



Date: _____ Type: _____

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Project: _____

eW Reach Compact Powercore

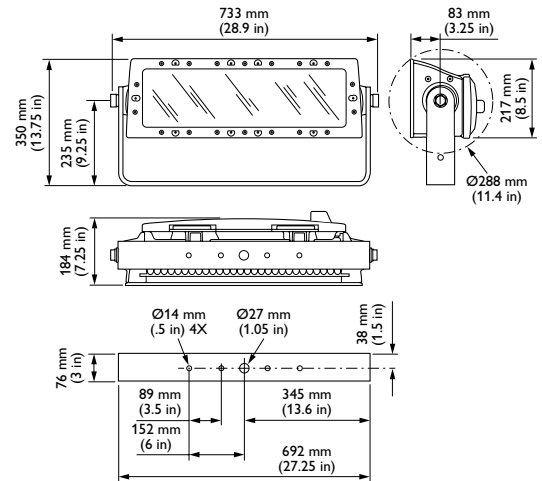
13° spread lens, UL / CE

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 – 277 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 / eW Reach Compact Powercore, 13° spread lens

2700 K

Lumens	5261
Efficacy	43 lm / W

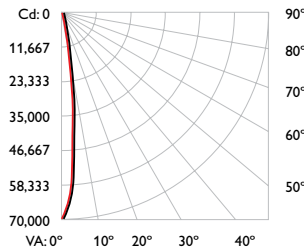


4000 K

Lumens	6026
Efficacy	48.9 lm / W

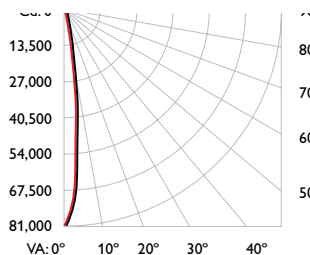


Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	69128	69128	69128	69128	69128
5	47124	47066	46973	46723	46552
15	2804	2694	2444	2248	2163
25	206	208	188	186	176
35	108	110	98	95	98
45	44	54	46	34	39
55	24	32	27	20	15
65	10	10	7	2	2
75	2	0	2	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	80173	80173	80173	80173	80173
5	56000	55835	55764	55366	55210
15	3287	3145	2883	2642	2533
25	206	191	181	173	167
35	117	99	95	97	101
45	54	45	45	47	47
55	23	18	19	21	23
65	8	8	8	10	8
75	4	4	8	8	8
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft: 4321 fc	0.9 ft 0.9 ft
8.0 ft: 1080 fc	1.9 ft 1.9 ft
12.0 ft: 480 fc	2.8 ft 2.8 ft
16.0 ft: 270 fc	3.8 ft 3.7 ft
20.0 ft: 173 fc	4.7 ft 4.7 ft
24.0 ft: 120 fc	5.7 ft 5.6 ft

263 ft (80.2 m) Vert. Spread: 13.5°
 1 fc maximum distance Horiz. Spread: 13.3°

Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft: 5011 fc	1.0 ft 0.9 ft
8.0 ft: 1253 fc	1.9 ft 1.9 ft
12.0 ft: 557 fc	2.9 ft 2.8 ft
16.0 ft: 313 fc	3.9 ft 3.8 ft
20.0 ft: 200 fc	4.8 ft 4.7 ft
24.0 ft: 139 fc	5.8 ft 5.7 ft

283 ft (86.3 m) Vert. Spread: 13.8°
 1 fc maximum distance Horiz. Spread: 13.5°

Coefficients Of Utilization - Zonal Cavity Method Extra Simulus

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	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	116	114	112	111	113	112	110	98	108	107	106	104	103	103	101	100	100	98	98	98	96
2	113	110	107	105	111	108	106	97	105	103	102	102	101	100	100	99	98	96	96	96	95
3	110	107	104	102	109	106	103	96	103	101	99	101	99	98	99	98	96	95	95	95	94
4	108	104	101	99	107	103	100	95	101	99	97	100	98	96	98	96	95	94	94	94	93
5	107	102	99	97	105	101	99	94	100	98	96	99	96	95	97	96	94	93	93	93	92
6	105	100	97	95	104	100	97	93	99	96	94	97	95	94	96	95	93	92	92	92	91
7	104	99	96	94	103	98	96	92	97	95	93	97	94	93	96	94	92	92	92	92	91
8	102	98	95	93	101	97	95	92	96	94	92	96	94	92	95	93	92	91	91	91	90
9	101	97	94	92	100	96	94	91	96	93	92	95	93	91	94	92	91	90	90	90	90
10	100	96	93	91	99	95	93	90	95	92	91	94	92	91	94	92	90	90	90	90	90

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	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	116	114	112	111	113	112	110	98	108	107	106	104	103	103	101	100	100	98	98	98	96
2	113	110	107	105	111	108	106	97	105	103	102	102	101	100	100	99	98	96	96	96	95
3	110	107	104	102	109	105	103	96	103	101	99	101	99	98	99	98	96	95	95	95	94
4	108	104	101	99	107	103	100	95	101	99	97	100	98	96	98	96	95	94	94	94	93
5	106	102	99	97	105	101	98	94	100	97	96	98	96	95	97	95	94	93	93	93	92
6	105	100	97	95	104	100	97	93	98	96	94	97	95	94	96	94	93	92	92	92	91
7	103	99	96	94	102	98	95	92	97	95	93	96	94	93	96	94	92	92	92	92	91
8	102	98	95	93	101	97	94	91	96	94	92	96	93	92	95	93	92	91	91	91	90
9	101	96	94	92	100	96	93	91	95	93	91	95	93	91	94	92	91	90	90	90	90
10	100	95	93	91	99	95	93	90	94	92	91	94	92	90	93	92	90	90	90	90	90

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 – 277 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, 10 ft (3.0 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	
	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 10 ft (3.0 m) Leader Cable</i>	2700K	UL / cUL	523-000095-00	910503703281
		CE / PSE	523-000095-06	912400130228
	4000K	UL / cUL	523-000095-03	912400130225
		CE / PSE	523-000095-09	912400130231
3 Conductor Replacement Leader Cable:	10 ft (3.0 m)	UL / cUL	108-000056-03	910503704071
		CE / PSE	108-000056-04	910503704072
	50 ft (15.2 m)	UL / cUL	108-000056-00	910503703138
		CE / PSE	108-000056-01	910503704069
4 Conductor Replacement Leader Cable: (required to digitally dim unit, w/ DE Pro)	10 ft (3.0 m)	UL / cUL	108-000055-03	910503704066
		CE / PSE	108-000055-04	910503704067
	50 ft (15.2m)	UL / cUL	108-000055-00	910503703137
		CE / PSE	108-000055-01	910503704064
Data Enabler Pro (required to digitally dim unit)	3/4 in / 1/2 in NPT (US trade size conduit)	106-000004-00	910503701210	
	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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DAS-000140-03 R00 08-14