Date: _____ Type: _____

Firm Name: _____

Project: _____

iW Reach Compact Powercore
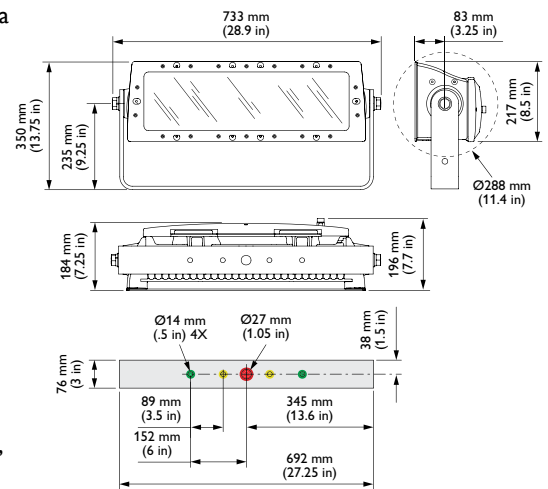## 13° spread lens, CQC

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/
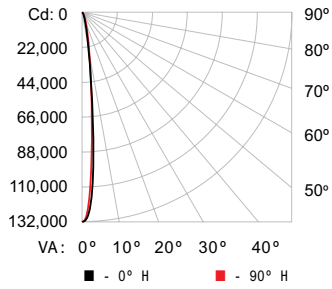
PHILIPS

Photometrics
13° spread lens

Lumens	6053
Efficacy	48.7 lm / W

Polar Candela Distribution

Cd: 0		90°
22,000		80°
44,000		70°
66,000		60°
88,000		
110,000		50°
132,000		

VA: 0° 10° 20° 30° 40°

■ - 0° H   ■ - 90° H

	0	25	45	70	90
0	131430	131430	131430	131430	131430
5	72586	67680	64489	63159	62851
15	2077	1839	1593	1401	1345
25	279	273	267	264	278
35	155	149	140	138	161
45	84	79	74	75	79
55	59	57	52	53	53
65	46	44	41	40	40
75	36	35	33	32	32
85	30	29	29	29	29
90	29	29	29	29	29

Illuminance at Distance

	Center Beam fc	Beam Width	
4 ft	8,214 fc	0.8 ft	0.7 ft
8 ft	2,054 fc	1.6 ft	1.4 ft
12 ft	913 fc	2.4 ft	2.1 ft
16 ft	513 fc	3.2 ft	2.8 ft
20 ft	329 fc	4.1 ft	3.5 ft
24 ft	228 fc	4.9 ft	4.2 ft

363 ft (110.6 m)
1 fc maximum distance

■ Vert. Spread: 11.6°
■ Horiz. Spread: 10.1°

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

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5944.8	98.2 %
60 - 90	108.6	1.8 %
0 - 90	6053.4	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†	6053
	Efficacy (lm / W)	48.7
	CRI	82 (native beam, 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.