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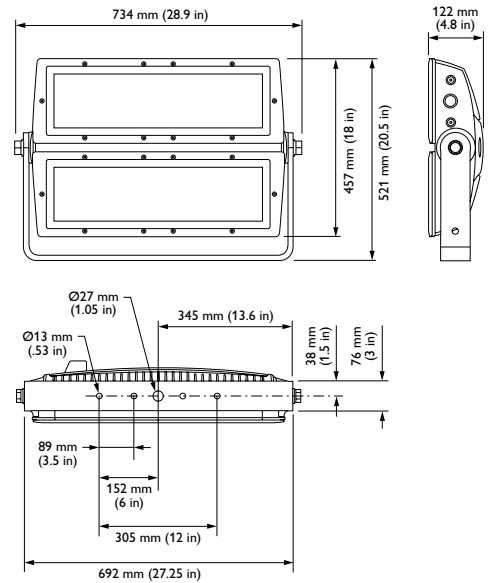
# eW Reach Powercore gen2

## 63° spread lens, UL / CE

Premium long-throw exterior LED floodlight with solid white light

eW Reach Powercore gen2 combines all the benefits of LED-based lighting and control in an elegant fixture specifically designed for large-scale installations, such as skyscrapers, casinos, bridges, piers, public monuments, and themed attractions. With significantly more lumen output than any other competitive fixture and unprecedented light projection, this powerful fixture represents the next generation in exterior illumination. Fixtures are available in a warm 2700 K or a cool 4000 K. Custom configurations with custom channels of white or color LED sources are also available to support special applications.

- Integrates Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage.
- Unparalleled light output — Fixtures produce thousands of lumens and throw light hundreds of feet. eW Reach Powercore gen2 offers legitimate LED-based white light illumination of large-scale structures and objects.
- 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 are included with spread lenses for easy user installation.
- Unique split design — Spread lenses fit over each half of the fixture to support diffuser combinations. For instance, you could use one spread lens on the fixture's lower half to bathe a large façade with light at street level, and a different spread lens to project light hundreds of feet up the building's walls.



- Simple fixture positioning — Rugged, slim-profile mounting bracket allows simple positioning and fixture rotation through a full 360°. Side locking bolts reliably secure fixture with a standard wrench.
- Universal power input range — eW Reach Powercore gen2 accepts a universal power input range of 100 – 277 VAC, allowing consistent installation in any location around the world.

For detailed product information, please refer to the eW Reach Powercore gen2 Product Guide at [www.philipscolorkinetics.com/ls/essentialwhite/ewreach/](http://www.philipscolorkinetics.com/ls/essentialwhite/ewreach/)

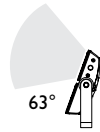


# Photometrics / eW Reach Powercore, 63° spread lens

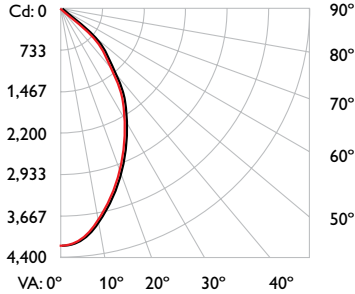
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.philipscolorkinetics.com/support/ies](http://www.philipscolorkinetics.com/support/ies).

## 2700 K

Lumens	5,179
Efficacy	42.3 lm / W



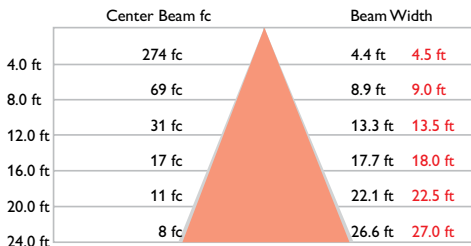
### Polar Candela Distribution



■ - 0° H    ■ - 90° H

	0.0	22.5	45.0	67.5	90.0
0	4386	4386	4386	4386	4386
5	4294	4290	4296	4290	4273
15	3634	3635	3652	3659	3649
25	2637	2642	2663	2675	2668
35	1534	1545	1574	1598	1600
45	671	681	706	732	741
55	223	227	237	250	256
65	71	73	78	83	84
75	22	23	24	29	29
85	0	0	1	3	4
90	0	0	0	0	0

### Illuminance at Distance



■ Vert. Spread: 57.9°  
■ Horiz. Spread: 58.8°

### 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	0					
RCR:	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10	
	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100
	113	110	107	105	110	108	105	93	104	102	100	100	98	97	97	95	94	92	92	92	92	92	92
	107	102	97	93	105	100	96	86	97	93	90	93	91	88	91	89	87	85	85	85	85	85	85
	101	94	89	84	99	93	88	79	90	86	82	87	84	81	85	82	80	78	78	78	78	78	78
	95	87	81	77	94	86	81	73	84	79	75	82	78	75	80	77	74	72	72	72	72	72	72
	90	81	75	70	89	80	75	68	79	73	70	77	72	69	75	71	68	67	67	67	67	67	67
	85	76	70	65	84	75	69	63	74	68	64	72	68	64	71	67	64	62	62	62	62	62	62
	81	71	65	60	80	71	65	59	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58
	77	67	61	56	76	66	60	55	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54
	73	63	57	53	72	63	57	52	62	56	52	61	56	52	60	55	52	51	51	51	51	51	51
	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48	48	48	48	48	48

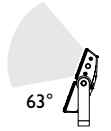
### Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5042.5	97.4 %
60 - 90	136.6	2.6 %
0 - 90	5179.1	100.0 %

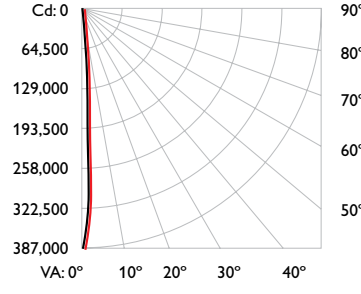
For lux multiply fc by 10.7

## 4000 K

Lumens	6,054
Efficacy	48.3 lm / W



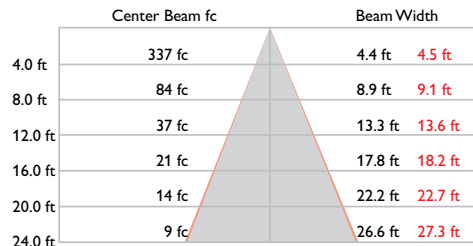
### Polar Candela Distribution



■ - 0° H    ■ - 90° H

	0.0	22.5	45.0	67.5	90.0
0	5387	5387	5387	5387	5387
5	5268	5269	5277	5258	5240
15	4457	4468	4495	4497	4490
25	3244	3257	3293	3308	3309
35	1894	1911	1956	1985	1990
45	830	842	877	907	919
55	275	279	294	309	317
65	85	89	100	102	105
75	25	27	30	35	36
85	0	0	1	3	5
90	0	0	0	0	0

### Illuminance at Distance



■ Vert. Spread: 58.1°  
■ Horiz. Spread: 59.2°

### 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	0					
RCR:	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10	
	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100
	113	110	107	105	110	108	105	93	104	102	100	100	98	97	97	95	94	92	92	92	92	92	92
	107	102	97	93	105	100	96	86	96	93	90	93	91	88	91	89	87	85	85	85	85	85	85
	101	94	89	84	99	93	88	79	90	86	82	87	84	81	85	82	80	78	78	78	78	78	78
	95	87	81	77	94	86	81	73	84	79	75	82	78	75	80	77	74	72	72	72	72	72	72
	90	81	75	70	89	80	75	68	79	73	70	77	72	69	75	71	68	67	67	67	67	67	67
	85	76	70	65	84	75	69	63	74	68	64	72	68	64	71	67	64	62	62	62	62	62	62
	81	71	65	60	80	71	65	59	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58
	77	67	61	56	76	66	60	55	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54
	73	63	57	53	72	63	57	52	62	56	52	61	56	52	60	55	52	51	51	51	51	51	51
	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48	48	48	48	48	48

### Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5893.4	97.3 %
60 - 90	160.9	2.7 %
0 - 90	6054.3	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* (Half Unit)	4000 K* (Half Unit)
Output	Lumens†	5,179	6,054
	Efficacy (lm / W)	42.3	48.3
	CRI	80	82
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz	
	Power Consumption	250 W maximum at full output, steady state	
	Power Factor	.989 @ 120 VAC	
Control		On / Off; digital dimming by 4 connector cable & DE Pro	
Physical	Dimensions (Height x Width x Depth)	20.5 x 28.9 x 4.8 in (521 x 734 x 122 mm)	
	Weight	75 lb (34 kg)	
	Effective Projected Area (EPA)	0.42 m <sup>2</sup>	
	Housing	Die-cast aluminium, powder-coated finish	
	Lens	Tempered glass	
	Fixture Connections	10 ft (3.0 m) Leader Cable	
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>	
Certification and Safety	Humidity	0 – 95%, non-condensing	
	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	42,300 hrs	84,100 hrs
	@ 50°C	42,300 hrs	48,300 hrs
L80	@ 25°C	42,300 hrs	>100,000 hrs
	@ 50°C	42,300 hrs	>100,000 hrs
L70	@ 25°C	42,300 hrs	>100,000 hrs
	@ 50°C	42,300 hrs	>100,000 hrs

\* L<sub>xx</sub> = 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 Powercore gen2 Includes 10 ft (3.0 m) Leader Cable	2700 K	523-000093-00	912400130186	
	4000 K	523-000093-03	912400130213	
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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