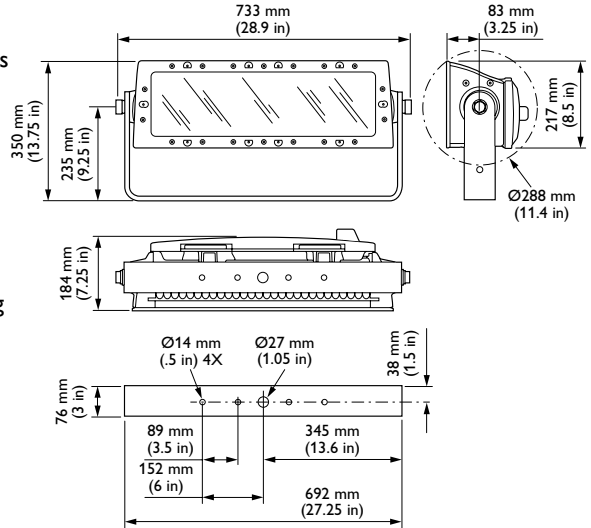# iW Reach Compact Powercore

8° spread lens, UL / CE

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 – 277 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/
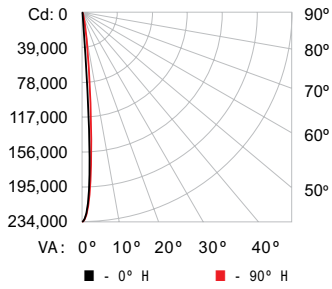
PHILIPS

Photometrics
8° spread lens

Lumens	6185
Efficacy	49.6 lm / W

Polar Candela Distribution

Cd: 0
39,000
78,000
117,000
156,000
195,000
234,000

VA: 0° 10° 20° 30° 40°

■ - 0° H   ■ - 90° H

	0	25	45	70	90
0	233520	233520	233520	233520	233520
5	80126	76004	74534	74515	72919
15	968	965	959	952	952
25	257	257	260	260	286
35	143	139	133	132	169
45	80	75	72	75	77
55	60	59	52	55	54
65	47	45	41	42	40
75	37	35	33	33	32
85	31	30	30	30	30
90	30	30	30	30	30

Illuminance at Distance

	Center Beam fc	Beam Width	
4 ft	14,595 fc	0.6 ft	0.6 ft
8 ft	3,649 fc	1.1 ft	1.1 ft
12 ft	1,622 fc	1.7 ft	1.7 ft
16 ft	912 fc	2.3 ft	2.2 ft
20 ft	584 fc	2.9 ft	2.8 ft
24 ft	405 fc	3.4 ft	3.3 ft

484 ft (147.5 m)
1 fc maximum distance

■ Vert. Spread: 8.2°
■ Horiz. Spread: 7.9°

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

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6074.6	98.2 %
60 - 90	110.8	1.8 %
0 - 90	6185.4	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†	6185
	Efficacy (lm / W)	49.6
	CRI	79 (no spread lens, all channels full on)
Electrical	Input Voltage	100 – 277 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	UL / cUL, FCC Class A, CE, 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.

Lumen Maintenance

Threshold*	Ambient Temperature	Reported†	Calculated†
L90	@ 25°C	42,000 hrs	84,000 hrs
	@ 50°C	42,000 hrs	48,000 hrs
L80	@ 25°C	42,000 hrs	>100,000 hrs
	@ 50°C	42,000 hrs	>100,000 hrs
L70	@ 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 3.0 m (10 ft) leader cable*	UL / cUL		523-000096-00	912400130189
	CE / PSE		523-000096-01	912400130234
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)	UL	3.0 m (10 ft)	108-000055-03	910503704066
		15.2 m (50 ft)	108-000055-00	910503703137
	CE	3.0 m (10 ft)	108-000055-04	910503704067
		15.2 m (50 ft)	108-000055-01	910503704064
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.