Date: _____ Type: _____

Firm Name: _____

Project: _____

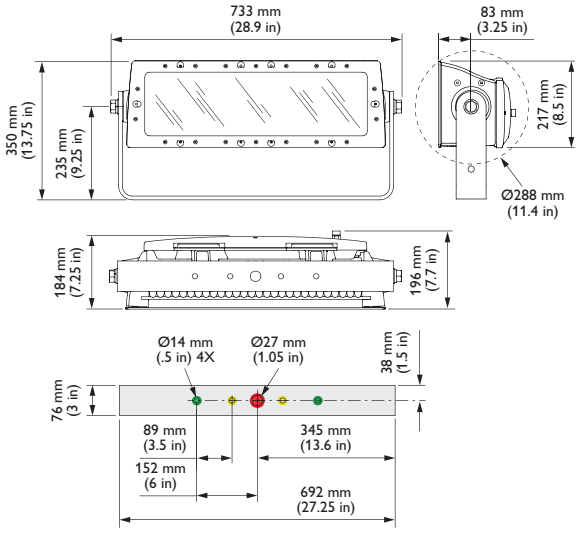
iW Reach Compact Powercore

40° spread lens

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

Specifications

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

Item	Specification	Details
Output	Color Temperature*	2700 K – 6500 K
	Lumens†	5168
	Efficacy (lm / W)	41.8
	CRI	82 (no spread lens, all channels full on)
	Lumen Maintenance‡	60,000 hours L_{70} @ 25° C 50,000 hours L_{70} @ 50° C 100,000 hours L_{50} @ 25° C 80,000 hours L_{50} @ 50° C
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz
	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 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, C-Tick
	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.

‡ L_{50} = 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

Fixtures and Data Enabler Pro

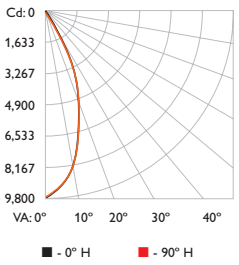
Item	Type	Item Number	Philips 12NC
iW Reach Compact Powercore *Includes 6 ft (1.8 m) leader cable*	UL / cUL	523-000083-00	**910503703280**
	CE / PSE	523-000083-01	**910503704181**
Data Enabler Pro	3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211

Use Item Number when ordering in North America.

Photometrics

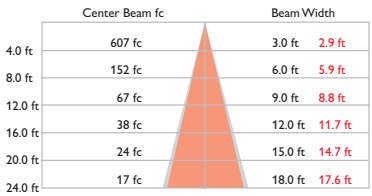
40° spread lens

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
90°					
0	9710	9710	9710	9710	9710
80°					
5	9294	9286	9299	9263	9220
15	6706	6697	6693	6653	6620
70°					
25	3418	3390	3325	3267	3237
35	1082	1060	1013	984	976
60°					
45	215	208	197	196	197
55	67	65	62	65	65
65	34	34	34	35	35
50°					
75	11	12	11	14	15
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



98.5 ft (30.0 m)
1 fc maximum distance

■ Vert. Spread: 41.0°
■ Horiz. Spread: 40.2°

Lumens	5168
Efficacy	41.8 lm / W

For lux multiply fc by 10.7

Accessories

Item	Type	Item Number	Philips 12NC
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

Use Item Number when ordering in North America.

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