
<td>106-00011-11</td>
<td>Power Supplies Data Enabler Pro 3/4 in / 1/2 in NPT (U.S. trade size conduit)</td>
</tr>
<tr>
<td>106-00011-14</td>
<td>Power Supplies Data Enabler Pro PG21/PG13 (Metric size conduit)</td>
</tr>
</tbody>
</table>

**Color Kinetics**

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