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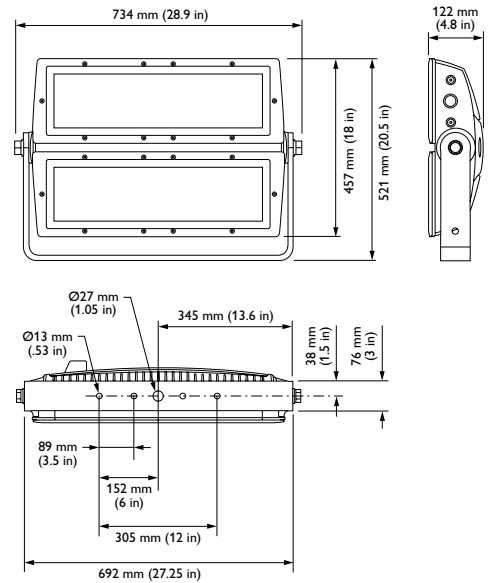
eW Reach Powercore gen2

8° 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/

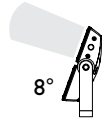


Photometrics / eW Reach Powercore, 8° spread lens

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

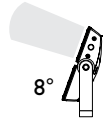
2700 K

Lumens	5306
Efficacy	43.3 lm / W

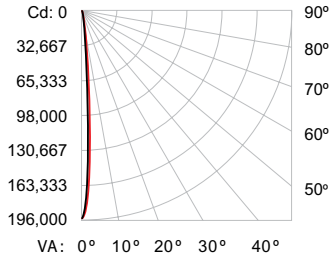


4000 K

Lumens	6227
Efficacy	49.6 lm / W

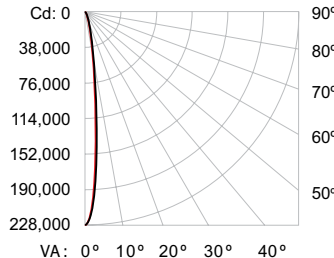


Polar Candela Distribution



	- 0° H					- 90° H				
	0	25	45	70	90	0	25	45	70	90
0	195308	195308	195308	195308	195308	195308	195308	195308	195308	195308
5	64867	68414	71565	74039	75138	64867	68414	71565	74039	75138
15	916	952	991	1004	1013	916	952	991	1004	1013
25	239	240	243	239	256	239	240	243	239	256
35	132	131	126	125	157	132	131	126	125	157
45	71	68	65	68	72	71	68	65	68	72
55	51	52	46	49	49	51	52	46	49	49
65	40	38	35	36	36	40	38	35	36	36
75	31	29	28	28	28	31	29	28	28	28
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	227415	227415	227415	227415	227415	227415	227415	227415	227415	227415
5	88861	89886	88898	84664	81003	88861	89886	88898	84664	81003
15	1115	1132	1138	1084	1039	1115	1132	1138	1084	1039
25	272	273	278	277	295	272	273	278	277	295
35	155	154	148	146	181	155	154	148	146	181
45	85	81	77	80	84	85	81	77	80	84
55	62	62	55	58	58	62	62	55	58	58
65	49	46	42	43	43	49	46	42	43	43
75	38	35	34	33	34	38	35	34	33	34
85	31	30	30	30	30	31	30	30	30	30
90	30	30	30	30	30	30	30	30	30	30

Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	12,2077 fc	0.6 ft 0.6 ft
8 ft	3,052 fc	1.1 ft 1.1 ft
12 ft	1,356 fc	1.7 ft 1.7 ft
16 ft	763 fc	2.3 ft 2.2 ft
20 ft	488 fc	2.9 ft 2.8 ft
24 ft	339 fc	3.4 ft 3.4 ft

443 ft (135.0 m)
1 fc maximum distance
Vert. Spread: 8.2°
Horiz. Spread: 8.0°

Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	14,213 fc	0.6 ft 0.6 ft
8 ft	3,553 fc	1.2 ft 1.1 ft
12 ft	1,579 fc	1.8 ft 1.7 ft
16 ft	888 fc	2.3 ft 2.2 ft
20 ft	569 fc	2.9 ft 2.8 ft
24 ft	395 fc	3.5 ft 3.4 ft

476 ft (145.0 m)
1 fc maximum distance
Vert. Spread: 8.3°
Horiz. Spread: 8.0°

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	50	30	20	50	30	20	0
0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102
1	116	114	112	111	113	112	111	98	108	107	106	104	104	103	101
2	113	110	108	106	111	109	106	97	106	104	102	103	101	100	100
3	111	107	105	102	109	106	104	96	104	102	100	101	100	99	99
4	109	105	102	100	108	104	101	96	102	100	98	100	99	97	99
5	107	103	100	98	106	102	100	95	101	99	97	99	98	96	98
6	106	102	99	97	105	101	98	94	100	97	96	99	97	95	98
7	105	100	97	95	104	100	97	94	99	96	95	98	96	94	97
8	103	99	96	95	103	99	96	93	98	96	94	97	95	94	96
9	102	98	96	94	102	98	95	93	97	95	93	96	94	93	96
10	101	97	95	93	101	97	95	92	96	94	93	95	94	93	92

Coefficients Of Utilization - Zonal Cavity Method

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RCC %:	80		70			50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0
0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102
1	116	114	112	111	113	112	111	98	108	107	106	104	104	103	101
2	113	110	108	106	111	109	106	97	106	104	102	103	101	100	100
3	111	107	105	102	109	106	104	96	104	102	100	102	100	99	99
4	109	105	102	100	108	104	101	96	102	100	98	100	99	97	99
5	107	103	100	98	106	102	100	95	101	99	97	99	98	96	98
6	106	102	99	97	105	101	98	94	100	97	96	99	97	95	98
7	105	100	97	95	104	100	97	94	99	97	95	98	96	94	97
8	103	99	96	95	103	99	96	93	98	96	94	97	95	94	96
9	102	98	96	94	102	98	95	93	97	95	94	96	94	93	96
10	102	97	95	93	101	97	95	93	97	94	93	96	94	93	92

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	5210.2	98.2 %
60 - 90	95.8	1.8 %
0 - 90	5306.0	100.0 %

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	6112.3	98.2 %
60 - 90	114.4	1.8 %
0 - 90	6226.7	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* (Half Unit)	4000 K* (Half Unit)
Output	Lumens†	5306	6227
	Efficacy (lm / W)	43.3	49.6
	CRI	80	83
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 ²	
	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 www.philipscolorkinetics.com/support/install_tool/	
	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	42,300 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_{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 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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DAS-000136-03 R00 8-14