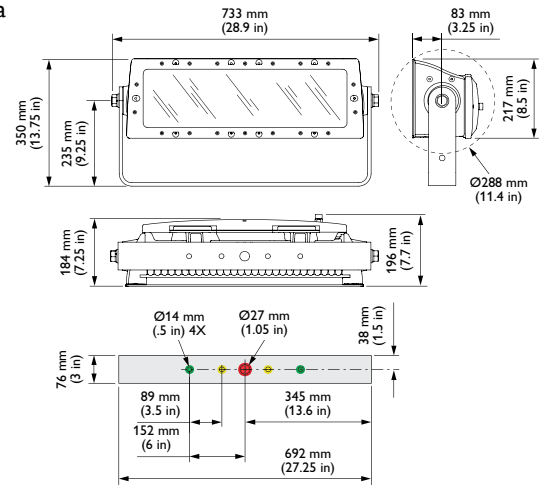# iW Reach Compact Powercore
5° × 17° asymmetric spread lens, CQC

Premium long-throw compact exterior LED floodlight with intelligent white light

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.

- Intense light output — 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.

- 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 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.
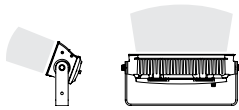
For detailed product information, please refer to the iW Reach Compact Powercore Product Guide at www.philipscolorkinetics.com/ls/intelliwhite/iwreachcompact/

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Photometrics

5° x 17° spread lens

Lumens	6124
Efficacy	49.0 lm / W

Polar Candela Distribution

Cd: 0 / 26,667 / 53,333 / 80,000 / 106,667 / 133,333 / 160,000

VA: 0° 10° 20° 30° 40°

■ - 0° H   ■ - 90° H
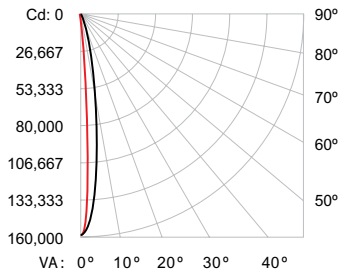
	0	25	45	70	90
0	159770	159770	159770	159770	159770
5	118763	80410	45588	21788	16621
15	15752	1783	874	619	590
25	928	293	243	228	233
35	253	152	136	120	124
45	144	84	73	70	69
55	95	59	52	52	53
65	67	47	41	40	38
75	46	37	33	32	31
85	31	30	29	30	30
90	29	29	29	30	30

Illuminance at Distance

Distance	fc	Vert.	Horiz.
4 ft	9,986 fc	1.1 ft	0.4 ft
8 ft	2,496 fc	2.3 ft	0.8 ft
12 ft	1,110 fc	3.4 ft	1.2 ft
16 ft	624 fc	4.6 ft	1.6 ft
20 ft	399 fc	5.7 ft	2.0 ft
24 ft	277 fc	6.8 ft	2.4 ft
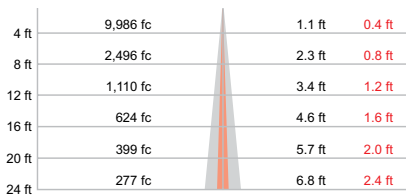
400 ft (121.9 m)
1 fc maximum distance

■ Vert. Spread: 16.2°
■ Horiz. Spread: 5.8°

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	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100
1	116	114	112	110	113	112	110	98	108	106	105	104	103	102	101	100	99	98
2	113	109	107	105	111	108	106	96	105	103	101	102	101	99	99	98	97	96
3	110	106	103	101	108	105	102	95	102	100	98	100	98	97	98	97	96	94
4	108	103	100	98	106	102	100	94	101	98	96	99	97	95	97	96	94	93
5	106	101	98	96	105	100	97	93	99	96	94	97	95	94	96	94	93	92
6	104	99	96	94	103	99	96	92	97	95	93	96	94	92	95	93	92	91
7	102	98	94	92	101	97	94	91	96	93	92	95	93	91	94	92	91	90
8	101	96	93	91	100	96	93	90	95	92	91	94	92	90	93	91	90	89
9	100	95	92	90	99	94	92	89	94	91	90	93	91	89	93	91	89	88
10	98	94	91	89	98	93	91	88	93	90	89	92	90	88	92	90	88	88

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6011.2	98.2 %
60 - 90	112.8	1.8 %
0 - 90	6124.0	100.0 %

For lux multiply fc by 10.7

Specifications

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

Item	Specification	Details
Output	Color Temperature*	2700 K – 6500 K
	Lumens†	6124
	Efficacy (lm / W)	49.0
	CRI	79 (no spread lens, all channels full on)
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	125 W
	Power Factor	.992 (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 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	CQC, CE, FCC Class A, PSE
	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.

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Lumen Maintenance

Threshold*	Ambient Temperature	Reported†	Calculated†
L$_{90}$	@ 25°C	42,000 hrs	84,000 hrs
	@ 50°C	42,000 hrs	48,000 hrs
L$_{80}$	@ 25°C	42,000 hrs	>100,000 hrs
	@ 50°C	42,000 hrs	>100,000 hrs
L$_{70}$	@ 25°C	42,000 hrs	>100,000 hrs
	@ 50°C	42,000 hrs	>100,000 hrs

* L$_{xx}$ = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B$_{50}$, 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-80-80 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

Fixtures and Data Enabler Pro

Item	Type	Item Number	Philips 12NC
iW Reach Compact Powercore *Includes 6 ft (1.8 m) leader cable*	CQC / CE / PSE	523-000083-02	912400130286
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.

Accessories

Item	Type	Item Number	Philips 12NC
Replacement Leader Cable 6 ft (1.8 m)	CQC / 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

Use Item Number when ordering in North America.

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