



iW Reach Compact Powercore

Premium long-throw compact exterior floodlight with intelligent white light



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iW Reach Compact Powercore combines all the benefits of LED-based lighting and control in a compact fixture specifically designed for large-scale installations, such as skyscrapers, casinos, bridges, piers, public monuments, and themed attractions. iW Reach Compact Powercore combines channels of warm, neutral, and cool LED sources to offer high-quality variable white light in color temperatures ranging from 2700 K – 6500 K. iW Reach Compact Powercore delivers intense, energy-efficient output at a reasonable price, opening up new possibilities for exterior illumination.

- Integrates Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage. Philips Data Enabler Pro merges line voltage and control data and delivers them to fixtures over a single standard cable, dramatically simplifying installation and lowering total system cost.
- High-performance illumination in a wide range of color temperatures — Channels of warm, neutral, and cool white LEDs produce temperatures ranging from 2700 K to 6500 K, offering the greatest possible light intensity at all temperatures. Fixture brightness can be varied while maintaining constant temperature.
- Superior color consistency — Optibin, a proprietary binning optimization process developed by Philips Color Kinetics, guarantees consistency of hue across LEDs, fixtures, and manufacturing runs.
- Versatile optics — Exchangeable spread lenses of 8°, 13°, 23°, 40°, 63°, and an asymmetric 5° x 17° support a variety of photometric distributions for a multitude of applications, including spotlighting, wall grazing, and asymmetric wall washing. Bezel and gasket are included with spread lenses for easy user installation.
- High-performance, cost-effective light — Significantly less cost to install, operate, and maintain than traditional light sources.
- Simple fixture positioning — Rugged, slim-profile mounting bracket allows simple positioning and fixture rotation through a full 360°. Side locking bolts reliably secure fixture with a standard wrench.
- Universal power input range — Accepts a universal power input range of 100 – 240 VAC, allowing consistent installation in any location around the world.



Intense light output

iW Reach Compact Powercore outputs thousands of lumens and throws light hundreds of feet, delivering legitimate LED-based white-light illumination of large-scale structures and objects in a compact, fully-sealed housing.

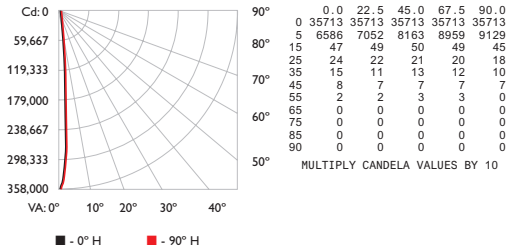
Photometrics

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

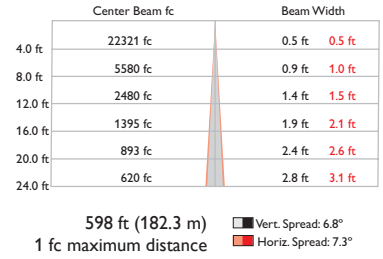
iW Reach Compact Powercore 5° native (no spread lens)

LED	Lumens	Efficacy
RGB	6129	49.6

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5981	97.6
0- 40	6061	98.9
0- 60	6129	100.0
0- 90	6129	100.0
90-180	0	0.0
0-180	6129	100.0

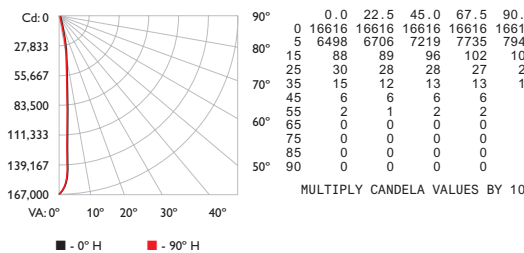
Coefficients Of Utilization - Zonal Cavity Method

RC	Effective Floor Cavity Reflectance: 20%											
	80		70		50		30		10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	119119119119	116116116116	1111111111	106106106	102102102	100						
1	116115114112	114113112111	109108107	105105104	102102101	100						
2	114112110108	112110108107	107106104	104103102	102101100	99						
3	112109107105	111108106104	106104103	104102101	102100100	99						
4	111107105103	109106104102	104103101	103101100	101100	99						
5	109106103101	108105103101	103102100	102101	99	101100	99					
6	108104102100	107104101100	103101	99	102100	99	101	99	98	97		
7	107103101	99	106103101	99	102100	99	101	99	98	100	99	98
8	106102100	99	105102100	98	101	99	98	101	99	98	100	98
9	105102	99	98	105101	99	98	101	99	98	100	99	97
10	105101	99	98	104101	99	97	100	98	97	100	98	97

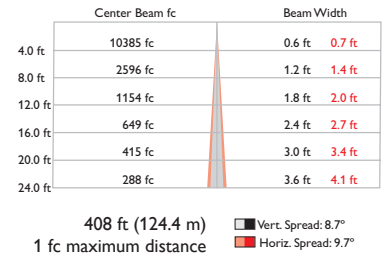
iW Reach Compact Powercore 8° spread lens

LED	Lumens	Efficacy
RGB	5325	43.0

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5179	97.3
0- 40	5264	98.9
0- 60	5324	100.0
0- 90	5325	100.0
90-180	0	0.0
0-180	5325	100.0

Coefficients Of Utilization - Zonal Cavity Method

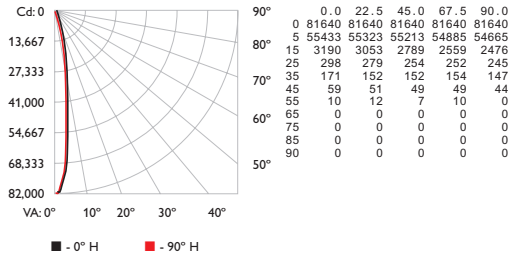
RC	Effective Floor Cavity Reflectance: 20%											
	80		70		50		30		10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	119119119119	116116116116	1111111111	106106106	102102102	100						
1	116115113112	114113111110	109108107	105104104	102101101	99						
2	114111109107	112110108106	107105104	104103102	102101100	98						
3	112109106104	110107105103	105103102	103101100	101100	98						
4	110106104102	109105103101	104102100	102100	99	100	99	98	97	96		
5	109105102100	107104101100	102100	99	101	99	98	100	98	97	96	95
6	107103100	99	106103100	98	101	99	98	100	99	97	99	98
7	106102	99	97	105101	99	97	100	98	97	100	98	96
8	105101	98	97	104100	98	96	100	98	96	99	97	95
9	104100	97	96	103100	97	96	99	97	95	98	97	95
10	103	99	97	95	102	99	97	95	98	96	95	94

For lux multiply fc by 10.7

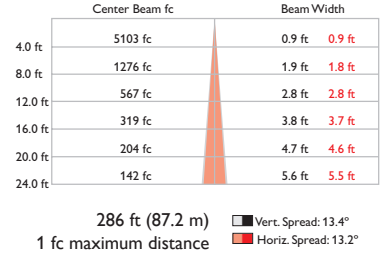
iW Reach Compact Powercore 13° spread lens

LED	Lumens	Efficacy
RGB	5317	43.0

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5175	97.3
0- 40	5269	99.1
0- 60	5317	100.0
0- 90	5317	100.0
90-180	0	0.0
0-180	5317	100.0

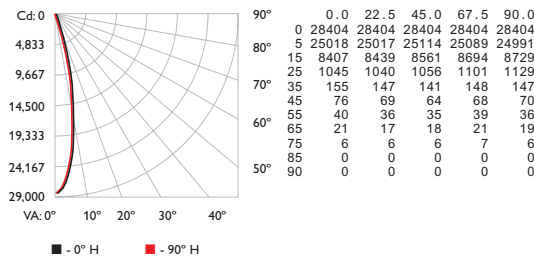
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%							
RC	80	70		50		30		10	0
RW	70 50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 10	50 30 10	50 30 10	50 30 10	0
0	119119119119	116116116116	111111111111	106106106	102102102	100			
1	116114113111	114112111110	108107106	105104103	101101100	99			
2	113111108106	111109107105	106104103	103102101	101100 99	97			
3	111108105103	109106104102	104102100	102100 99	100 98 97	96			
4	109105102100	108104101 99	102100 98	100 99 97	99 97 96	95			
5	107103100 98	106102 99 97	101 98 96	99 97 96	98 96 95	94			
6	105101 98 96	104100 98 96	99 97 95	98 96 94	97 95 94	93			
7	104 99 96 94	103 99 96 94	98 95 94	97 95 93	96 94 93	92			
8	102 98 95 93	102 97 95 93	97 94 93	96 94 92	95 93 92	91			
9	101 97 94 92	100 96 94 92	96 93 92	95 93 91	94 93 91	91			
10	100 95 93 91	99 95 93 91	95 92 91	94 92 91	94 92 90	90			

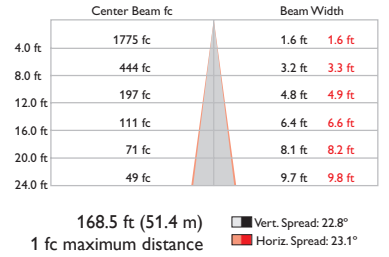
iW Reach Compact Powercore 23° spread lens

LED	Lumens	Efficacy
RGB	5296	42.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5078	95.9
0- 40	5182	97.8
0- 60	5270	99.5
0- 90	5296	100.0
90-180	0	0.0
0-180	5296	100.0

Coefficients Of Utilization - Zonal Cavity Method

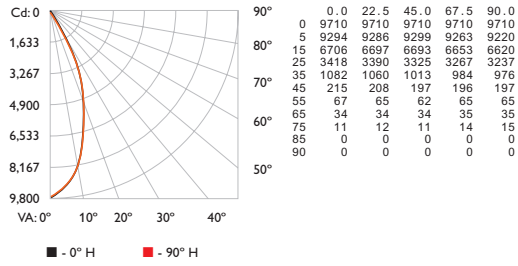
		Effective Floor Cavity Reflectance: 20%							
RC	80	70		50		30		10	0
RW	70 50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 10	50 30 10	50 30 10	50 30 10	0
0	119119119119	116116116116	111111111111	106106106	102102102	100			
1	115113111110	113111109108	107106105	103102101	100 99 99	97			
2	112108105103	109106104102	103101 99	100 99 97	98 96 95	94			
3	108104100 97	106102 99 97	100 97 95	98 95 94	96 94 92	91			
4	105100 96 93	103 99 95 93	97 94 92	95 93 91	93 91 90	88			
5	102 96 93 90	101 96 92 89	94 91 89	93 90 88	91 89 87	86			
6	99 93 89 87	98 93 89 86	91 88 86	90 87 85	89 87 85	84			
7	97 91 87 84	96 90 86 84	89 86 83	88 85 83	87 85 83	82			
8	94 88 84 82	94 88 84 81	87 84 81	86 83 81	85 83 81	80			
9	92 86 82 79	91 86 82 79	85 81 79	84 81 79	83 81 79	78			
10	90 84 80 77	89 83 80 77	83 79 77	82 79 77	82 79 77	76			

For lux multiply fc by 10.7

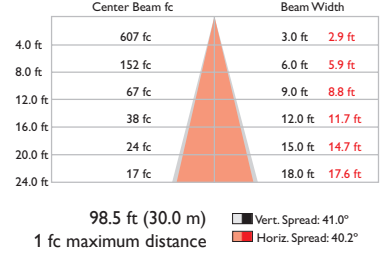
iW Reach Compact Powercore 40° spread lens

LED	Lumens	Efficacy
RGB	5168	41.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	4212	81.5
0- 40	4882	94.5
0- 60	5119	99.1
0- 90	5168	100.0
90-180	0	0.0
0-180	5168	100.0

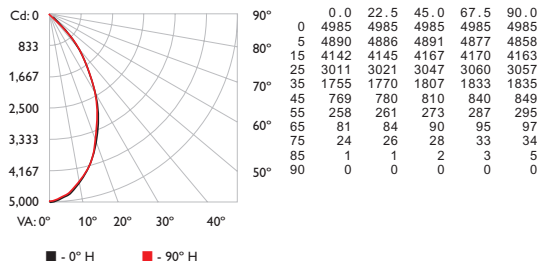
Coefficients Of Utilization - Zonal Cavity Method

RC	80			70			50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
0	119119119119	116116116116	111111111111	106106106	102102102	100										
1	114111109107	112109107105	105104102	10110099	989796	94										
2	10910410198	1071039996	999794	979492	949290	89										
3	104989490	102979389	949188	928986	908785	84										
4	99938884	98918783	898582	878481	868380	79										
5	95888278	94878278	858177	838077	827976	75										
6	91837874	90827773	817673	797572	787572	71										
7	87797370	86787369	777269	767269	757168	67										
8	84757066	82746966	736966	726865	726865	64										
9	80726663	79716663	706662	696562	696562	61										
10	77686360	76686360	676359	666259	666259	58										

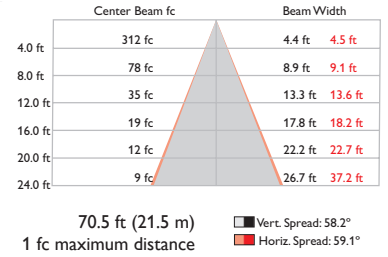
iW Reach Compact Powercore 63° spread lens

LED	Lumens	Efficacy
RGB	5155	41.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	3005	58.3
0- 40	4130	80.1
0- 60	5025	97.5
0- 90	5155	100.0
90-180	0	0.0
0-180	5155	100.0

Coefficients Of Utilization - Zonal Cavity Method

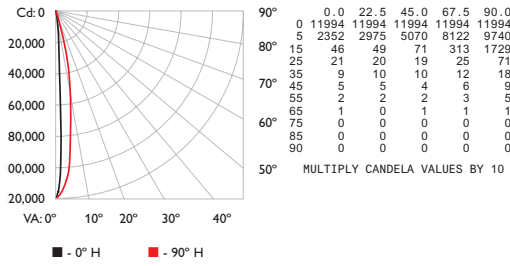
RC	80			70			50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
0	119119119119	116116116116	111111111111	106106106	102102102	100										
1	113110107104	110107105103	103101100	1009897	969594	92										
2	1061019692	104999591	969289	939087	908886	84										
3	100938783	98918682	898481	868279	848178	76										
4	94867975	92847974	827773	807672	787572	70										
5	89797368	87787268	767167	757066	736966	64										
6	84746762	82736762	716662	706561	686461	59										
7	79696257	78686257	676157	656056	646056	55										
8	75646853	73645753	625753	615652	605652	51										
9	71606449	70606349	595349	585349	575249	47										
10	67576046	66565046	555046	544946	544946	44										

For lux multiply fc by 10.7

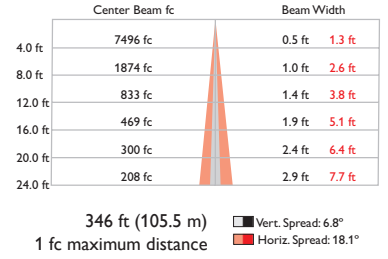
iW Reach Compact Powercore 5° x 17° asymmetric spread lens

LED	Lumens	Efficacy
RGB	5369	43.4

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5225	97.3
0- 40	5297	98.7
0- 60	5360	99.8
0- 90	5369	100.0
90-180	0	0.0
0-180	5369	100.0

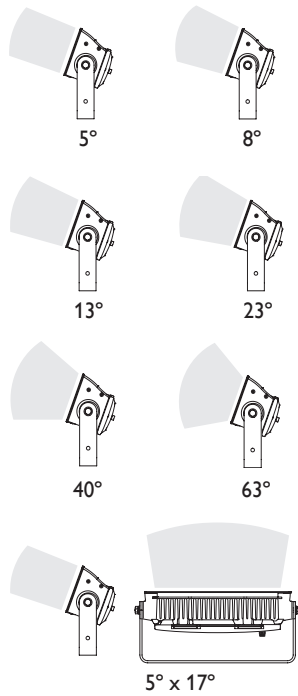
Coefficients Of Utilization - Zonal Cavity Method

RC	Effective Floor Cavity Reflectance: 20%											
	80		70		50		30		10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	119119119119	119119119119	116116116116	111111111111	106106106106	102102102102	100					
1	116114113111	114112111110	108107106	105104103	101101100	99						
2	113110108106	111109107105	106104103	103102101	100	99	99	97				
3	111107105102	109106104102	104102100	102100	99	100	98	97	99	97	96	95
4	109105102100	107104101	99	102100	98	100	98	97	99	97	96	95
5	107103100	97	106102	99	97	100	98	96	99	97	95	94
6	105101	98	96	104100	97	95	99	97	95	98	96	94
7	104	99	96	94	103	99	96	94	98	95	93	92
8	102	98	95	93	101	97	95	93	96	94	92	91
9	101	96	94	92	100	96	93	92	95	93	91	90
10	100	95	93	91	99	95	92	91	94	92	90	89

For lux multiply fc by 10.7

Specifications

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



Item	Specification	Details
Output	Beam Angle	5° native 8°, 13°, 23°, 40°, 63°, and 5° x 17° (asymmetric) spread lenses
	Color Temperature*	2700 K – 6500 K
	Lumens†	6129 (5° native) 5325 (8°) 5317 (13°) 5296 (23°) 5168 (40°) 5155 (63°) 5369 (5° x 17°)
	Efficacy (lm / W)	49.6 (5° native) 43.0 (8°) 43.0 (13°) 42.8 (23°) 41.8 (40°) 41.7 (63°) 43.4 (5° x 17°)
	CRI	82 (no spread lens, all channels full on)
	Lumen Maintenance‡	60,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 100,000 hours L50 @ 25° C 80,000 hours L50 @ 50° C
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz via Data Enabler Pro
	Power Consumption	125 W
	Power Factor	.963 (no spread lens, all channels full on) @ 120 VAC
Control	Interface	Data Enabler Pro (DMX / Ethernet)
	Control System	Philips Color Kinetics full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions (Height x Width x Depth)	8.5 x 28.9 x 7.7 in (217 x 733 x 196 mm)
	Weight	51 lb (23 kg)
	Effective Projected Area (EPA)	0.186 m ²
	Housing	Die-cast aluminium, powder-coated finish
	Lens	Tempered glass
	Fixture Connections	Integral male / female waterproof connector, 6 ft (1.8 m) unified power / data Leader 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	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/
	Certification and Safety	Certification
Environment		Dry / Damp / Wet Location, IP66

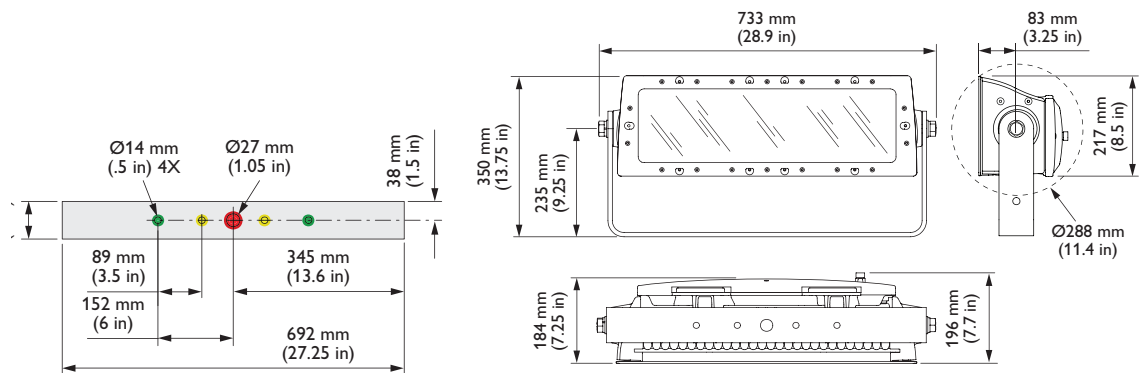
* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.



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

‡ L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

CHROMACORE[®] CK TECHNOLOGY | OPTIBIN[®] CK TECHNOLOGY | POWERCORE[®] CK TECHNOLOGY



Fixture and Accessories

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

- One or more Data Enabler Pro devices.
- Any Philips Color Kinetics controller, including Light System Manager, iPlayer 3, and ColorDial Pro, or a third-party controller.
- One 6 ft (1.8 m) leader cable to connect each iW Reach Compact Powercore fixture to a junction box or Data Enabler Pro.
- 4-conductor copper wire to connect iW Reach Compact Powercore fixtures in series or in parallel. Standard 12 AWG (2.05 mm) stranded wire is recommended.

Item	Type	Item Number	Philips 12NC
iW Reach Compact Powercore <i>Includes 6 ft (1.8 m) leader cable</i>	UL / cUL	523-000083-00	910503703280
	CE / PSE	523-000083-01	910503704181
Replacement Leader Cable 6 ft (1.8 m)	UL / cUL	108-000043-02	910503700453
	CE / PSE	108-000043-03	910503700454
Spread Lens with bezel	13°	120-000068-00	910503700506
	23°	120-000068-01	910503700507
	40°	120-000068-02	910503700508
	63°	120-000068-03	910503700509
	Asymmetric (5° x 17°)	120-000068-04	910503700510
	8°	120-000068-05	910503700511
Data Enabler Pro	3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211

Use Item Number when ordering in North America.

Installation

iW Reach Compact Powercore, a high-performance exterior architectural floodlight with extended light projection, is designed to brilliantly and dynamically illuminate prominent, signature façades. Because each iW Reach Compact Powercore fixture weighs 51 lb (23 kg), you may need two people to lift the fixture out of the box and position it in the mounting location. Optional accessory optics require the installation of both a spread lens and a bezel over the fixture's primary lens.

✳ Refer to the iW Reach Compact Powercore Installation Instructions for specific warning and caution statements.

Owner / User Responsibilities

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

Installing in Damp or Wet Locations

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

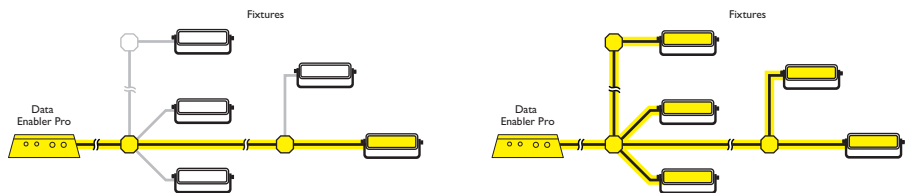
Prepare for the Installation

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 Reach Compact 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). For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.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 175 feet (53.3 m), and the total cable length per Data Enabler Pro should not exceed 400 feet (122 m).

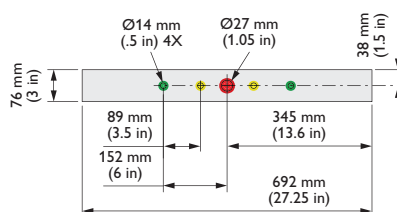
✳ To streamline the configuration of complex installations, record the serial number (DMX) or IP address (Ethernet) and location of each Data Enabler Pro.



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

Data Integrity – total length 400 ft (122 m)

Mounting bracket dimensions for pre-drilling



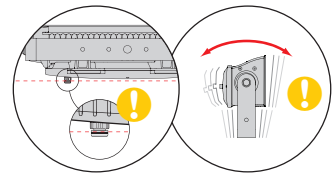
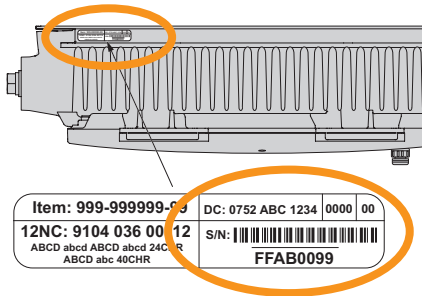
2. Ensure that the fixture mounting locations and substrates are sufficiently sturdy to bear the weight of each iW Reach Compact Powercore fixture. Pre-drill holes in the mounting substrate if necessary, making reference to the mounting bracket dimensions. Use at least two screws to secure each fixture, one on either side of the mounting bracket's central screw hole.

If mounting iW Reach Compact Powercore on a lighting pole, make sure the pole can both support the total weight of the fixtures and withstand the maximum velocity winds to which it will be subjected. Each fixture weighs 51 lb (23 kg), and has an effective projected area (EPA) of 0.186 m².

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.
4. Verify that all additional supporting equipment (switches, controllers) is in place.
5. Ensure that all additional parts and tools are available, including:
 - A 28 mm hex or adjustable wrench for adjusting the locking bolts on the fixture bracket.
 - One electrical junction box per fixture, rated for your application. (Refer to the junction box manufacturer's literature for additional items required for mounting or sealing.)
 - A sufficient length of 4-conductor copper wire. We recommend 12 AWG (2.05 mm) stranded wire.
 - Conduit as required.
 - Electronics-grade room temperature vulcanizing (RTV) silicone sealant.

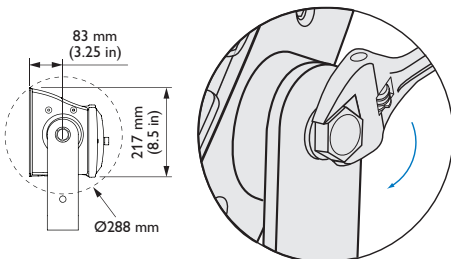
Position and Mount Fixtures

1. Unpack iW Reach Compact Powercore fixtures. Because each iW Reach Compact Powercore fixture weighs 51 lb (23 kg), you may need two people to lift the fixture out of the box and position it in the mounting location.
2. Each iW Reach Compact Powercore 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.

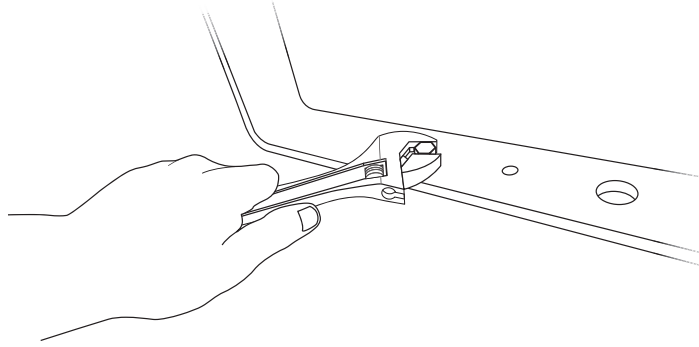


*** Do not rest iW Reach Compact Powercore on its back, as doing so may damage the connector port. Be careful not to tip the fixture over during positioning.**

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. Loosen the locking bolts, using a 28 mm hex or adjustable wrench, and rotate the fixture to access the mounting bracket. Tilting the fixture 90° affords 9.1 in (231 mm) clearance.



- If mounting holes have been pre-drilled, align the mounting bracket's screw holes with the pre-drilled holes. Mount the fixture bracket using hardware appropriate for the mounting substrate. Use at least two screws to secure each fixture, one on either side of the mounting bracket's central screw hole.



Connect the Fixtures

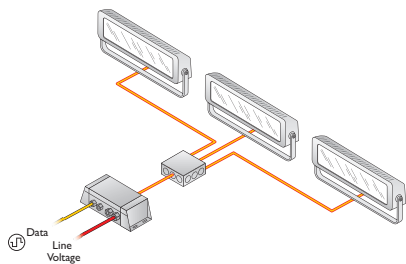
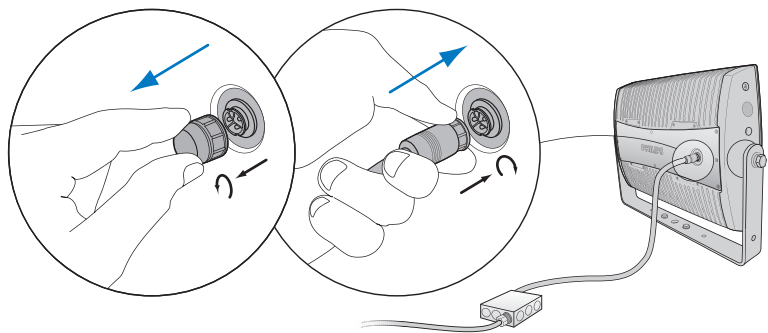
Make sure the power is OFF before connecting iW Reach Compact Powercore fixtures.

- Mount junction boxes in accordance with the lighting design plan.
- 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 Reach Compact Powercore fixture is 175 feet (53 m). When installing in parallel, the total cable length cannot exceed 400 feet (122 m).

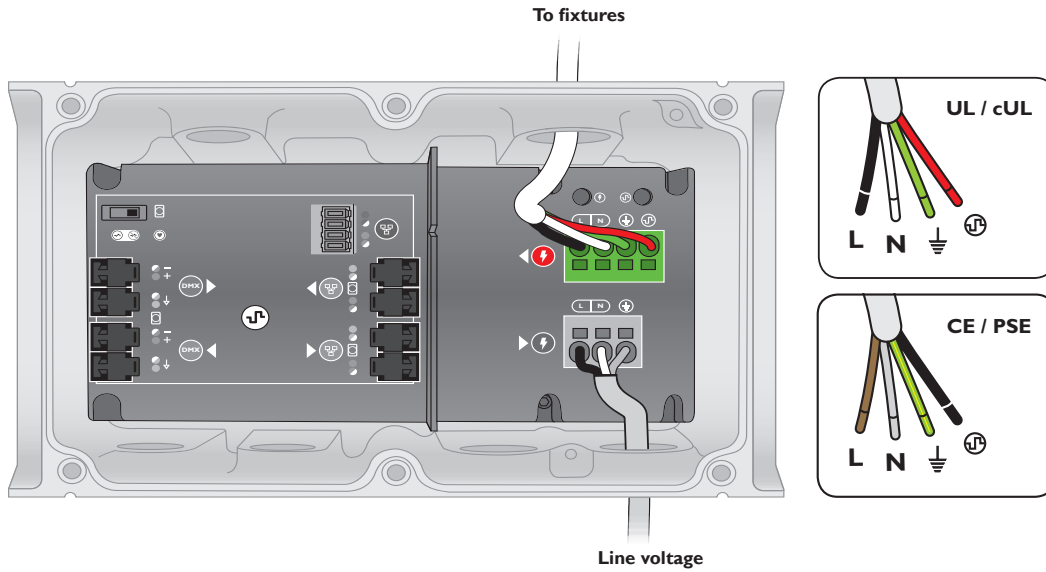
- If necessary, remove the connector cap from the port on the back of the iW Reach Compact Powercore housing. Insert the leader cable into the port. Turn the leader cable's lock nut to the right until it locks into place.



iW Reach Compact Powercore fixtures installed in parallel

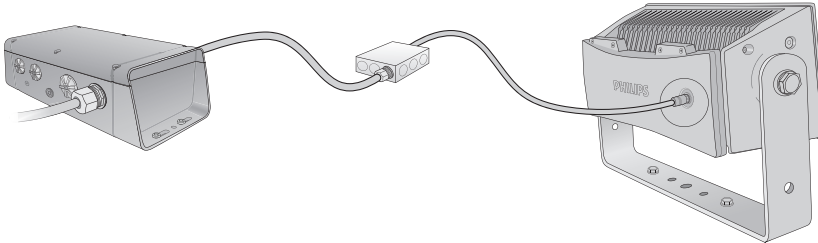
- Use wire nuts to connect line, neutral, ground, and data. If installing in series, connect the leader cable from each fixture to the fixture's junction box. If installing in parallel, connect the leader cable from each fixture to the lead wire from the Data Enabler Pro in the common junction box.
- Tuck wire connections into the junction box.

- 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.
- 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.



- Secure the Data Enabler Pro cover. Seal the Data Enabler Pro with electronics grade RTV silicone sealant.

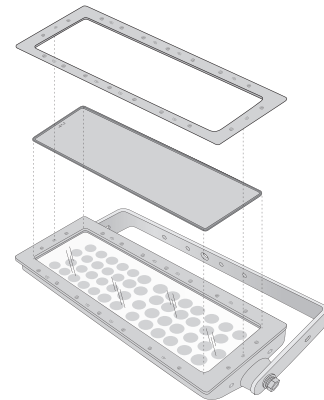
Refer to the Data Enabler Pro Product Guide for complete installation and operation details.




Attach Spread Lenses (Optional)

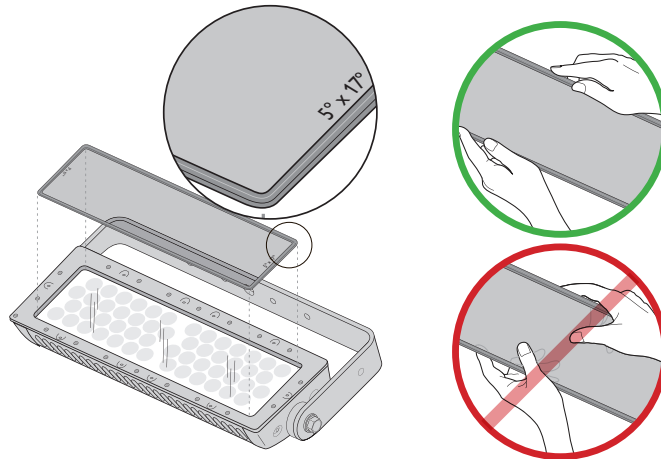
Exchangeable iW Reach Compact Powercore spread lenses of 8°, 13°, 23°, 40°, 63°, and an asymmetric 17° x 5° support a variety of photometric distributions for a multitude of applications, including spotlighting, wall grazing, and asymmetric wall washing.

- Unpack and confirm the contents of the box. Each box contains one lens kit, consisting of a spread lens with attached rubber gasket, and a bezel with 10 captured mounting screws.
- Clean both sides of the spread lens and the face of the iW Reach Compact Powercore housing, including glass surfaces, using a mild, non-abrasive cleaner. Ensure that all surfaces are dry, and that the gasket is properly fitted to the lens.

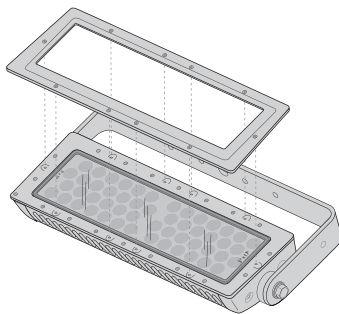
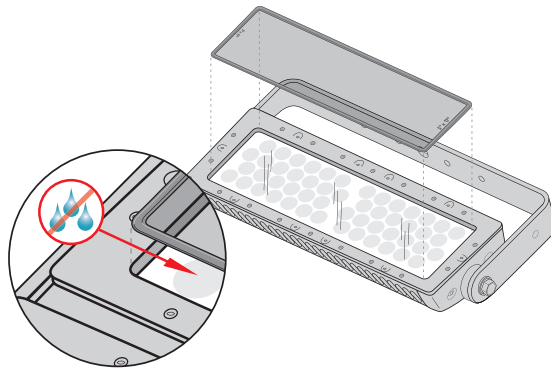


 For installation in extreme environments, refer to the Reach Spread Lens Kit Installation Instructions for details on sealing the spread lens and bezel to prohibit water ingress.

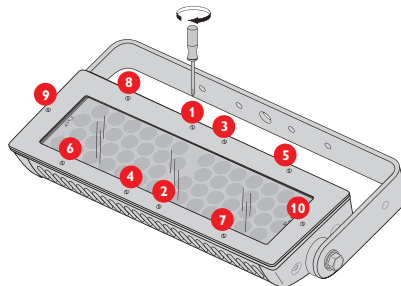
- Position the spread lens so that the beam-angle designation on the side of the lens is face up. Handle the spread lens by the gasket, making sure not to touch or soil either surface of the spread lens.



- Place the spread lens on top of the iW Reach Compact Powercore housing. Make sure that the spread lens and gasket are seated properly within the fixture housing. Also make sure that there is no moisture between the spread lens and the glass, as any moisture will compromise the effectiveness of the spread lens.



- Position the bezel over the spread lens.
- With a standard #2 Phillips screwdriver, attach the bezel to the fixture housing using the provided screws. To ensure a watertight seal, tighten the screws to approximately 20 – 30 in-lbs (2.2 – 3.4 Nm) in the sequence shown below.



Controlling iW Reach Compact Powercore Fixtures

Philips Color Kinetics offers a number of control options for iW Reach Compact 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 or iColor Keypad. With these controllers, no fixture node addressing or configuration is necessary.


ColorDial Pro and iColor Keypad are a Power-Over-Ethernet (PoE) devices that require a PoE switch, or a conventional Ethernet switch with a PoE injector. Refer to the ColorDial Pro or iColor Keypad documentation for details on how to install and use these controllers with iW Reach Compact Powercore fixtures.

iW Reach Compact Powercore has three LED channels, warm, neutral, and cool. You can easily control all fixtures in unison using the Fixed Color effect in iColor Player or iColor Keypad, or the Fixed Color or Variable Color effect in ColorDial Pro.

Displaying Dynamic Light Output

For dynamic installations in which you want to display different light output on each iW Reach Compact Powercore fixture 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 Reach Compact Powercore fixtures as you would any color-changing (RGB) fixture.

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

 *ColorDial Pro is an 8-bit controller. You must use a 16-bit compatible controller to operate fixtures in 16-bit mode.*


Addressing iW Reach Compact Powercore Fixtures

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

You address and configure iW Reach Compact Powercore fixtures using QuickPlay Pro addressing and configuration 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.

- In Ethernet installations, you can address and configure 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 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.

iW Reach Compact 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 download QuickPlay Pro addressing and configuration software from www.philipscolorkinetics.com/support/addressing.*

LED Channels

RGB	iW Reach Compact Powercore
Red	Warm
Green	Neutral
Blue	Cool

You can address and configure iW Reach Compact Powercore fixtures in much the same way as you would address any RGB fixture. The red channel corresponds to the warm LEDs, the green channel corresponds to the neutral LEDs, and the blue channel corresponds to the cool LEDs.

iW Reach Compact 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, you must assign unique DMX addresses to your fixtures and sort them in a useful order.

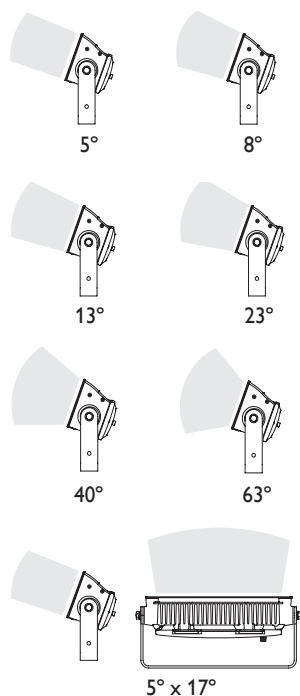
The following table shows the DMX channel assignments for the different possible iW Reach Compact Powercore configurations, assuming a starting DMX address of 1.

DMX Channel Assignments Per Fixture

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

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

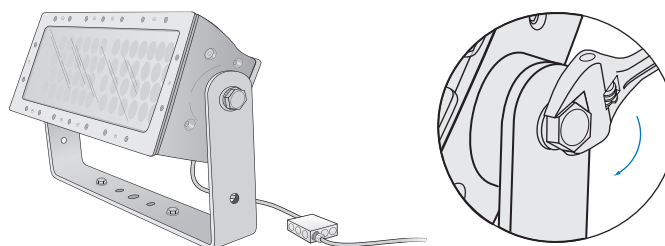
***** For exterior applications with direct exposure to water, iW Reach Compact Powercore fixtures should not be aimed directly upwards, as water may pool on the lens and affect beam quality. Instead, the fixture should be angled to allow for proper water drainage.



Aim and Lock the Fixtures

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

1. Aim the fixtures by rotating each fixture to the correct angle.
2. Lock the fixtures by tightening the locking bolts using a 28 mm hex or adjustable wrench.





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