



Date: _____ Type: _____

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eW Reach Compact Powercore

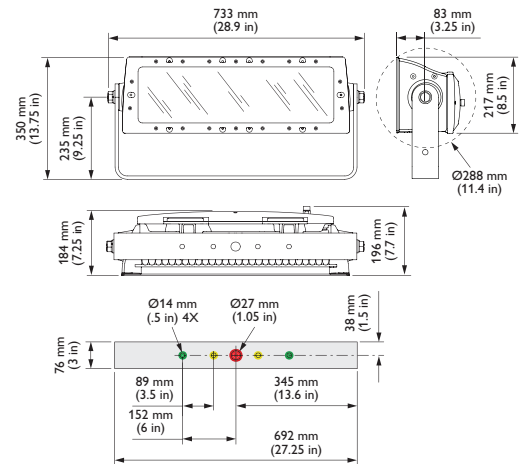
63° spread lens, CQC

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/l/essentialwhite/ewreachcompact/

PHILIPS

2700 K

Lumens	4435
Efficacy	43.2 lm / W

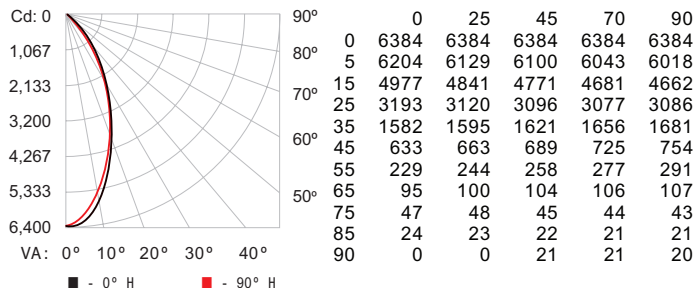


4000 K

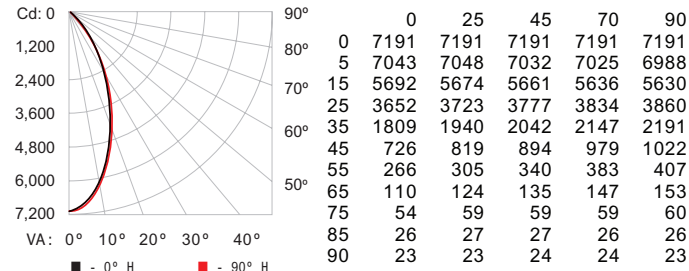
Lumens	6039
Efficacy	49.1 lm / W



Polar Candela Distribution



Polar Candela Distribution



Illuminance at Distance

Center Beam fc	Beam Width
4 ft	399 fc 3.7 ft 3.7 ft
8 ft	100 fc 7.4 ft 7.4 ft
12 ft	44 fc 11.1 ft 11.2 ft
16 ft	25 fc 14.8 ft 14.9 ft
20 ft	16 fc 18.5 ft 18.6 ft
24 ft	11 fc 22.2 ft 22.3 ft

80 ft (24.4 m) ■ Vert. Spread: 49.6°
 1 fc maximum distance ■ Horiz. Spread: 49.9°

Illuminance at Distance

Center Beam fc	Beam Width
4 ft	450 fc 3.7 ft 3.8 ft
8 ft	112 fc 7.5 ft 7.5 ft
12 ft	50 fc 11.2 ft 11.3 ft
16 ft	28 fc 15.0 ft 15.1 ft
20 ft	18 fc 18.7 ft 18.9 ft
24 ft	12 fc 22.4 ft 22.6 ft

85 ft (25.9 m) ■ Vert. Spread: 50.1°
 1 fc maximum distance ■ Horiz. Spread: 50.5°

Coefficients Of Utilization - Zonal Cavity Method

:CC %:	Effective Floor Cavity Reflectance: 20%																								
	80					70					50					30					10				
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0				
:CR: 0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	100	100	100				
1	113	110	107	105	110	108	105	93	103	101	100	100	98	97	96	95	94	92	92	92	92				
2	107	101	97	93	104	99	95	85	96	93	90	93	90	88	90	88	86	84	84	84	84				
3	101	94	88	84	99	92	87	79	90	85	82	87	84	81	85	82	79	78	78	78	78				
4	95	87	81	76	93	86	80	73	84	79	75	82	77	74	80	76	73	72	72	72	72				
5	90	81	75	70	88	80	74	68	78	73	69	76	72	68	75	71	68	66	66	66	66				
6	85	76	69	65	84	75	69	63	73	68	64	72	67	64	70	66	63	62	62	62	62				
7	81	71	64	60	79	70	64	59	69	63	59	68	63	59	66	62	59	57	57	57	57				
8	77	67	60	56	75	66	60	55	65	59	56	64	59	55	63	58	55	54	54	54	54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50				
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47	47	47	47				

Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																								
	80					70					50					30					10				
RW %:	70	50	30	0	70	50	30	0	50	30	20	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	100	100	100				
1	113	110	107	104	110	108	105	93	103	101	100	100	98	97	96	95	94	92	92	92	92				
2	107	101	97	93	104	99	95	85	96	93	90	93	90	88	90	88	86	84	84	84	84				
3	101	94	88	84	99	92	87	79	90	85	82	87	84	81	85	82	79	78	78	78	78				
4	95	87	81	76	93	86	80	73	84	79	75	82	77	74	80	76	73	72	72	72	72				
5	90	81	75	70	88	80	74	67	78	73	69	76	72	68	75	71	68	66	66	66	66				
6	85	76	69	64	84	75	69	63	73	68	64	72	67	64	70	66	63	62	62	62	62				
7	81	71	64	60	79	70	64	59	69	63	59	68	63	59	66	62	59	57	57	57	57				
8	77	66	60	56	75	66	60	55	65	59	56	64	59	55	63	58	55	54	54	54	54				
9	73	63	56	52	72	62	56	51	61	56	52	60	55	52	60	55	52	50	50	50	50				
10	69	59	53	49	68	59	53	48	58	52	49	57	52	49	56	52	49	47	47	47	47				

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5122.8	96.9 %
30 - 90	165.6	3.1 %
0 - 90	5288.4	100.0 %

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5844.5	96.8 %
60 - 90	194.9	3.2 %
0 - 90	6039.4	100.0 %

For lux multiply fc by 10.7

Specifications

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

Item	Specification	2700 K*	4000 K*
Output	Lumens†	5288	6039
	Efficacy (lm / W)	43.2	49.1
	CRI	80	82
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, digital dimming by 4 connector cable & DE Pro	
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	
Certification and Safety	Humidity	0 – 95%, non-condensing	
	Certification	CQC, FCC Class A, CE, PSE	
	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.



Lumen Maintenance

Threshold*	Ambient Temperature	Reported†	Calculated†
L90	@ 25°C	42,400 hrs	42,400 hrs
	@ 50°C	42,400 hrs	42,400 hrs
L80	@ 25°C	>100,000 hrs	>100,000 hrs
	@ 50°C	>100,000 hrs	>100,000 hrs
L70	@ 25°C	>100,000 hrs	>100,000 hrs
	@ 50°C	>100,000 hrs	>100,000 hrs

* L_{xx} = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B50, 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-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

Fixtures and Accessories

Item	Type	Item Number	Philips 12NC
eW Reach Compact Powercore	2700K CQC	523-000084-20	912400130287
Includes 6 ft (1.8 m) Leader Cable	4000K CQC	523-000084-23	912400130290
3 Conductor Replacement Leader Cable: 6 ft (1.8 m)	CE	108-000046-01	910503700621
4 Conductor Replacement Leader Cable (required to digitally dim unit, w/ DE Pro): 6 ft (1.8 m)	CE	108-000043-03	910503700454
Data Enabler Pro (required to digitally dim unit)	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211
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.



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