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Project: _____

eW Reach Compact Powercore

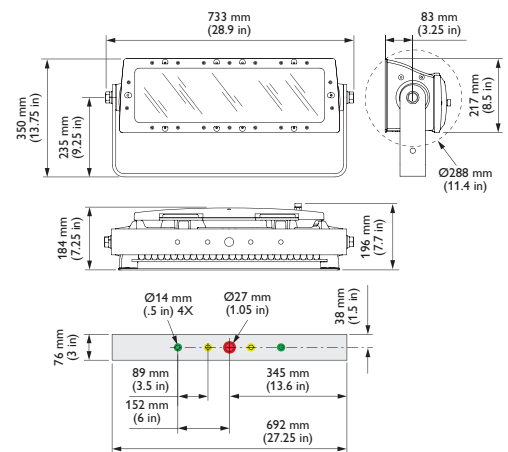
8° spread lens, CQC

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

Photometrics / eW Reach Compact Powercore, 8° spread lens

2700 K

Lumens	5338
Efficacy	43.6 lm / W

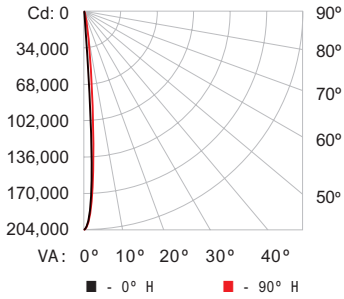


4000 K

Lumens	6145
Efficacy	49.8 lm / W

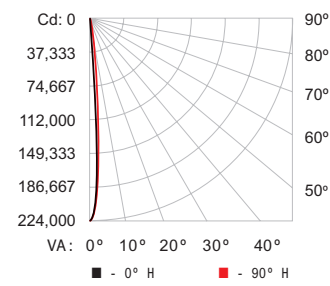


Polar Candela Distribution



	0	25	45	70	90
0	202572	202572	202572	202572	202572
5	87807	88891	85564	77685	71265
15	1014	1031	1014	947	896
25	229	231	235	233	243
35	135	133	126	121	148
45	72	68	64	67	69
55	52	53	46	48	48
65	41	40	36	36	35
75	32	30	28	28	28
85	26	25	25	25	25
90	25	25	25	25	25

Polar Candela Distribution



	0	25	45	70	90
0	223145	223145	223145	223145	223145
5	87803	79979	73659	66662	63316
15	1081	1043	1005	939	906
25	264	264	267	267	284
35	149	144	137	134	163
45	82	78	74	77	78
55	61	61	53	56	54
65	48	46	41	42	41
75	37	35	33	32	32
85	30	30	29	29	29
90	29	29	29	29	29

Illuminance at Distance

Center Beam fc	Beam Width
4 ft	12,661 fc 0.6 ft 0.5 ft
8 ft	3,166 fc 1.1 ft 1.1 ft
12 ft	1,407 fc 1.7 ft 1.6 ft
16 ft	791 fc 2.3 ft 2.2 ft
20 ft	506 fc 2.8 ft 2.7 ft
24 ft	352 fc 3.4 ft 3.3 ft

450 ft (137.16 m) 1 fc maximum distance
 ■ Vert. Spread: 8.1°
 ■ Horiz. Spread: 7.8°

Illuminance at Distance

Center Beam fc	Beam Width
4 ft	13,947 fc 0.6 ft 0.6 ft
8 ft	3,487 fc 1.2 ft 1.1 ft
12 ft	1,550 fc 1.7 ft 1.7 ft
16 ft	872 fc 2.3 ft 2.3 ft
20 ft	558 fc 2.9 ft 2.8 ft
24 ft	387 fc 3.5 ft 3.4 ft

472 ft (143.9 m) 1 fc maximum distance
 ■ Vert. Spread: 8.3°
 ■ Horiz. Spread: 8.1°

Coefficients Of Utilization - Zonal Cavity Method

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

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6034.9	98.2 %
60 - 90	110.0	1.8 %
0 - 90	6144.9	100.0 %

For lux multiply fc by 10.7

Coefficients Of Utilization - Zonal Cavity Method

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

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6034.9	98.2 %
60 - 90	1100	18 %
0 - 90	6144.9	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†	5338	6145
	Efficacy (lm / W)	43.6	49.8
	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 <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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