



Date: _____ Type: _____

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Project: _____

eW Reach Compact Powercore

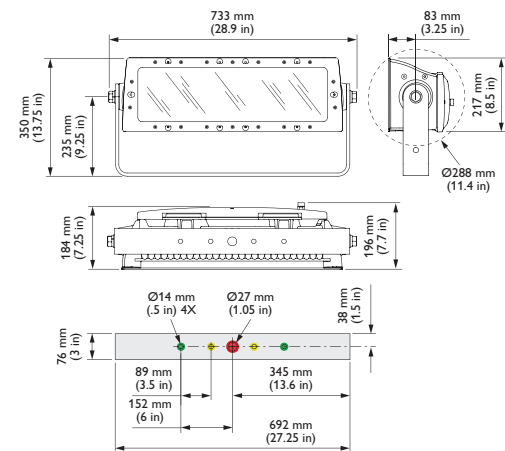
13° spread lens, CQC

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.

- Saturated, cost-effective color — High-performance LEDs offer rich, saturated color 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

Photometrics

2700 K

Lumens	5261
Efficacy	43 lm / W

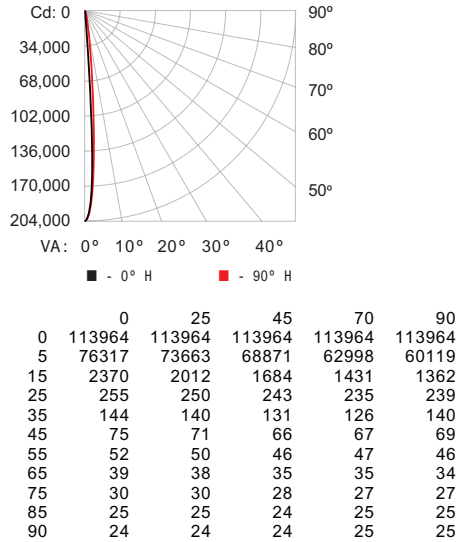


4000 K

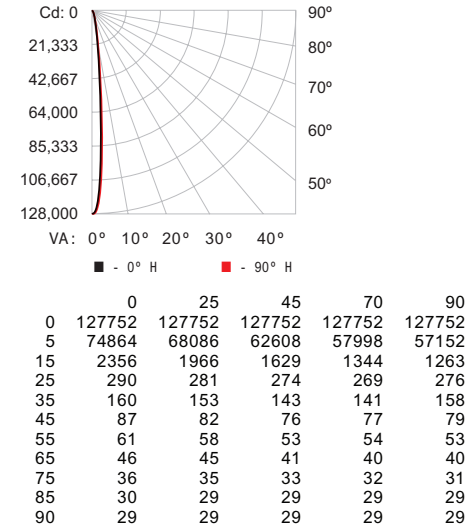
Lumens	6026
Efficacy	48.9 lm / W



Polar Candela Distribution



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	7,123 fc	0.8 ft 0.7 ft
8 ft	1,781 fc	1.6 ft 1.4 ft
12 ft	791 fc	2.4 ft 2.1 ft
16 ft	445 fc	3.2 ft 2.8 ft
20 ft	285 fc	4.0 ft 3.5 ft
24 ft	198 fc	4.8 ft 4.2 ft

338 ft (103.0 m)
1 fc maximum distance

■ Vert. Spread: 11.3°
■ Horiz. Spread: 10.1°

Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	7,985 fc	0.8 ft 0.7 ft
8 ft	1,996 fc	1.6 ft 1.4 ft
12 ft	887 fc	2.4 ft 2.2 ft
16 ft	499 fc	3.2 ft 2.9 ft
20 ft	319 fc	4.1 ft 3.6 ft
24 ft	222 fc	4.9 ft 4.3 ft

358 ft (86.8 m)
1 fc maximum distance

■ Vert. Spread: 11.6°
■ Horiz. Spread: 10.3°

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RCC %:		80			70			50			30		
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR:	0	119	119	119	119	116	116	116	100	111	111	111	106
	1	116	114	112	111	113	112	110	98	108	107	106	104
	2	113	110	107	105	111	108	106	97	105	103	102	102
	3	110	107	104	102	109	106	103	96	103	101	99	101
	4	108	104	101	99	107	103	100	95	101	99	97	100
	5	107	102	99	97	105	101	99	94	100	98	96	99
	6	105	100	97	95	104	100	97	93	99	96	94	97
	7	104	99	96	94	103	98	96	92	97	95	93	97
	8	102	98	95	93	101	97	95	92	96	94	92	96
	9	101	97	94	92	100	96	94	91	96	93	91	95
	10	100	96	93	91	99	95	93	90	95	92	91	94

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RCC %:		80			70			50			30		
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR:	0	119	119	119	119	116	116	116	100	111	111	111	106
	1	116	114	112	111	113	112	110	98	108	107	106	104
	2	113	110	107	105	111	108	106	97	105	103	102	102
	3	110	107	104	102	109	105	103	96	103	101	99	101
	4	108	104	101	99	107	103	100	95	101	99	97	100
	5	106	102	99	97	105	101	98	94	100	97	96	98
	6	105	100	97	95	104	100	97	93	98	96	94	97
	7	103	99	96	94	102	98	95	92	97	95	93	96
	8	102	98	95	93	101	97	94	91	96	94	92	95
	9	101	96	94	92	100	96	93	91	95	93	91	94
	10	100	95	93	91	99	95	93	90	94	92	90	93

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5169.1	98.2 %
60 - 90	92.3	1.8 %
0 - 90	5261.4	100.0 %

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	59179	982 %
60 - 90	1082	18 %
0 - 90	60261	1000 %

For lux multiply fc by 10.7

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†	5261	6026
	Efficacy (lm / W)	43	48.9
	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 m²	
	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	FCC Class A, CE, PSE, CQC	
	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 <i>Includes 6 ft (1.8 m) Leader Cable</i>	2700K CQC	523-000084-20	912400130287
	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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