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Project: _____

eW Reach Compact Powercore

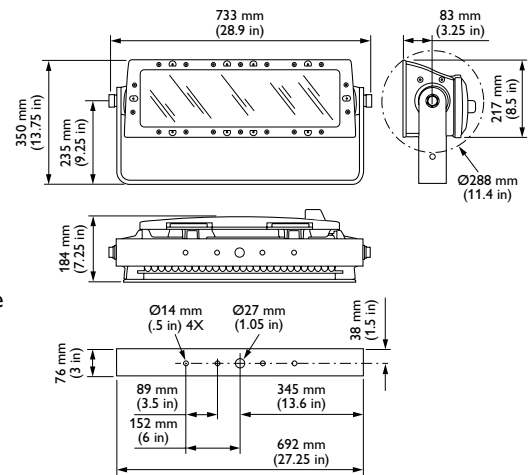
63° spread lens, UL / CE

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.

- 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 – 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/l/essentialwhite/ewreachcompact/



Photometrics / eW Reach Compact Powercore, 63° spread lens

2700 K

Lumens	4435
Efficacy	43.2 lm / W

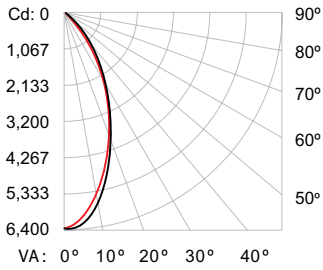


4000 K

Lumens	6039
Efficacy	49.1 lm / W

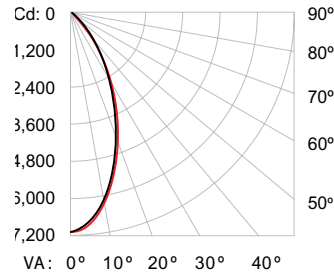


Polar Candela Distribution



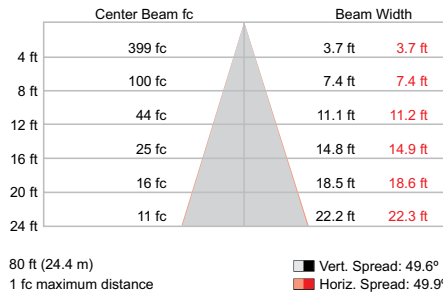
	0	25	45	70	90
0	6384	6384	6384	6384	6384
5	6204	6129	6100	6043	6018
15	4977	4841	4771	4681	4662
25	3193	3120	3096	3077	3086
35	1582	1595	1621	1656	1681
45	633	663	689	725	754
55	229	244	258	277	291
65	95	100	104	106	107
75	47	48	45	44	43
85	24	23	22	21	21
90	0	0	21	21	20

Polar Candela Distribution

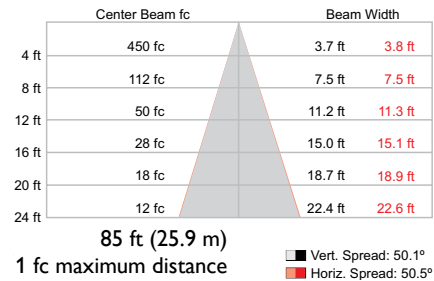


	0	25	45	70	90
0	7191	7191	7191	7191	7191
5	7043	7048	7032	7025	6988
15	5692	5674	5661	5636	5630
25	3652	3723	3777	3834	3860
35	1809	1940	2042	2147	2191
45	726	819	894	979	1022
55	266	305	340	383	407
65	110	124	135	147	153
75	54	59	59	59	60
85	26	27	27	26	26
90	23	23	24	24	23

Illuminance at Distance



Illuminance at Distance



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

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

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RW %:	70	50	30	0	50	30	20	0			
RCR:	0	1	2	3	4	5	6	7	8	9	10
0	119	119	119	119	116	116	116	100	111	111	111
1	113	110	107	104	110	108	105	93	103	101	100
2	107	101	97	93	104	99	95	85	96	93	90
3	101	94	88	84	99	92	87	79	89	85	82
4	95	87	81	76	93	86	80	73	83	79	75
5	90	81	75	70	88	80	74	67	78	73	69
6	85	76	69	64	84	75	69	63	73	68	64
7	81	71	64	60	79	70	64	59	69	63	59
8	77	66	60	56	75	66	60	55	65	59	55
9	73	63	56	52	72	62	56	51	61	56	52
10	69	59	53	49	68	59	53	48	58	52	49

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5122.8	96.9 %
60 - 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

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 – 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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