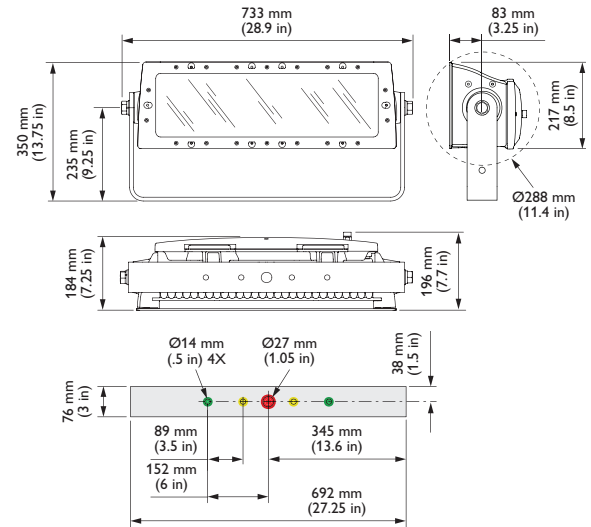# eW Reach Compact Powercore

5° native (no spread lens)

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

eW Reach Compact Powercore combines all the benefits of LED-based lighting in a compact fixture specifically designed for large-scale installations calling for high-quality white light, including commercial skyscrapers, casinos, large retail exteriors, bridges, piers, public monuments, and themed attractions. With levels of light output and projection never before achieved in a compact LED lighting fixture, eW Reach Compact Powercore delivers intense, energy-efficient output at a reasonable price, opening up new possibilities for exterior illumination. Standard configurations include a warm 2700 K and a cool 4000 K, with six additional color temperatures available, ranging from 3000 K to 6500 K.

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

- Integrates Powercore technology — Fixtures rapidly, efficiently, and accurately process power directly from line voltage, eliminating the need for additional, external power supplies.

- 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 ship with spread lenses for easy user installation.

- Rich, uniform white light — High-performance LEDs offer rich, uniform white light at significantly less cost for installation, operation, and maintenance than traditional light sources.

- Simple fixture positioning — Rugged, slim-profile mounting bracket allows flexible positioning and fixture rotation through a full 360°. Side locking bolts reliably secure fixture with standard wrench.

- Universal power input range — Accepts a universal power input range of 100 – 240 VAC, allowing long fixture runs and consistent installation in any location around the world.

For detailed product information, please refer to the eW Reach Compact Powercore Product Guide at www.philipscolorkinetics.com/ls/essentialwhite/ewreachcompact/

PHILIPS

Specifications

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

Item	Specification	2700 K*	4000 K*
Output	Lumens†	5263	6022
	Efficacy (lm / W)	41.9	49.1
	Lumen Maintenance‡	60,000 hours L$_{70}$ @ 25° C 100,000 hours L$_{50}$ @ 25° C	50,000 hours L$_{70}$ @ 50° C 80,000 hours L$_{50}$ @ 50° C
	CRI	81 (2700 K) 79 (4000 K)	
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz	
	Power Consumption	125 W	
	Power Factor	.967 @ 120 VAC (2700 K) .961 @ 120 VAC (4000 K)	
Control		On / Off	
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) power 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	
Certification and Safety	Certification	UL / cUL, FCC Class A, CE, PSE, C-Tick	
	Environment	Dry / Damp / Wet Location, IP66	

* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

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

‡ L$_{70}$ = 70% lumen maintenance (when light output drops below 70% of initial output).
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.
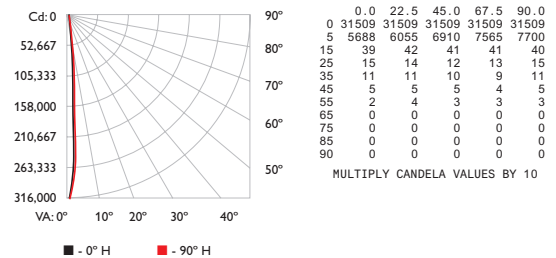
Fixtures and Accessories

Item	Type		Item Number	Philips 12NC
eW Reach Compact Powercore *Includes 6 ft (1.8 m) Leader Cable*	2700 K	UL / cUL	523-000084-00	910503703281
		CE / PSE	523-000084-01	910503703282
	4000 K	UL / cUL	523-000084-06	910503703951
		CE / PSE	523-000084-07	910503704185
Replacement Leader Cable 6 ft (1.8 m)	UL / cUL		108-000046-00	910503700621
	CE / PSE		108-000046-01	910503700622
Spread Lens with bezel	8°		120-000068-05	910503700511
	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

Use Item Number when ordering in North America.

Photometrics

2700 K, 5° native (no spread lens)

Polar Candela Distribution

	0.0	22.5	45.0	67.5	90.0
0	31509	31509	31509	31509	31509
5	5688	6055	6910	7565	7700
15	39	42	41	41	40
25	15	14	12	13	15
35	11	11	10	9	11
45	5	5	5	4	5
55	2	4	3	3	3
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

MULTIPLY CANDELA VALUES BY 10

■ - 0° H   ■ - 90° H

Illuminance at Distance

	Center Beam fc	Beam Width	
4.0 ft	19963 fc	0.5 ft	0.5 ft
8.0 ft	4923 fc	0.9 ft	1.0 ft
12.0 ft	2188 fc	1.4 ft	1.5 ft
16.0 ft	1231 fc	1.8 ft	2.0 ft
20.0 ft	788 fc	2.3 ft	2.5 ft
24.0 ft	547 fc	2.8 ft	3.0 ft

560 ft (170.7 m)
1 fc maximum distance

■ Vert. Spread: 6.6°
■ Horiz. Spread: 7.2°

For lux multiply fc by 10.7

Lumens	5263
Efficacy	41.9 lm / W

4000 K, 5° native (no spread lens)

Polar Candela Distribution

	0.0	22.5	45.0	67.5	90.0
0	33870	33870	33870	33870	33870
5	7216	7582	8422	8960	9079
15	47	46	47	45	45
25	19	18	17	14	15
35	11	8	7	6	7
45	3	2	2	1	0
55	0	2	2	1	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

MULTIPLY CANDELA VALUES BY 10

■ - 0° H   ■ - 90° H
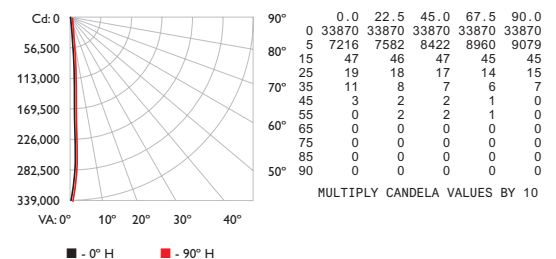
Illuminance at Distance

	Center Beam fc	Beam Width	
4.0 ft	21169 fc	0.5 ft	0.5 ft
8.0 ft	5292 fc	1.0 ft	1.0 ft
12.0 ft	2352 fc	1.4 ft	1.6 ft
16.0 ft	1323 fc	1.9 ft	2.1 ft
20.0 ft	847 fc	2.4 ft	2.6 ft
24.0 ft	588 fc	2.9 ft	3.1 ft

583 ft (177.7 m)
1 fc maximum distance

■ Vert. Spread: 6.8°
■ Horiz. Spread: 7.4°

Lumens	6022
Efficacy	49.1 lm / W

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