



eW Blast Powercore gen4 Forward Throw Asymmetric

Customizable forward throw asymmetric exterior wash luminaire with solid white light

PHILIPS



eW Blast Powercore gen4, Forward Throw Asymmetric

Customizable forward throw asymmetric exterior wash luminaire with solid white light

eW Blast Powercore gen4, Forward Throw Asymmetric high-performance LED luminaires provide uniform lighting across large surfaces. eW Blast Powercore gen4, FTA increases application efficiency by directing more light on a specific target and offers a range of accessories that allow for customization, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminum housing.

- Uniform illumination—eW Blast Powercore gen4, FTA delivers a uniformity ratio of less than 4:1 on a 6 m (20 ft) wall with a 1 m (3 ft) setback.
- Precise control of light—Asymmetric optic design provides precise control of light and delivers more illumination with higher uniformity at a lower power than comparable fluorescent asymmetric reflector solutions.
- Design flexibility—eW Blast Powercore gen4, FTA is designed to adapt to its surroundings regardless of the wall height, setback, or spacing of an installation.
- Expands customization with a range of new Philips accessory options. Three housing color choices (black, gray, and white)—plus the option to add or combine a rock guard with either a full glare shield or a half glare shield—create new aesthetic possibilities for designers and architects.
- Meets ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating.
- Integrates patented Powercore technology that controls power output to luminaires directly from line voltage—rapidly, efficiently, and accurately.
- The Philips Color Kinetics Data Enabler Pro merges line voltage with control data and delivers them to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Universal power input range of 100 – 277 VAC.
- Precision Dimming—Smooth dimming down to 1% with optional Data Enabler Pro and digital control interface.
- Works seamlessly with the Philips Color Kinetics full range of controllers, including Light System Manager, Video System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro—as well as third-party controllers.



Outdoor Rated

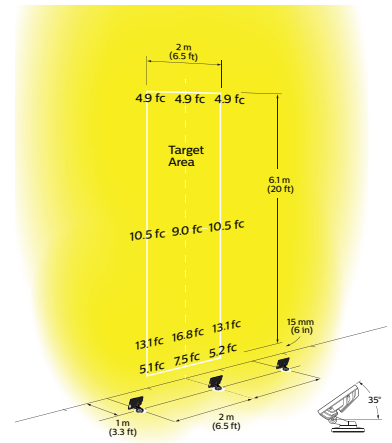
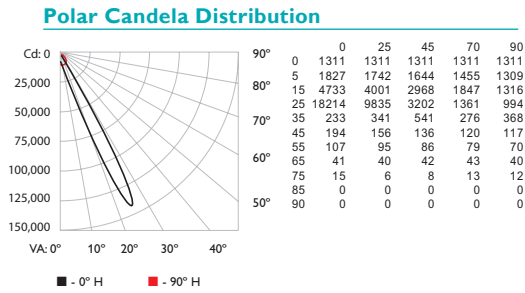
Fully sealed for maximum fixture life and IP66 rated for outdoor applications, eW Blast Powercore gen4, FTA meets or exceeds specifications for use in wet locations. Rugged, die-cast aluminum housing is available in white, gray, or black powder-coated finish.

Photometrics

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.philipscolorkinetics.com/support/ies.

eW Blast Powercore gen4, FTA 3000 K

Lumens	2521
Efficacy	52.7
CRI	81
Target Area Uniformity	3.3:1

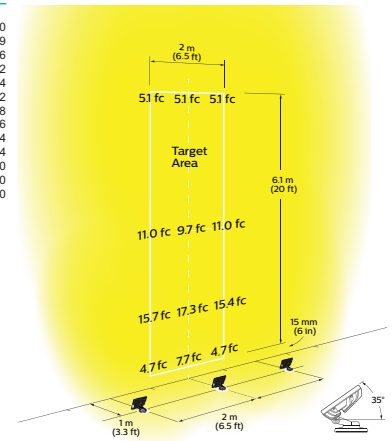
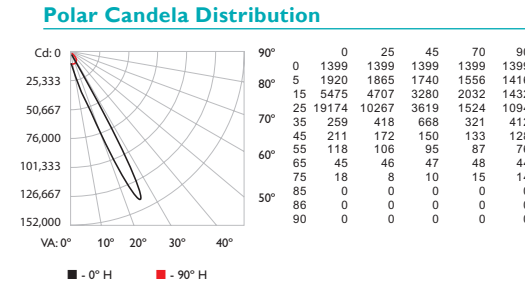


Zonal Lumen

Zone	Lumens	% Luminaire
0-30	2025.7	78.1%
0-40	2315.8	89.3%
0-60	2530.2	97.6%
60-90	62.7	2.4%
70-100	15.0	0.6%
90-120	0.0	0.0%
0-90	2593.0	100.0%
90-180	0.0	0.0%
0-180	2593.0	100.0%

eW Blast Powercore gen4, FTA 4000 K

Lumens	2677
Efficacy	55.8
CRI	84
Target Area Uniformity	3.7:1



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	2025.7	78.10%
0-40	2315.8	89.30%
0-60	2530.2	97.60%
60-90	62.7	2.40%
70-100	15.0	0.60%
90-120	0.0	0%
0-90	2593.0	100%

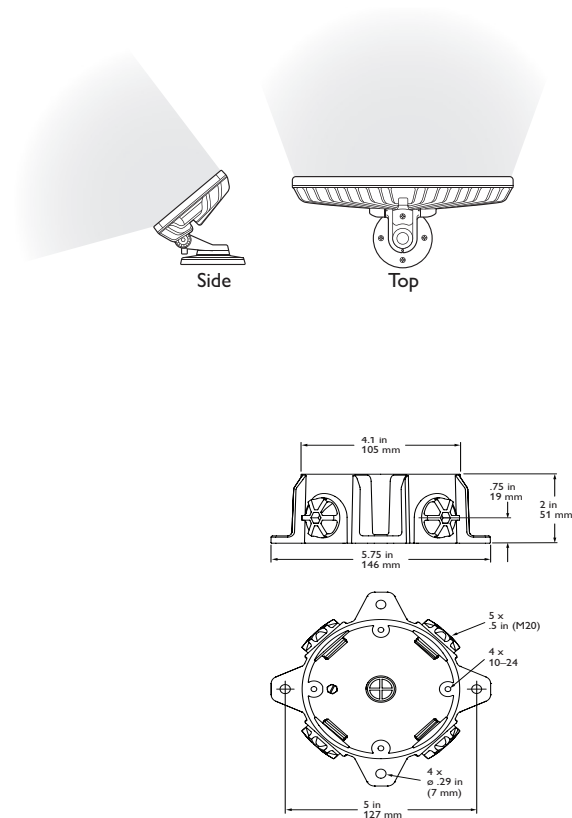
For lux multiply fc by 10.7

eW Blast Powercore gen4, FTA Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Color Temperature*	Lumens	Efficacy (lm/W)	CRI	Target Area Uniformity
3000 K	2521	52.7	81	3.3:1
4000 K	2677	55.8	84	3.7:1

Item	Specification*	Details
Output	Effective Projected Area (EPA)	0.068 m ² (0.732 ft ²)
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50/60 Hz via Data Enabler Pro
	Power Consumption	50 W maximum at full output, steady state
	Power Factor	0.9 @ 120 VAC, 0.85 @ 277 VAC
Control		On/Off or Precision Dimming by 4 conductor cable & DE Pro
Physical	Dimensions (Height x Width x Depth)	185 x 338 x 171 mm (7.3 x 13.3 x 6.75 in)
	Weight	3.9 kg (8.2 lb)
	Housing	Die-cast aluminium, white, black, or gray powder-coated finish
	Lens	Clear tempered glass
	Fixture Connections	1.8 m (6 ft) combined power data whip
	Temperature Ranges	-40° – 50° C (-40° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/
Certification and Safety	Humidity	0 – 95%, non-condensing
	Certification	UL/cUL, FCC Class B, CE, PSE, CQC, RCM, EAC, UA
	Environment	Dry/Damp/Wet Location, IP66
	Corrosion Resistance	ASTM B117 > 1,500 hours
	Vibration Resistance	ANSI C136.31-2010 3G
	Mechanical Impact	IK10



Lumen Maintenance†

Threshold§	Ambient Temperature	Reported¶	Calculated
L90	@ 25°C	28,000 hrs	28,000 hrs
	@ 50°C	27,000 hrs	27,000 hrs
L70	@ 25°C	51,000 hrs	84,000 hrs
	@ 50°C	51,000 hrs	83,000 hrs
L50	@ 25°C	51,000 hrs	>100,000 hrs
	@ 50°C	51,000 hrs	>100,000 hrs

O P T I B I N | **POWERCORE**
CK TECHNOLOGY | CK TECHNOLOGY

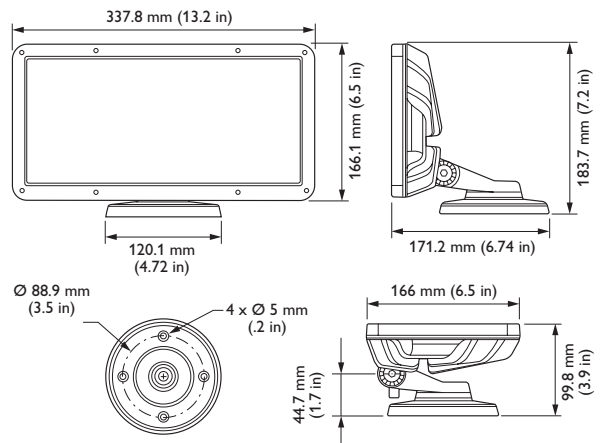


* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

† Lumen measurement complies with IES LM-79-08 testing procedures.

§ L_{xx} = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B50, or the median value where 50% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.



Fixtures and Data Enabler Pro

Included in the box

eW Blast Powercore gen4, FTA fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
5 mm hex wrench
2.5 mm hex wrench
Installation Instructions

Item	Type	Housing Color	Item Number	Philips 12NC
eW Blast Powercore gen4, FTA	2700 K*	White	523-000100-12	912400134971
		Black	523-000100-13	912400134969
		Gray	523-000100-20	912400134965
	3000 K	White	523-000100-27	912400135499
		Black	523-000100-28	912400135501
		Gray	523-000100-29	912400135502
	3500 K*	White	523-000100-33	912400135506
		Black	523-000100-34	912400135507
		Gray	523-000100-35	912400135508
	4000 K	White	523-000100-16	912400134961
		Black	523-000100-17	912400134962
		Gray	523-000100-21	912400134966

*Other CCTs and associated photometry available upon request. Consult factory.
Use Item Number when ordering in North America.

Data Enabler

Item	Style	Item Number	Philips 12NC
Data Enabler Pro	3/4 in / 1/2 in NPT (US trade size conduit)	106-000004-00	910503701210
	PG21/PG13 (metric size conduit)	106-000004-01	910503701211

Use Item Number when ordering in North America.

Accessories

Designed specifically for the family of Blast fixtures, accessories install directly to the fixture to provide additional options for controlling and dispersing light.

* For complete instructions on how to install the accessories, refer to the Accessory Installation Instructions at: www.colorkinetics.com/lsl/essentialwhite/eW-Blast-Powercore-gen4-FTA/

Item	Item Number	Philips 12NC	Color	
Rock Guard	120-000185-06	912400130342	White	
	120-000185-07	912400130343	Black	
	120-000185-18	912400133533	Gray	
Half Glare Shield	120-000185-13	912400130349	White	
	120-000185-14	912400130350	Black	
	120-000185-19	912400133534	Gray	
Full Glare Shield	120-000185-02	912400130338	White	
	120-000185-03	912400130339	Black	
	120-000185-16	912400133531	Gray	

Use Item Number when ordering in North America.

Wiring Compartment

Item	Housing Color	Item Number	Philips 12NC
Wiring Compartment UL/cUL	Black	106-000011-30	910503704147
	White	106-000011-31	910503704148
	Gray	106-000011-32	910503704149
Wiring Compartment CE	Black	106-000011-40	910503703275
	White	106-000011-41	910503703276
	Gray	106-000011-42	910503703277

Use Item Number when ordering in North America.

✱ Refer to the eW Blast Powercore gen4, FTA Installation Instructions at www.colorkinetics.com/essentialwhite/eW-Blast-Powercore-gen4-FTA/ for specific warning and caution statements.

✱ To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Philips Color Kinetics Application Engineering Services at support@colorkinetics.com.

✱ These diagrams provide general guidelines for positioning eW Blast Powercore gen4, FTA luminaires with matte white surfaces. Specific dimensions and positioning depend on the details of your installation.

Installation

eW Blast Powercore gen4, FTA is an LED wash light providing high-intensity white light while consuming less energy than comparable non-LED fixtures. Powercore, which delivers line voltage directly to the fixture, eases installation by eliminating the need for external power supplies or special wiring.

Owner/User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Blast Powercore gen4, FTA fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

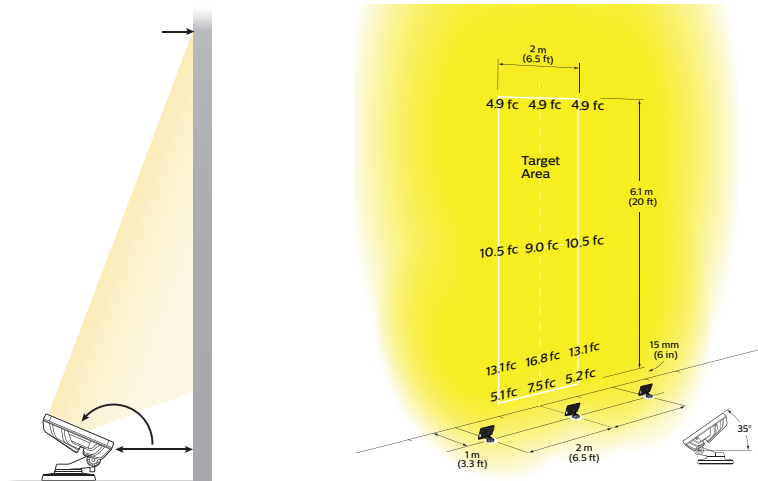
Installing in Damp or Wet Locations

When installing in damp or wet locations, it is good practice to seal all fixtures and junction boxes with electronics-grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in any wiring compartments, cables, or other electrical parts. You must use suitable outdoor-rated junction boxes when installing in damp or wet locations. Additionally, you must use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes.

Create a Layout Plan

Regardless of the size and complexity of your installation, the time you spend up front can help minimize installation and configuration issues later. Keep these suggestions in mind as you plan your installation:

1. On an architectural diagram or other diagram that shows the physical layout of the installation, create a layout map that specifies the appropriate location of the light luminaires in relation to each other, and to any dimmer switches, wall switches, and line power sources.
2. Using the luminaire's power consumption and efficiency ratings, the lighting designer or architect should calculate the dimensions of the installation space to ensure that operating temperatures remain within safe levels. For consistent results, it is recommended the luminaires should have up to a 1 m (3 ft) setback on a 6 m (20 ft) wall. We strongly recommend creating dimensional models and mockups prior to installation.



3. eW Blast Powercore gen4 FTA luminaires can be installed in series with a recommended spacing of up to 2m (6.5 ft) between luminaires. Each luminaire is connected to a third-party junction box using the 1.8 m (6 ft) hardwire cable.

Planning a Precision Dimming Installation

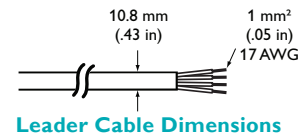
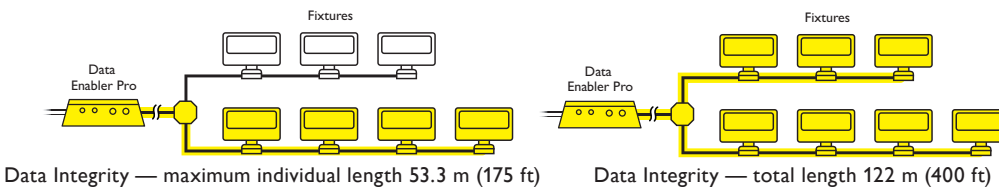
eW Blast Powercore gen4, FTA can be dimmed using a Data Enabler Pro setup. If you plan on precision dimming eW Blast Powercore gen4, FTA, you will need to plan out your installation.

1. Determine the appropriate location of each Data Enabler Pro in relation to the light fixtures, and of the light fixtures in relation to each other.

eW Blast Powercore gen4, FTA fixtures can be installed in series or in parallel (wired to a common junction box). The maximum number of fixtures each Data Enabler Pro can support depends on specific configuration details such as fixture spacing, circuit size, line voltage, and method of connection (in series or in parallel). For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.

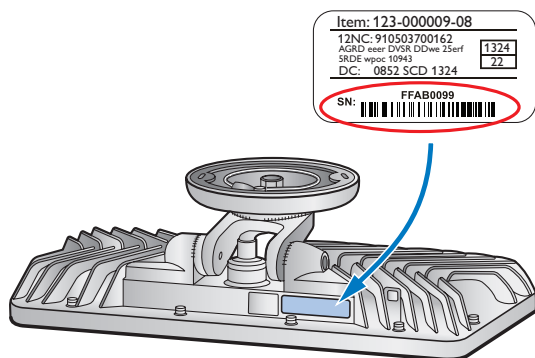
In addition to maximum fixture run lengths determined by the electrical configuration, each Data Enabler Pro imposes maximum run lengths based on data integrity. To ensure data integrity, maximum individual run length should not exceed 53.3 m (175 ft), and the total cable length per Data Enabler Pro should not exceed 122 m (400 ft).

** To streamline the configuration of complex installations, record the IP address (Ethernet) and location of each Data Enabler Pro.*



2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, Data Enabler Pro devices, fixtures, and cables.

- Each eW Blast Powercore gen4, FTA fixture comes pre-programmed with a unique serial number. As you unpack the fixtures, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.



- Assign each fixture to a position in the lighting design plan.
- To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each light fixture's housing.

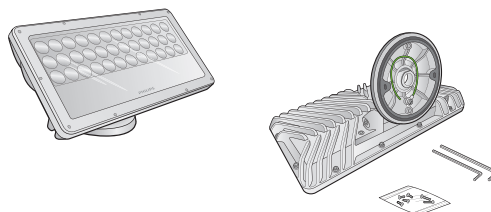
Assemble Additional Parts and Tools

Make sure all additional parts and tools are available, including:

- The provided 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
- The provided 5 mm and 2.5 mm hex key wrenches
- In the US, one 102 mm (4 in) round US electrical junction box per fixture, rated for your application, with 89 mm (3.5 in) center-to-center screw holes for attaching the fixture's base. (Refer to the junction box manufacturer's literature for additional items required for mounting or sealing.)
- A sufficient length of 4 mm² (12 AWG), 4-conductor stranded copper wire
- Conduit as required
- Electronics-grade room temperature vulcanizing (RTV) silicone sealant as required

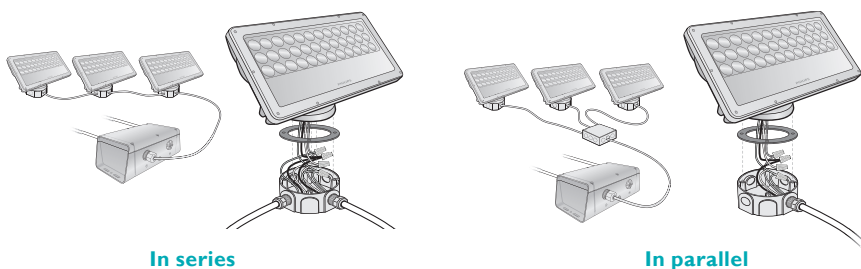
Included in the box

eW Blast Powercore gen4, FTA fixture
(2) 8-32 stainless steel screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
5 mm hex wrench
2.5 mm hex wrench
Installation Instructions



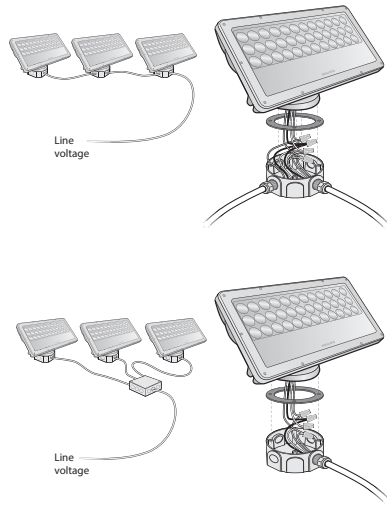
Install the Fixtures

eW Blast Powercore gen4, FTA fixtures can be installed in series or in parallel (wired to a common junction box). Each fixture requires a dedicated junction box for mounting. Ensure that all junction boxes are suitable for the environment and that all wiring between junction boxes complies with local codes.



* In locations where US junction boxes are not available, you can mount fixtures directly to a wall or other mounting surface. For help with your specific installation, consult your local support organization, or contact Application Engineering Services at support@colorkinetics.com.

✳ When installing eW Blast Powercore gen4, FTA fixtures, the input earth ground, canopy earth ground, and fixture cable earth ground must all be connected together.



⚠ Wiring between junction boxes must comply with local codes.

Standard ON/OFF Control Installation

Make sure the power is OFF before mounting and connecting eW Blast Powercore gen4, FTA fixtures.

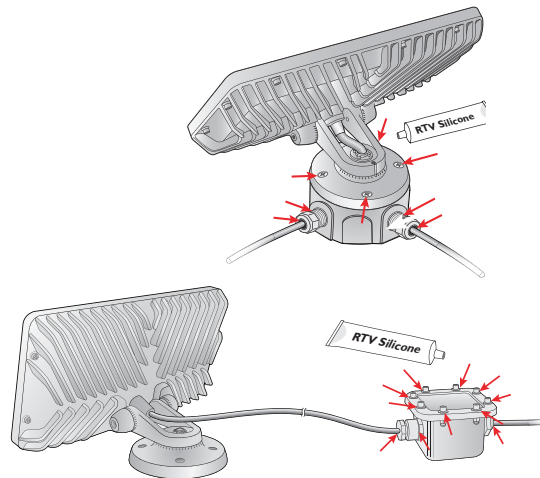
1. Mount junction boxes in accordance with the lighting design plan. Each fixture is designed for mounting in a 102 mm (4 in) round US electrical junction box, rated for your application, with 89 mm (3.5 in) center-to-center screw holes for attaching the fixture's base.

Fixtures are supplied with a grounding wire attached to the fixture's base (canopy). The canopy ground wire can be attached to a grounding point in the junction box, or connected with the ground in the fixture cable.

2. If installing fixtures in a series, pull 3-conductor copper wire between each junction box in the series.

If installing fixtures in parallel, pull 3-conductor copper wire from a common junction box to each fixture's junction box.

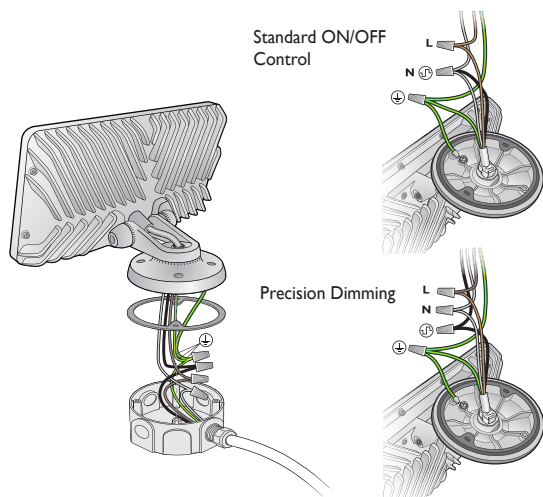
3. If installing in a damp or wet location, seal all junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.



Precision Dimming Installation

For Precision Dimming using a Data Enabler Pro, the maximum cable run from a Data Enabler Pro to any individual eW Blast Powercore gen4, FTA fixture is 53 m (175 ft). When installing in parallel, the total cable length cannot exceed 122 m (400 ft).

1. Install all Data Enabler Pro devices, including any interfaces with controllers. Data Enabler Pro devices and external controllers send power and control signals to the fixtures over the single fixture cable. Additional cabling is required to connect fixtures together in series.
2. Verify that all additional supporting equipment (switches, controllers) is in place.
3. Trim the cable from the fixture to fit in the junction box, leaving enough cable to make wiring connections.
4. Insert the fixture cable and the canopy ground wire through the attached gasket ring before making wire connections. When attaching the fixture to the junction box, ensure that the gasket is compressed evenly.

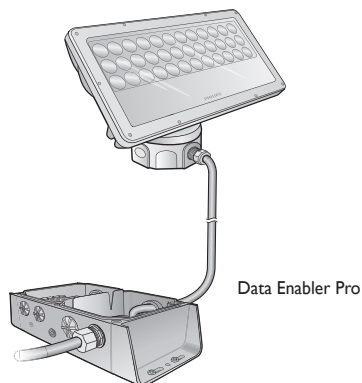


5. Use wire connectors to connect line, neutral, ground, and data.

If installing in series, connect the leader cable from each fixture to the fixture's junction box.

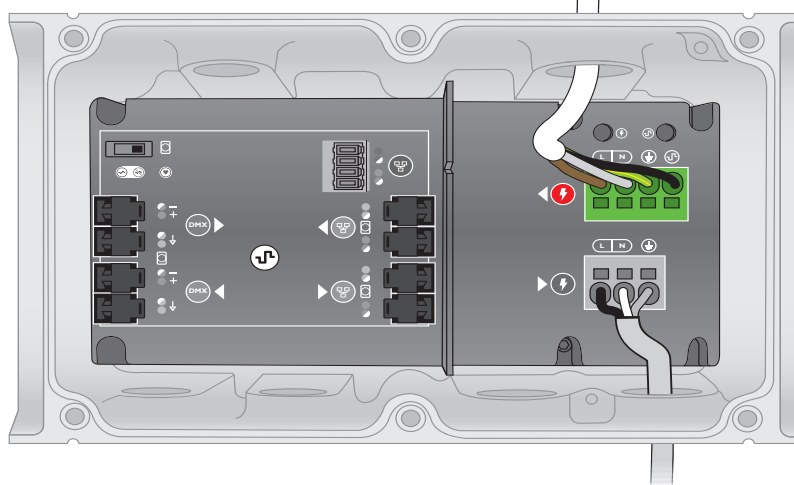
If installing in parallel, connect the wires from each fixture to the lead wire from the line power source in the common junction box.

6. Attach the canopy ground wire to a grounding point in the junction box, or combine it with the fixture cable ground with a wire nut.
7. Tuck wire connections into the junction box, and use the provided screws to attach the fixture to the junction box.
8. Run the wiring from the first junction box in the series to the Data Enabler Pro, or, if installing in parallel, run the wiring from the common junction box to the Data Enabler Pro. Secure connections within the Data Enabler Pro housing.



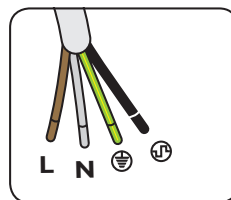
9. Secure the Data Enabler Pro cover. If installing in a wet or damp location, seal the Data Enabler Pro with electronics-grade RTV silicone sealant.

Power/data output to fixtures



Mains voltage input

✳ Refer to the Data Enabler Pro Product Guide for comprehensive installation and configuration instructions. You can view or download the guide from www.colorkinetics.com/lis/pds/dataenablerpro

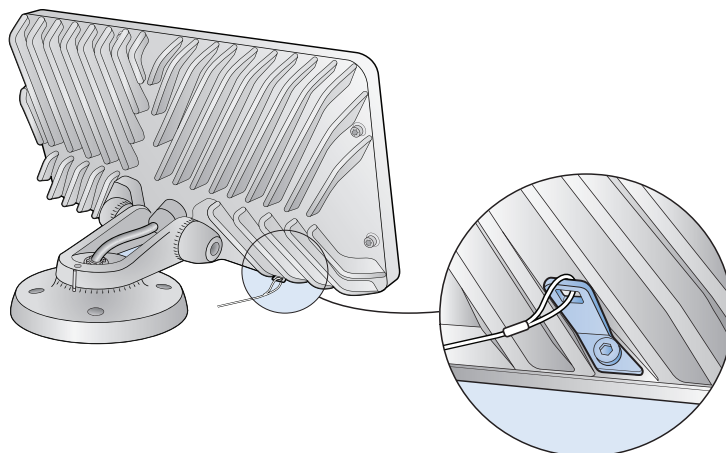


Safety cable minimum requirements

Material	304 or 316 Stainless Steel
Size	4 mm (5/32 in) nominal diameter. Minimum break load must be greater than 1,089 kg (2,400 lb).
Construction	7 x 7 (49 wires) preformed stranded

Attach Safety Cable (Optional)

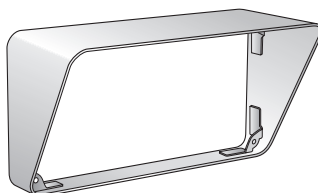
Each eW Blast Powercore gen4, FTA fixture is designed for use with a safety cable to tether it to a secure anchor point. When dictated by local or state code or advised by a structural engineer, attach a safety cable to the bracket on the back of the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.



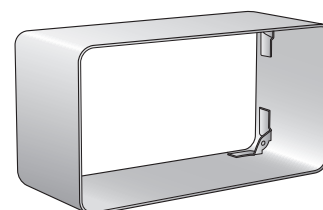
Attach Accessories (Optional)

Accessories can be installed to add extra protection to the fixture in outdoor environments.

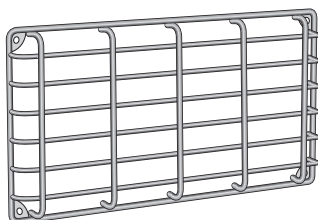
* For complete instructions on how to install the accessories, refer to the *Accessory Installation Instructions* at www.colorkinetics.com/ls/essentialwhite/eW-Blast-Powercore-gen4-FTA/



Glare Shield - Half



Glare Shield - Full




Rock Guard

Address and Configure the Fixtures (for Precision Dimming Only)

Make sure the power is ON before addressing and configuring fixtures.

You address and configure eW Blast Powercore gen4, FTA fixtures using QuickPlay Pro addressing and configuration software, which you can download for free from www.colorkinetics.com/support/addressing/.

- In Ethernet installations, you can address and configure your fixtures using QuickPlay Pro with a computer connected to your lighting installation's network. QuickPlay Pro can automatically discover all of your fixtures, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure your fixtures using QuickPlay Pro with iPlayer 3 or SmartJack Pro. You can manually enter fixture serial numbers, or you can import a spreadsheet listing each fixture's serial number and starting DMX address.

 You will need the layout grid that you created when you recorded the serial numbers of the light fixtures in your installation.

Addressing eW Blast Powercore gen4, FTA Fixtures

eW Blast Powercore gen4, FTA fixtures operate in 8-bit mode by default. You can configure eW Blast Powercore gen4, FTA to operate in 16-bit mode, which increases fixture resolution for smoother dimming.

eW Blast Powercore gen4, FTA fixtures come factory-addressed with a starting DMX address of 1. For lighting designs where fixtures work in unison, all fixtures can be assigned the same starting DMX address. Changes to the default starting DMX address are not necessary, but if lights were previously readdressed for use in other installations, you must reset them. For light show designs where different fixtures have different intensities, you must assign unique DMX addresses to your fixtures and sort them in a useful order.

Setting Fixture Dimming Curve

Dimming curves describe how slowly or quickly a fixture dims at different levels of input. For finer control, eW Blast Powercore gen4, FTA offers three different dimming curves for use in different situations and applications:


- **Normal**
The non-linear (gamma) dimming curve used in most Philips Color Kinetics LED lighting fixtures. eW Blast Powercore gen4, FTA fixtures use the normal dimming curve by default.
- **Linear**
A dimming curve with a linear relationship between DMX input and light output.
- **Tungsten**
A non-linear dimming curve that emulates the dimming curve of incandescent lamps on a DMX dimmer. This curve offers the most control at low intensities.

Setting LED Transition Speed

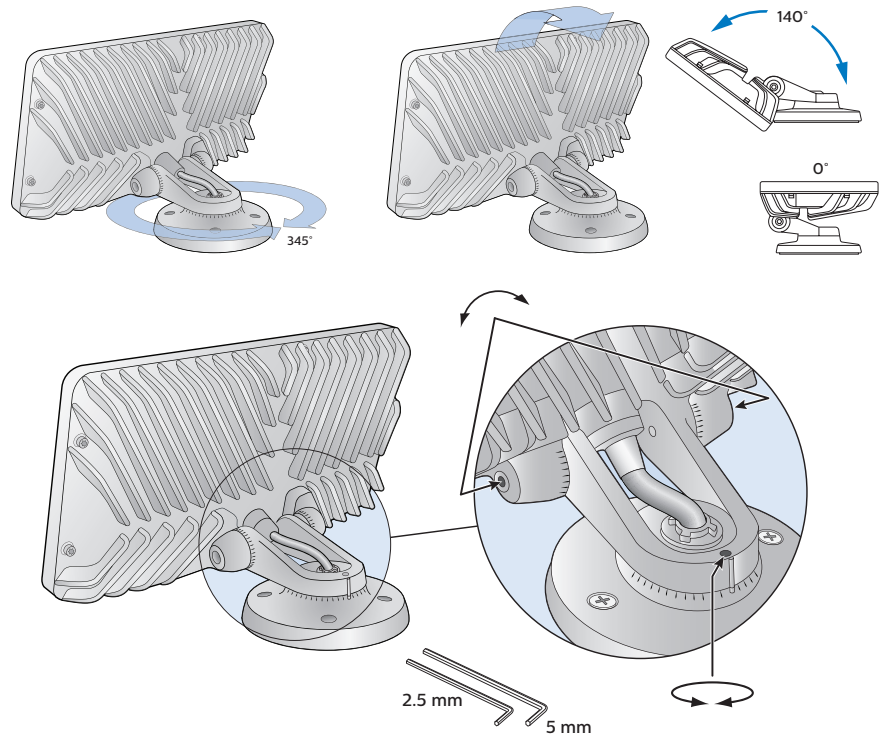
Normally, LEDs react to DMX or other control data instantaneously. In some cases, you may want to slow down the reaction speed to achieve smoother transitions when the intensity of the LED channel changes. eW Blast Powercore gen4, FTA offers five levels of decreasing LED transition speed, from Fast (instant snap changes) to Delay-4 (slowest transition speed).

Aim and Lock the Fixtures

Make sure the power is ON before aiming and locking the fixtures.

 Do not look directly into the fixture when aiming and locking.

To aim the fixtures, rotate the base and tilt the beam as desired. Using the appropriate hex wrench, lock the fixture in place by tightening three set screws—two set screws lock tilt, and a single screw locks rotation.



Copyright © 2017 Philips Lighting Holding B.V. All rights reserved. Chromacore, Chromasic, CK, the CK logo, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorBlaze, ColorBurst, ColorGraze, ColorPlay, ColorReach, iV Reach, eV Reach, DiMand, EssentialWhite, EvenBalance, eV, iColor, iColor Cove, IntelliWhite, iV, iPlayer, Optibin, Powercore, and PureGlow are either registered trademarks or trademarks of Philips Lighting Holding B.V. in the United States and/or other countries. All other brand or product names are trademarks or registered trademarks of their respective owners. Due to continuous improvements and innovations, specifications may change without notice.



Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.385.5742
Tel 617.423.9999
Fax 617.423.9998
www.philips.com/colorkinetics