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eW Reach Compact Powercore

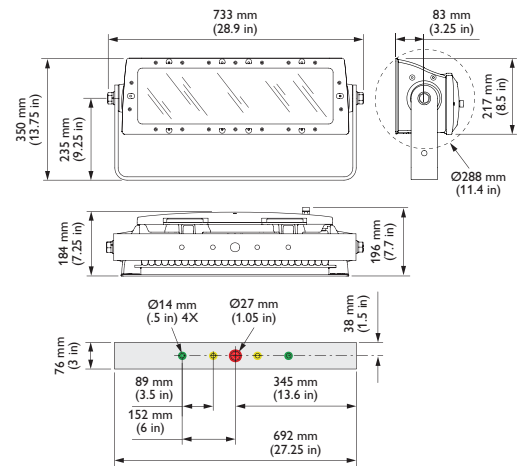
5° x 17° asymmetric spread lens, CQC

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.

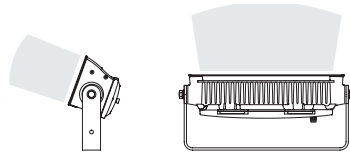
For detailed product information, please refer to the eW Reach Compact Powercore Product Guide at www.philipscolorkinetics.com/ls/essentialwhite/ewreachcompact/



Photometrics / eW Reach Compact Powercore, 5° x 17° spread lens

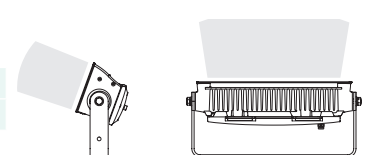
2700 K

Lumens	5390
Efficacy	44 lm / W

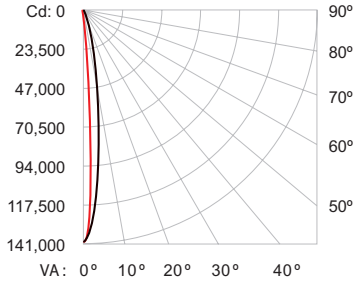


4000 K

Lumens	6224
Efficacy	50.7 lm / W

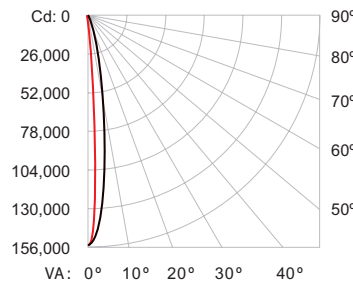


Polar Candela Distribution



	- 0° H					- 90° H				
	0	25	45	70	90	0	25	45	70	90
0	140864	140864	140864	140864	140864	140864	140864	140864	140864	140864
5	105635	86650	51699	25427	20087	105635	86650	51699	25427	20087
15	14559	2281	931	591	551	14559	2281	931	591	551
25	890	278	225	203	204	890	278	225	203	204
35	236	139	125	109	111	236	139	125	109	111
45	133	75	66	62	62	133	75	66	62	62
55	86	51	45	46	47	86	51	45	46	47
65	59	40	36	36	33	59	40	36	36	33
75	39	31	29	27	27	39	31	29	27	27
85	26	25	25	25	25	26	25	25	25	25
90	25	25	25	25	25	25	25	25	25	25

Polar Candela Distribution



	- 0° H					- 90° H				
	0	25	45	70	90	0	25	45	70	90
0	155446	155446	155446	155446	155446	155446	155446	155446	155446	155446
5	111588	69227	38623	20132	16900	111588	69227	38623	20132	16900
15	13978	1696	841	600	571	13978	1696	841	600	571
25	855	290	244	233	231	855	290	244	233	231
35	246	152	136	120	121	246	152	136	120	121
45	140	84	73	71	71	140	84	73	71	71
55	93	60	53	53	51	93	60	53	53	51
65	65	47	42	41	39	65	47	42	41	39
75	45	37	34	32	31	45	37	34	32	31
85	31	30	30	30	30	31	30	30	30	30
90	0	0	0	0	0	0	0	0	0	0

Illuminance at Distance

Distance	Center Beam fc	Beam Width
4 ft	8,804 fc	1.1 ft 0.4 ft
8 ft	2,201 fc	2.3 ft 0.8 ft
12 ft	978 fc	3.4 ft 1.2 ft
16 ft	550 fc	4.5 ft 1.6 ft
20 ft	352 fc	5.7 ft 2.0 ft
24 ft	245 fc	6.8 ft 2.4 ft

375 ft (114.3 m) 1 fc maximum distance
 Vert. Spread: 16.1°
 Horiz. Spread: 5.8°

Illuminance at Distance

Distance	Center Beam fc	Beam Width
4 ft	9,175 fc	1.1 ft 0.4 ft
8 ft	2,429 fc	2.3 ft 0.8 ft
12 ft	1,080 fc	3.4 ft 1.3 ft
16 ft	607 fc	4.6 ft 1.7 ft
20 ft	389 fc	5.7 ft 2.1 ft
24 ft	270 fc	6.9 ft 2.5 ft

365 ft (120.4 m) 1 fc maximum distance
 Vert. Spread: 16.3°
 Horiz. Spread: 6.0°

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	70	50	30	0
0	119	119	119	119	116	116	116	100	111	111	111	100
1	116	114	112	110	113	112	110	98	108	106	105	104
2	113	110	107	105	111	108	106	96	105	103	101	102
3	110	106	103	101	108	105	102	95	103	100	99	100
4	108	103	100	98	106	102	100	94	101	98	96	99
5	106	101	98	96	105	100	97	93	99	96	94	97
6	104	99	96	94	103	99	96	92	97	95	93	96
7	102	98	94	92	101	97	94	91	96	94	92	95
8	101	96	93	91	100	96	93	90	95	92	91	94
9	100	95	92	90	99	94	92	89	94	91	90	93
10	98	94	91	89	98	93	91	88	93	90	88	92

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	70	50	30	0
0	119	119	119	119	116	116	116	100	111	111	111	100
1	116	114	112	110	113	112	110	98	108	106	105	104
2	113	109	107	105	111	108	106	96	105	103	101	102
3	110	106	103	101	108	105	102	95	102	100	98	100
4	108	103	100	98	106	102	99	94	100	98	96	99
5	106	101	98	96	104	100	97	92	99	96	94	97
6	104	99	96	94	103	99	96	91	97	95	93	96
7	102	97	94	92	101	97	94	90	96	93	92	95
8	101	96	93	91	100	96	93	90	95	92	90	94
9	100	95	92	90	99	94	92	89	94	91	89	93
10	98	94	91	89	98	93	91	88	93	90	88	92

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5292.8	98.2 %
60 - 90	96.9	1.8 %
0 - 90	5389.6	100.0 %

For lux multiply fc by 10.7

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6110.9	98.2 %
60 - 90	113.4	1.8 %
0 - 90	6224.3	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†	5390	6224
	Efficacy (lm / W)	44	50.7
	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	
Humidity	0 – 95%, non-condensing		
Certification and Safety	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.



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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