iW Blast Powercore

High-performance white wash light with variable color temperature

PHILIPS

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High-performance white wash light with variable color temperature

iW® Blast Powercore is an intelligent, high-performance white-light LED fixture that goes where white lights have never gone before. With an output of over 1700 lumens and superior fixture-to-fixture color consistency, iW Blast Powercore is ideal for situations in which lamp maintenance may be difficult or impossible. Rated for both indoor and outdoor use, iW Blast Powercore offers color temperatures ranging from a warm 2,700 K to a cool 6,500 K, along with the improved operational efficiency, simplified installation, and cost-effectiveness of Powercore® technology, all in a rugged die-cast aluminum housing. Low-profile mounting canopy, rotating mounting bracket, and locking fixture rotation offer unprecedented versatility of light positioning.

- Integrates patented Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to iW Blast Powercore fixtures directly from line voltage. The Philips Data Enabler Pro merges line voltage with control data and delivers them to the fixture over a single standard wire, dramatically simplifying installation and lowering total system cost.
- Supports new applications for white light— Long useful source life (90,000 hours at 50% lumen maintenance) significantly reduces or eliminates maintenance problems, allowing the use of white lighting in spaces where lamp maintenance may be difficult or impossible — for instance, to illuminate building features from positions accessible only by crane.
- Wide range of color temperature and brightness — Channels of warm white and cool white LEDs produce color temperatures ranging from 2700 K to 6500 K. Fixture brightness can be adjusted while varying or maintaining constant color temperature.
- High-intensity, energy-efficient white light — iW Blast Powercore offers high-intensity illumination, with an output of over 1700 lumens, at a significantly lower power draw than comparable ceramic metal halide light sources.
- Versatile lighting options — A 23° frosted glass lens for a soft-edge beam and a 10° clear lens for extended light projection support a wide range of white lighting applications. Rugged, die-cast aluminum housing is available in white or black.
- Flexible light positioning — Locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets you quickly aim the fixture without special tools.
- Easy installation — Fixtures can be mounted to a junction box on a wall, ceiling, or floor for maximum flexibility. The canopy base allows for after-installation rotation without precise junction box positioning.
- Universal power input range — iW Blast Powercore accepts a universal power input range of 100 – 240 VAC, allowing long fixture runs and consistent installation in any location around the world.

Outdoor Rated
Fully sealed for maximum fixture life, iW Blast Powercore fixtures meet or exceed specifications for use in wet locations.

Planning Your Installation

iW Blast Powercore is designed for wall washing and floodlighting applications which require variable brightness and color temperature. With a low-profile design, IP66-rated housing, high-intensity output of over 1700 lumens, long-life LEDs, and ease of installation and maintenance, iW Blast Powercore is ideal for interior and exterior installations where bulb maintenance may be difficult or impossible.

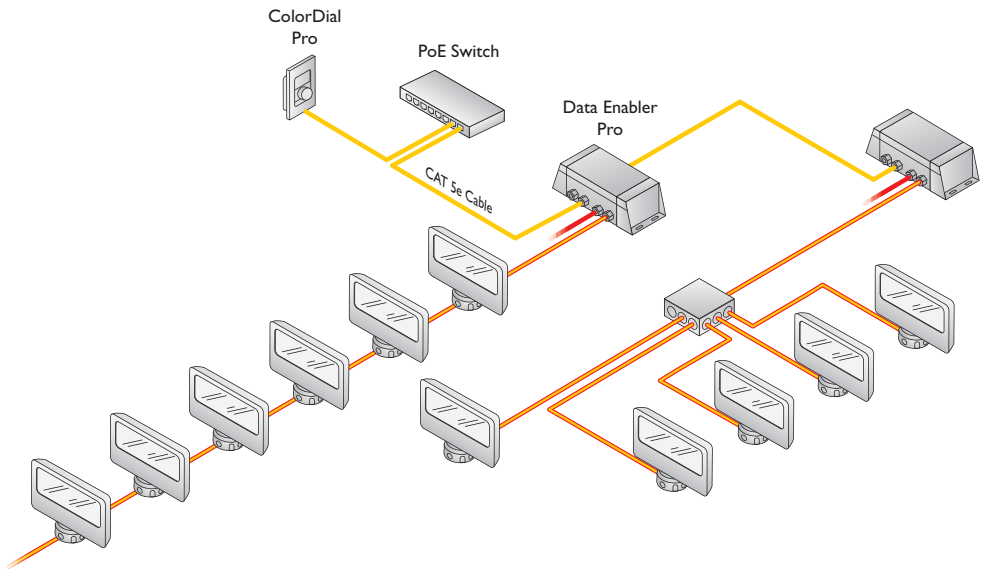
How Different Color Temperatures Affect the Appearance of Objects

Adjusting the brightness and color temperature of iW Blast Powercore fixtures, from warm (more yellow / red) to cool (more blue), alters the emotional effect of a space, and can dramatically affect the appearance of objects on displays in stores, galleries, and museums. Selecting the right color temperature matches light source to environment, positively influences buyer behavior, and increases productivity in the workplace.

Typical iW Blast Powercore Installations

iW Blast Powercore fixtures are designed for use with ColorDial™ Pro in iW Mode and Data Enabler Pro. With pushbutton brightness and temperature controls, ColorDial Pro makes it easy to choose the right white light source for your desired mood, application, or time of day. Thanks to patented Powercore technology, Data Enabler Pro delivers line voltage and control data to iW Blast Powercore fixtures over a single standard wire, eliminating the need for external power supplies,

A simple installation might use a single run of iW Blast Powercore fixtures with one Data Enabler Pro and ColorDial Pro to wash the walls in an office entryway with uniform, color-variable white light. A more complex installation might use multiple runs of iW Blast Powercore fixtures with multiple Data Enabler Pro devices, mounted in crane-accessible locations on a building exterior for dramatic, intelligent illumination of notable architectural features.



Typical iW Blast Powercore installation
Installations typically feature one or more runs of iW Blast Powercore fixtures controlled by ColorDial Pro in iW Mode. Multiple Data Enabler Pro devices, connected in series, can be controlled by a single ColorDial Pro.

Regardless of the size and complexity of your installation, planning up front can help streamline the installation and configuration of your fixtures. Create a lighting design plan that identifies and locates all fixtures, power / data supplies, and controllers. Use this Product Guide and the online Configuration Calculator to determine whether to install fixtures in series or in parallel, how many fixtures you can install in a single run, and the maximum distances between Data Enabler Pro devices, fixtures, and controllers.

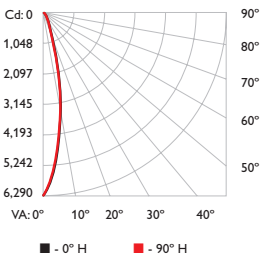
Photometrics

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

iW Blast Powercore 23° Frosted Lens

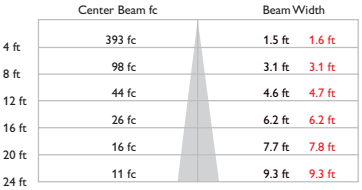
Lumens	1617
Efficacy	32.3 lm / W

Polar Candela Distribution



	0	22.5	44	67.5	90
0	6290	6290	6290	6290	6290
5	5333	5332	5326	5328	5334
15	1950	1950	1950	1940	1939
25	596	590	581	573	571
35	232	225	217	213	213
45	120	114	108	106	107
55	69	67	66	64	65
65	39	37	38	38	38
75	17	16	16	17	18
85	0	1	2	2	2
90	0	0	0	0	0

Illuminance at Distance



80 ft (24 m)
1 fc maximum distance

Vert. Spread: 21.9°
Horiz. Spread: 21.9°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	1,270.3	78.5%	78.5%
0-40	1,412.4	87.3%	87.3%
0-60	1,558.2	96.3%	96.3%
60-90	59.4	3.7%	3.7%
0-90	1,617.6	100%	100%
90-180	0	0%	0%
0-180	1,617.6	100%	100%

Total Efficiency: 100%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.11	1.09	1.07	1.11	1.09	1.07	.94	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2	1.09	1.04	1.00	.97	1.06	1.02	.99	.89	.99	.96	.94	.96	.94	.92	.93	.92	.90	.88
3	1.04	.98	.93	.90	1.02	.96	.92	.84	.94	.90	.87	.92	.89	.86	.89	.87	.85	.83
4	.99	.93	.88	.84	.98	.91	.87	.80	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
5	.95	.88	.83	.79	.94	.87	.82	.76	.85	.81	.78	.84	.80	.77	.82	.79	.76	.75
6	.92	.84	.79	.75	.90	.83	.78	.73	.82	.77	.74	.80	.76	.74	.79	.76	.73	.72
7	.88	.80	.75	.71	.87	.80	.75	.70	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
8	.85	.77	.72	.68	.84	.76	.72	.67	.75	.71	.68	.74	.70	.68	.74	.70	.67	.66
9	.82	.74	.69	.66	.81	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.64
10	.80	.71	.66	.63	.79	.71	.66	.62	.70	.66	.63	.69	.66	.63	.69	.65	.63	.61

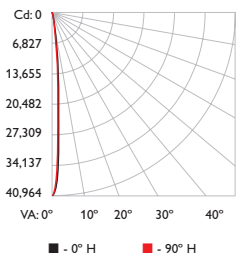
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

iW Blast Powercore 10° Clear Lens

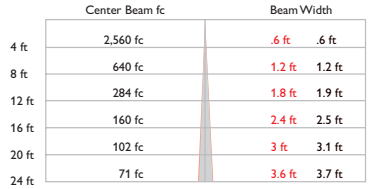
Lumens	1777
Efficacy	35.5 lm / W

Polar Candela Distribution



	0	22.5	44	67.5	90
0	40964	40964	40964	40964	40964
5	15771	16059	16564	16973	17060
15	1070	1074	1091	1018	988
25	289	251	243	238	240
35	104	67	59	59	59
45	74	41	36	33	37
55	57	49	56	43	54
65	22	9	6	5	7
75	5	1	0	1	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



202 ft (61.6 m)
1 fc maximum distance

■ Vert. Spread: 8.5°
■ Horiz. Spread: 8.9°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	1,635.9	92.1%	92.1%
0-40	1,681.9	94.6%	94.7%
0-60	1,765.8	99.4%	99.4%
60-90	10.9	0.6%	0.6%
0-90	1,776.7	100%	100%
90-180	0	0%	0%
0-180	1,776.7	100%	100%

Total Efficiency: 100%

For lux multiply fc by 10.7

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.14	1.12	1.10	1.13	1.11	1.10	.98	1.08	1.06	1.05	1.04	1.03	1.02	1.01	1.00	.99	.98
2	1.12	1.09	1.06	1.04	1.10	1.07	1.05	.96	1.04	1.02	1.01	1.01	1.00	.99	.99	.98	.97	.95
3	1.09	1.05	1.02	.99	1.08	1.04	1.01	.94	1.01	.99	.97	.99	.97	.96	.97	.96	.94	.93
4	1.07	1.02	.98	.96	1.05	1.01	.98	.92	.99	.96	.94	.97	.95	.93	.95	.94	.92	.91
5	1.04	.99	.96	.93	1.03	.98	.95	.90	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
6	1.02	.97	.93	.91	1.01	.96	.93	.89	.95	.92	.90	.94	.91	.89	.93	.90	.89	.88
7	1.00	.95	.91	.89	.99	.94	.91	.87	.93	.90	.88	.92	.90	.88	.91	.89	.87	.86
8	.98	.93	.89	.87	.97	.92	.89	.86	.92	.89	.87	.91	.88	.86	.90	.88	.86	.85
9	.97	.91	.88	.86	.96	.91	.88	.85	.90	.87	.85	.89	.87	.85	.89	.87	.85	.84
10	.95	.90	.87	.84	.94	.89	.86	.84	.89	.86	.84	.88	.86	.84	.88	.85	.84	.83

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

Specifications

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

Item	Specification	Details
Output	Beam Angle	23° / 10°
	Color Temperature*	2700 K – 6500 K
	Lumens†	1617 (23° beam angle) 1777 (10° beam angle)
	Efficacy (lm / W)	32.3 (23° beam angle) 35.5 (10° beam angle)
	Mixing Distance	6 in (152 mm) to uniform light
	CRI	83 warm, 73 cool, 83 all
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz via Data Enabler Pro
	Power Consumption	50 W maximum at full output, steady state
	Power Factor	.99 @ 120 VAC
Control	Interface	Data Enabler Pro (DMX / Ethernet) Fixture firmware addressable 8- or 16-bit control
	Control System	Philips full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions *(Height x Width x Depth)*	7.1 x 12.5 x 4.9 in (172 x 317 x 125 mm)
	Weight	6.4 lbs (2.9 kg)
	Effective Projected Area (EPA)	0.05211 m^2
	Housing	Die-cast aluminium, black or white powder-coated finish.
	Lens	Frosted tempered glass (23° beam angle) Clear tempered glass (10° beam angle)
	Fixture Connections	6 ft (1.8 m) unified power / data cable
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Fixture Run Lengths Per Data Enabler Pro‡	30 @ 100 VAC 36 @ 120 VAC 66 @ 220 VAC 72 @ 240 VAC *Configuration:* *20 A circuit, 20 ft (6.1 m) leader cable from Data Enabler Pro to first junction box, 2 ft (610 mm) jumper cables*
Certification and Safety	Certification	UL / cUL, FCC, CE
	Environment	Dry / Damp / Wet Location, IP66

* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.

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

‡ These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the fixture run lengths.

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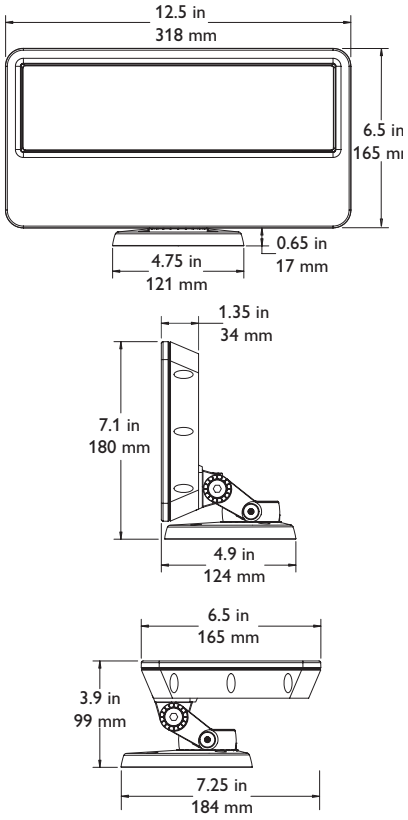
Lumen Maintenance

Lumen maintenance values are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.colorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

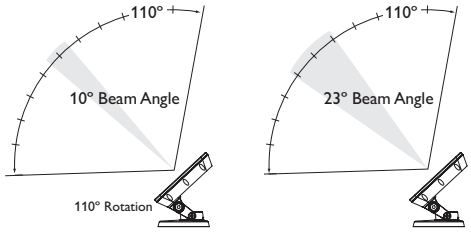
Warm	L_{50}*	L_{70}*
@ 25° C	100,000+ hours	90,000 hours
@ 50° C	90,000 hours	70,000 hours
Cool	L_{50}	L_{70}
@ 25° C	100,000+ hours	90,000 hours
@ 50° C	90,000 hours	70,000 hours
Full	L_{50}	L_{70}
@ 25° C	90,000 hours	70,000 hours
@ 50° C	68,000 hours	37,000 hours

* L_{50} = 50% maintenance of lumen output (when light output drops below 50% of initial output).

* L_{70} = 70% maintenance of lumen output (when light output drops below 70% of initial output).



To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/



Included in the box

iW Blast Powercore fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
1/8 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

Fixtures and Data Enabler Pro

iW Blast Powercore fixtures are part of a complete line-voltage system which includes fixtures and:

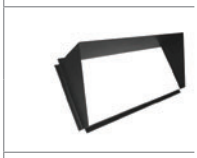
- One or more Data Enabler Pro devices.
- 4-conductor copper wire to connect iW Blast Powercore fixtures in series or in parallel. Standard 12 AWG (2.05 mm) stranded wire is recommended.
- Any Philips controller, including Light System Manager, iPlayer® 3, and ColorDial Pro, or a third-party controller.

Item	Housing Color	Lens	Item Number	Philips 12NC
iW Blast Powercore (UL)	White	Frosted 23°	523-000033-00	910503700379
		Clear 10°	523-000033-02	910503700381
	Black	Frosted 23°	523-000033-01	910503700380
		Clear 10°	523-000033-03	910503700382
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 provide additional options for controlling and dispersing light. Accessory holders snap to the front of the fixture and are required for mounting accessories. Accessory holders prevent accessories from falling out if the fixture is tipped or hung upside down.



Item	Housing Color	Item Number	Philips 12NC
Accessory Holders	White	120-000070-00	—
	Black	120-000070-01	—
Half Top Hats	White	120-000009-03	—
	Black	120-000009-04	—
Top Hats	White	120-000005-03	—
	Black	120-000005-04	—
Egg Crate Louvers	White	120-000015-03	—
	Black	120-000015-04	—
Barndoors	White	120-000019-03	—
	Black	120-000019-04	—
Horizontal Spread Lens	36 / 50°	120-000025-00	—
Vertical Spread Lens	40°	120-000025-01	—

Installation

iW Blast Powercore offers dimmable, high-intensity white LED illumination with variable color temperature for wall-washing and grazing, enhancing architectural detail, theatrical stage lighting, and studio lighting, both indoors and outdoors.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate iW Blast Powercore 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.

Refer to the iW Blast Powercore Installation Instructions for specific warning and caution statements.

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 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

Prepare for the Installation

1. Refer to the lighting design plan, architectural diagram, or other diagram that shows the physical layout of the installation to identify the locations of all switches, controllers, Data Enabler Pro devices, fixtures, and cables.

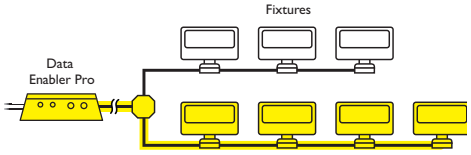
   iW Blast Powercore fixtures can be installed in series or in parallel (wired to a common junction box). The maximum number of fixtures each Data Enabler Pro can support depends on specific configuration details such as fixture spacing, circuit size, line voltage, and method of connection (in series or in parallel), As an example, the table to the left lists the maximum number of fixtures each Data Enabler Pro can support at various voltages, assuming a 20A circuit, standard 6 ft (1.8 m) Leader Cables, and 2 ft (610 mm) jumper cables between fixtures. Keep in mind that these figures, provided as a guideline, are accurate for the specified configuration only. Changing the configuration can affect the fixture run lengths.

   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 175 feet (53.3 m), and the total cable length per Data Enabler Pro should not exceed 400 feet (122 m).

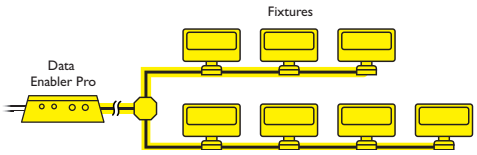
Fixture run lengths

30 @ 100 VAC
36 @ 120 VAC
66 @ 220 VAC
72 @ 240 VAC

assuming 20 A circuit, 20 ft (6.1 m) leader cable from iW Data Enabler to first junction box, 1 ft (305 mm) fixture cables, 2 ft (610 mm) jumper cables



Data Integrity — maximum individual length 175 ft (53.3 m)

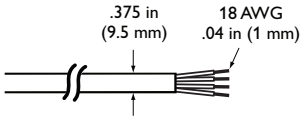


Data Integrity — total length 400 ft (122 m)

3. Install all Data Enabler Pro devices, including any interfaces with controllers. Data Enabler Pro and external controllers send power and control signals to fixtures over the single leader cable.

   For installations in which you want to manually adjust the brightness and color temperature of all connected iW Blast Powercore fixtures in unison, use ColorDial Pro in iW Mode. For installations in which you want to dynamically control the brightness and color temperature of individual fixtures, use a controller such as iPlayer 3 or Light System Manager. Refer to "Address and Configure the Fixtures" below for details.

Fixture cable dimensions



4. Verify that all additional supporting equipment (switches, controllers) is in place.
5. Ensure that all additional parts and tools are available, including:
   - The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
   - The included 1/8 hex key wrench
   - The included junction box gasket
   - In the US, one 4 in (102 mm) round US electrical junction box per fixture, rated for your application, with 3.5 in (89 mm) 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 12 AWG (2.05 mm), 4-conductor stranded copper wire
   - Conduit as required
   - Electronics-grade room temperature vulcanizing (RTV) silicone sealant

Included in the box

iW Blast Powercore fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
1/8 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

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

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.

Wiring between junction boxes must comply with local codes.

Install the Fixtures

iW Blast Powercore 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 sealed, if necessary, and that all wiring between junction boxes complies with local codes

Make sure the power is OFF before mounting and connecting iW Blast Powercore fixtures.

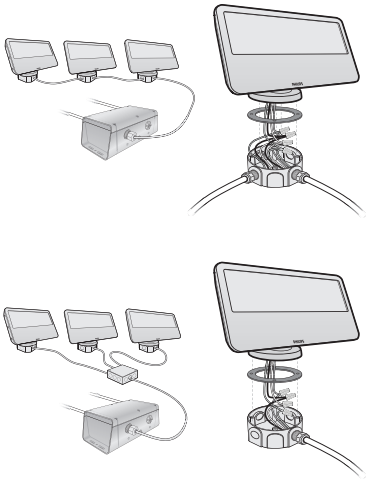
1. Unpack iW Blast Powercore fixtures. Carefully inspect the box containing and its contents for any damage that may have occurred in transit.
2. Each iW Blast Powercore fixture comes pre-programmed with a unique serial number. If you plan to control fixtures independently, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.
3. Assign each fixture to a position in the lighting design plan.
4. 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.
5. Mount junction boxes in accordance with the lighting design plan. Each fixture is designed for mounting in a 4 in (102 mm) round US electrical junction box, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture's base.
6. If installing fixtures in a series, pull 4-conductor copper wire between each junction box in the series.

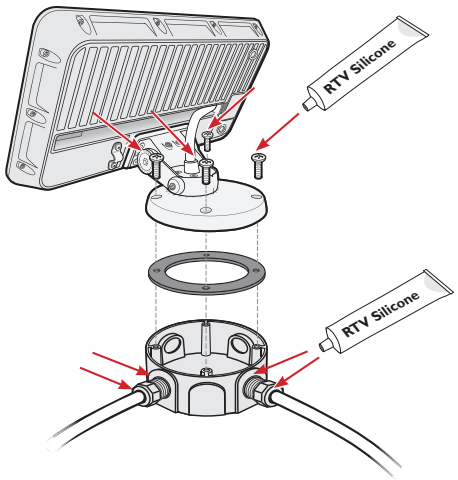
   If installing fixtures in parallel, pull 4-conductor copper wire from a common junction box to each fixture's junction box.

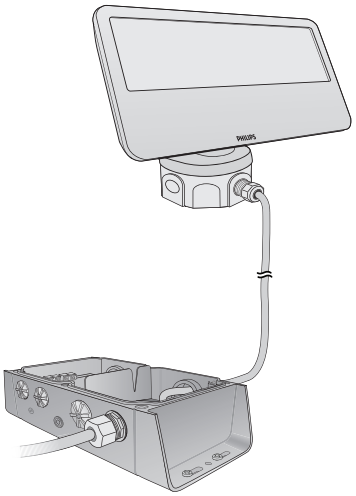
   The maximum cable run from a Data Enabler Pro to any individual iW Blast Powercore fixture is 175 feet (53 m). When installing in parallel, the total cable length cannot exceed 400 feet (122 m).

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 through the provided junction box gasket before making wire connections. When attaching the fixture to the junction box, ensure that the gasket is compressed evenly.
5. Use wire nuts 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 leader cable from each fixture to the lead wire from the Data Enabler Pro in the common junction box.
6. Tuck wire connections into the junction box, and use the provided screws to attach the fixture to the junction box.
7. If installing in a wet or damp 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.

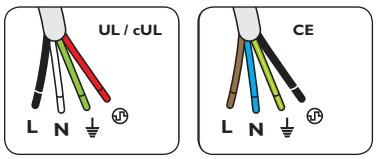
Install fixtures in series or in parallel



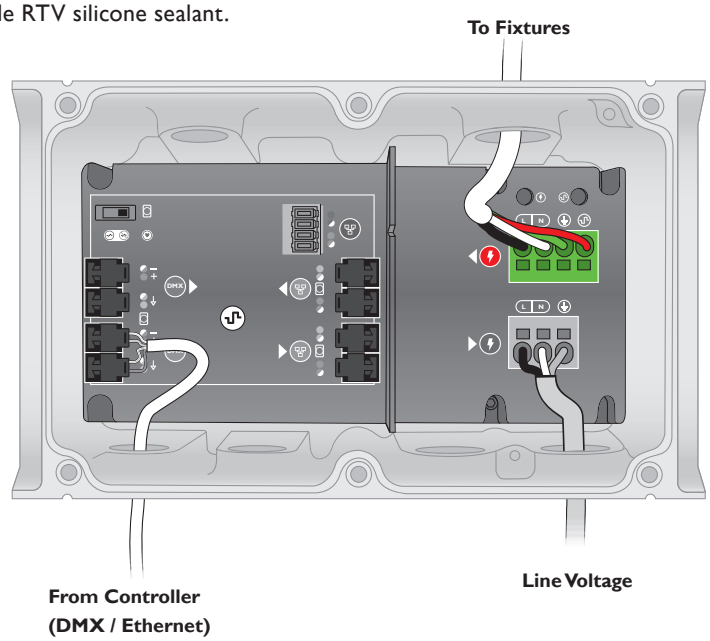




8. Run the wiring from the first junction box in the series to the Data Enabler Pro, or, if installing in parallel, run the wiring from the common junction box to the Data Enabler Pro. Secure connections within the Data Enabler Pro housing.
9. Secure the Data Enabler Pro cover. If installing in a wet or damp location, seal the Data Enabler Pro with electronics-grade RTV silicone sealant.

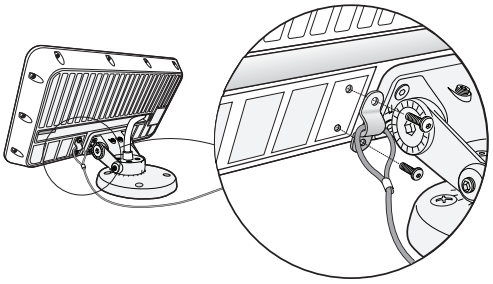


L	Line Voltage Tension de secteur Netzspannung Tensión de línea Tensione di linea Netspanning 線間電圧 线路电压
⏚	Ground Terre Masse Toma de tierra Terra Aarde アース 接地
N	Neutral Neutral Neutro Neutro Neutraal 中性線 零线
⎍	Data Données Daten Datos Dati Data データ 数据



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/ls/pds/dataenablerpro

Safety cable bracket location on fixture



Safety cable minimum requirements

Material	316 Stainless Steel
Size	5/64 to 3/16 in (2.0 to 4.8 mm) nominal diameter. Minimum break load must be greater than 400 lbs (181 kg)
Construction	7 x 7 (49 wires) preformed stranded

LED Channels

RGB	iW Blast Powercore
Red	Warm (2700 K)
Green	Cool (6500 K)
Blue	Unused

Attach Safety Cable (Optional)

iW Blast Powercore is designed for use with a safety cable to tether the fixture 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 located on the back of the fixture. Remove the two screws that attach the cable bracket, loop the safety cable over the cable bracket, and reattach to the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.

Controlling iW Blast Powercore Fixtures

Philips Color Kinetics offers a number of control options for all iW Blast Powercore fixtures, from simple to complex.

Displaying Fixed Light Output

For installations in which you want to manually adjust the brightness and color temperature of all fixtures in unison, use ColorDial Pro in iW Mode. With ColorDial Pro, no fixture addressing or configuration is necessary.

ColorDial Pro is a Power-Over-Ethernet (PoE) device that requires a PoE switch, or a conventional Ethernet switch with a PoE injector. Refer to the ColorDial Pro documentation for details on how to install and use ColorDial Pro with iW Blast Powercore fixtures.

Displaying Dynamic Light Output

For dynamic installations in which you want to display different light output on iW Blast Powercore fixtures simultaneously, you must use an RGB-based DMX or Ethernet controller such as iPlayer 3 or Light System Manager. To support dynamic effects that automatically modify brightness and color temperature on individual fixtures, you must address and configure iW Blast Powercore fixtures as you would any color-changing (RGB) fixture.

iW Blast Powercore fixtures use DMX addresses to communicate with controllers. The number of DMX addresses each iW Blast Powercore fixture requires depends on the fixture's configuration.

iW Blast Powercore fixtures operate in 8-bit mode by default. You can configure fixtures to operate in 16-bit mode, which increases resolution for smoother dimming and more precise control. In 8-bit mode, fixtures use one DMX address per LED channel. In 16-bit mode, fixtures use two DMX addresses per LED channel. The first DMX address corresponds to the "coarse" data for that channel, and the second corresponds to the "fine" data. By using double the number of DMX addresses, 16-bit mode increases fixture resolution from 256 dimming steps to 65,536 (256 x 256) dimming steps.

You can address and configure iW Blast Powercore fixtures in much the same way as you would address any RGB fixture. For an iW Blast Powercore fixture, the red channel corresponds to the warm LEDs, the green channel corresponds to the cool LEDs, and the blue channel is not used.

Note that although the blue DMX channel is not used, it is *assigned*, so that each iW Blast Powercore uses three DMX sequential addresses (or a multiple of three addresses), just like an RGB fixture.

iW Blast Powercore 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 addresses are not necessary, but if lights were previously readdressed for use in other installations, you must reset them. For light show designs that show different light output on different fixtures simultaneously, you must assign unique DMX addresses to your fixtures and sort them in a useful order.

The following table shows the DMX channel assignments for 8-bit and 16-bit iW Blast Powercore configurations, assuming a starting DMX address of 1.

DMX Channel Assignments

8-bit Mode	1		2		3	
	Warm		Cool		Unused	
16-Bit Mode	1	2	3	4	5	6
	Warm	Warm	Cool	Cool	Unused	Unused

You can assign unique DMX addresses to fixtures, or set all fixtures to the same starting DMX address, using QuickPlay Pro software. Fixtures are identified within QuickPlay Pro by serial number, so you will need the layout grid that you created when you recorded the serial numbers of your fixtures during installation planning.

You can download QuickPlay Pro from www.colorkinetics.com/support/addressing/

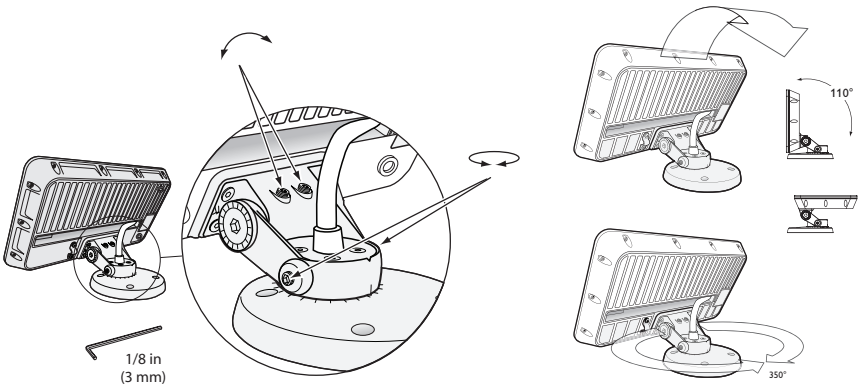
- In Ethernet installations, you can you use QuickPlay Pro with a computer connected directly to a switch within the light system's network. QuickPlay Pro can automatically discover all fixtures, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure 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.

For complete details on addressing and configuration, refer to Addressing and Configuration using QuickPlay Pro at www.colorkinetics.com/support/addressing.

Aim and Lock the Fixtures

Make sure the power is ON before aiming and locking the fixtures. Do not look directly into fixture when aiming and locking.

Using the provided 1/8" hex key wrench, loosen the rotation and tilting set screws. Aim the fixtures by rotating the base and tilting the beam as desired. Tighten the two pairs of set screws to lock the fixture in place.



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