



eW Reach Powercore

Next-generation white LED floodlight for signature façades and structures

PHILIPS

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eW® Reach Powercore is the first white light / solid-color exterior architectural LED floodlight powerful enough to brilliantly and dynamically illuminate large architectural façades. eW Reach Powercore combines all the benefits of LED-based lighting in an elegant fixture specifically designed for large-scale installations, such as commercial skyscrapers, casinos, large retail exteriors, bridges, piers, public monuments, and themed attractions. With significantly more lumen output than any other competitive fixture and unprecedented light projection of over 800 ft (243.8 m), this powerful fixture represents the next generation in exterior illumination. Fixtures are available in eight color temperatures, ranging from a warm 2700 K to a cool 6500 K, and five solid colors — Royal Blue, Blue, Green, Amber, and Red.

- Integrates patented Powercore® technology — Powercore technology rapidly, efficiently, and accurately controls power output to eW Reach Powercore fixtures 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.
- 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 flexible positioning and fixture rotation through a full 360°. Side locking bolts reliably secure fixture with standard wrench.
- Universal power input range — eW Reach Powercore accepts a universal power input range of 100 – 240 VAC, allowing long fixture runs and consistent installation in any location around the world.



Unparalleled Light Output

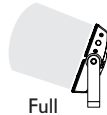
With an output of over 11,000 lumens and light projection of over 800 feet (243.8 m) at 4000 K, eW Reach Powercore is the first fixture to offer legitimate LED-based white light illumination of large-scale structures and objects.

Photometrics

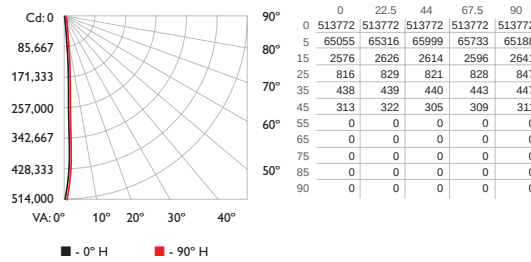
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.colorkinetics.com/support/ies.

eW Reach Powercore 2700 K Without spread lens, full unit

Lumens	8,612
Efficacy	34.4 lm / W



Polar Candela Distribution



Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	32111 fc 0.4 ft 0.4 ft
8.0 ft	8028 fc 0.8 ft 0.8 ft
12.0 ft	3568 fc 1.2 ft 1.1 ft
16.0 ft	2007 fc 1.5 ft 1.5 ft
20.0 ft	1284 fc 1.9 ft 1.9 ft
24.0 ft	892 fc 2.3 ft 2.3 ft

717 ft (218.5 m) 1 fc maximum distance

Vert. Spread: 5.5° Horiz. Spread: 5.4°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	8,112.9	94.2%	94.2%
0-40	8,386.3	97.4%	97.4%
0-60	8,611.8	100%	100%
60-90	0	0%	0%
0-90	8,611.8	100%	100%
90-180	0	0%	0%
0-180	8,611.8	100%	100%
Efficiency Total:	100%		

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	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0																																													
RCR: 0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00																																													
1	1.16	1.14	1.13	1.11	1.14	1.12	1.11	99	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.01	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99																																												
2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	98	1.06	1.04	1.03	1.03	1.02	1.01	1.00	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99																																												
3	1.11	1.07	1.05	1.02	1.09	1.06	1.04	96	1.04	1.02	1.00	1.02	1.00	99	98	97	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																																												
4	1.09	1.05	1.02	99	1.07	1.04	1.01	95	1.02	1.00	98	1.00	98	97	96	95	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																																												
5	1.07	1.03	99	97	1.06	1.02	99	94	1.00	98	96	99	97	97	96	95	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																																												
6	1.05	1.01	98	95	1.04	1.00	97	93	99	96	95	98	96	95	94	93	97	95	94	97	95	94	97	95	94	97	95	94	93	92	91	90	90																																												
7	1.04	99	96	94	1.03	99	96	92	98	95	93	97	95	93	96	94	93	97	95	93	96	94	93	92	91	90	90	90	90	90	90	90	90																																												
8	1.02	98	95	93	1.01	97	94	92	96	94	92	96	94	92	95	93	94	92	95	93	94	92	95	93	94	92	95	93	92	91	90	90	90																																												
9	1.01	96	94	92	1.00	96	93	91	95	93	91	95	93	91	95	93	91	95	93	91	95	93	91	95	93	91	95	93	91	90	90	90	90																																												
10	1.00	95	93	91	99	95	92	90	94	92	91	94	92	90	93	92	90	93	92	90	93	92	90	93	92	90	93	92	90	90	90	90	90																																												

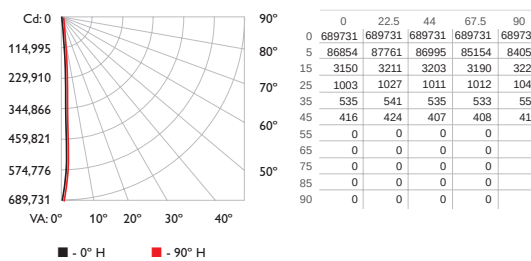
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Reach Powercore 4000 K Without spread lens, full unit

Lumens	11,392
Efficacy	45.6 lm / W



Polar Candela Distribution



Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	43108 fc 0.4 ft 0.4 ft
8.0 ft	10777 fc 0.8 ft 0.7 ft
12.0 ft	4790 fc 1.1 ft 1.1 ft
16.0 ft	2694 fc 1.5 ft 1.5 ft
20.0 ft	1724 fc 1.9 ft 1.8 ft
24.0 ft	1197 fc 2.3 ft 2.2 ft

831 ft (253.3 m) 1 fc maximum distance

Vert. Spread: 5.4° Horiz. Spread: 5.2°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	10,722.3	94.1%	94.5%
0-40	11,055.5	97%	97.4%
0-60	11,345.7	99.6%	100%
60-90	0	0%	0%
0-90	11,345.7	99.6%	100%
90-180	0	0%	0%
0-180	11,345.7	99.6%	100%
Total Efficiency:	99.6%		

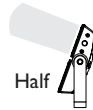
Coefficients Of Utilization - Zonal Cavity Method

		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
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06
	1	1.16	1.14	1.12	1.11	1.13	1.12	1.10	99	1.08	1.07	1.06	1.04	1.04	1.03
	2	1.13	1.10	1.08	1.06	1.11	1.09	1.06	97	1.05	1.04	1.02	1.03	1.01	1.00
	3	1.11	1.07	1.04	1.02	1.09	1.06	1.03	96	1.03	1.01	1.00	1.01	98	97
	4	1.08	1.04	1.02	99	1.07	1.04	1.01	95	1.02	99	98	1.00	98	97
	5	1.07	1.02	99	97	1.05	1.02	99	94	1.00	98	96	99	97	95
	6	1.05	1.01	98	95	1.04	1.00	97	93	99	96	95	98	96	94
	7	1.03	99	96	94	1.03	98	96	92	98	95	93	97	95	93
	8	1.02	98	95	93	1.01	97	95	92	96	94	92	96	94	92
	9	1.01	96	94	92	1.00	96	94	91	95	93	92	95	93	91
	10	1.00	95	93	91	99	95	93	90	95	92	91	94	92	90

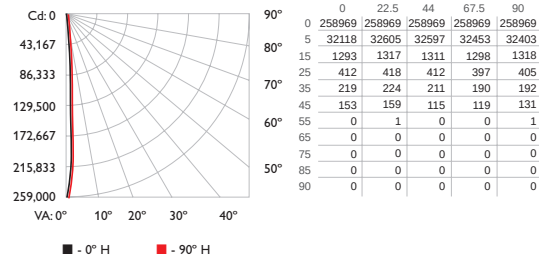
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Reach Powercore
2700 K
Without spread lens, half unit

Lumens	4,255
Efficacy	34.0 lm / W



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4.0 ft	16186 fc	0.4 ft 0.4 ft
8.0 ft	4046 fc	0.8 ft 0.8 ft
12.0 ft	1798 fc	1.1 ft 1.1 ft
16.0 ft	1012 fc	1.5 ft 1.5 ft
20.0 ft	647 fc	1.9 ft 1.9 ft
24.0 ft	450 fc	2.3 ft 2.3 ft

509 ft (155.1 m) 1 fc maximum distance

Vert. Spread: 5.4° Horiz. Spread: 5.4°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	4,030.8	94.7%	94.7%
0-40	4,156.7	97.7%	97.7%
0-60	4,254.6	100%	100%
60-90	0	0%	0%
0-90	4,254.6	100%	100%
90-180	0	0%	0%
0-180	4,254.6	100%	100%
Efficiency Total:	100%		

Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80				70				50				Effective Floor Cavity Reflectance: 20%				10				0			
RW %:	70	50	30	20	70	50	30	20	0	50	30	20	10	0	50	30	20	10	0	50	30	20	10	0
RCR:0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.00
1	1.16	1.14	1.13	1.11	1.14	1.12	1.11	1.09	1.07	0.98	1.06	1.04	1.03	1.01	1.06	1.05	1.04	1.03	1.01	1.01	1.00	0.99	0.99	0.99
2	1.13	1.11	1.08	1.06	1.11	1.09	1.07	1.06	1.04	0.97	1.06	1.04	1.02	1.00	1.02	1.00	1.02	1.00	0.99	0.98	0.97	0.97	0.96	0.96
3	1.11	1.07	1.05	1.03	1.09	1.06	1.04	1.04	1.02	0.94	1.04	1.02	1.00	0.98	1.00	0.98	1.00	0.97	0.97	0.96	0.95	0.95	0.94	0.94
4	1.09	1.05	1.02	1.00	1.07	1.04	1.01	1.01	0.95	1.02	1.00	0.98	1.00	0.98	1.00	0.97	0.97	0.97	0.96	0.95	0.95	0.94	0.94	0.94
5	1.07	1.03	1.00	0.98	1.06	1.02	0.99	0.94	1.00	0.98	0.96	0.99	0.97	0.96	0.98	0.96	0.98	0.96	0.96	0.95	0.95	0.94	0.94	0.94
6	1.05	1.01	0.98	0.96	1.04	1.00	0.97	0.94	0.99	0.97	0.95	0.98	0.96	0.94	0.97	0.95	0.96	0.94	0.97	0.95	0.94	0.93	0.94	0.93
7	1.04	0.99	0.96	0.94	1.03	0.99	0.96	0.93	0.98	0.95	0.94	0.97	0.95	0.93	0.96	0.94	0.97	0.93	0.96	0.94	0.93	0.94	0.93	0.92
8	1.02	0.98	0.95	0.93	1.02	0.97	0.95	0.92	0.97	0.94	0.93	0.96	0.94	0.92	0.95	0.94	0.92	0.95	0.93	0.92	0.91	0.91	0.91	0.91
9	1.01	0.97	0.94	0.92	1.01	0.96	0.94	0.91	0.96	0.93	0.92	0.95	0.92	0.93	0.91	0.94	0.92	0.93	0.91	0.93	0.91	0.91	0.91	0.91
10	1.00	0.96	0.93	0.91	0.99	0.95	0.93	0.90	0.95	0.92	0.91	0.94	0.92	0.91	0.94	0.92	0.91	0.94	0.92	0.91	0.91	0.91	0.91	0.90

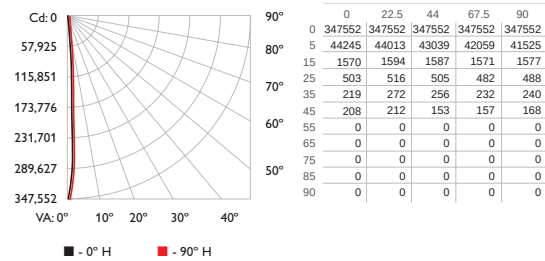
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Reach Powercore
4000 K
Without spread lens, half unit

Lumens	5,668
Efficacy	45.3 lm / W



Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4.0 ft	21722 fc	0.4 ft 0.4 ft
8.0 ft	5431 fc	0.8 ft 0.7 ft
12.0 ft	2414 fc	1.1 ft 1.1 ft
16.0 ft	1358 fc	1.5 ft 1.5 ft
20.0 ft	869 fc	1.9 ft 1.8 ft
24.0 ft	603 fc	2.3 ft 2.2 ft

590 ft (179.8 m) 1 fc maximum distance

Vert. Spread: 5.4° Horiz. Spread: 5.2°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	5,372.3	94.8%	95.1%
0-40	5,523.7	97.5%	97.8%
0-60	5,647.1	99.6%	100%
60-90	0	0%	0%
0-90	5,647.1	99.6%	100%
90-180	0	0%	0%
0-180	5,647.1	99.6%	100%
Total Efficiency:	99.6%		

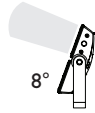
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																				
RCC %:		80				70				50				30				10				0
RW %:		70	50	30	20	70	50	30	20	70	50	30	20	70	50	30	20	70	50	30	20	0
RCR:		0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00
	1	1.16	1.14	1.12	1.11	1.13	1.12	1.11	.99	1.08	1.07	1.06	1.04	1.04	1.04	1.03	1.01	1.01	1.01	1.00	1.00	.98
	2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	.98	1.06	1.04	1.03	1.03	1.02	1.01	1.00	.99	.99	.99	.97	.97	.97
	3	1.11	1.07	1.05	1.02	1.09	1.06	1.04	.96	1.02	1.00	1.00	1.00	1.00	1.00	1.00	.98	.98	.98	.97	.97	.97
	4	1.09	1.05	1.02	1.00	1.07	1.04	1.01	.95	1.02	1.00	.98	1.00	.98	.97	.97	.97	.97	.97	.96	.95	.95
	5	1.07	1.03	1.00	.98	1.06	1.02	.99	.95	1.00	.98	.96	.99	.97	.96	.96	.96	.96	.95	.94	.94	.94
	6	1.05	1.01	.98	.96	1.04	1.00	.98	.94	.99	.97	.95	.98	.96	.96	.94	.97	.95	.94	.93	.93	.93
	7	1.04	.99	.97	.95	1.03	.99	.96	.93	.98	.96	.94	.97	.95	.93	.96	.94	.94	.93	.92	.92	.92
	8	1.02	.98	.95	.93	1.02	.98	.95	.92	.97	.95	.93	.96	.94	.93	.95	.94	.94	.92	.92	.92	.92
	9	1.01	.97	.94	.92	1.01	.97	.94	.91	.96	.94	.92	.95	.93	.92	.95	.93	.92	.92	.91	.91	.91
	10	.96	.96	.93	.92	1.00	.96	.93	.91	.95	.93	.91	.95	.93	.91	.94	.92	.91	.91	.90	.90	.90
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio																						

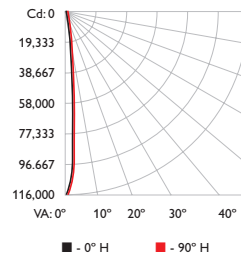
For lux multiply fc by 10.7

eW Reach Powercore 2700 K 8° Spread Lens

Lumens	3,871
Efficacy	30.9 lm / W



Polar Candela Distribution



	0	22.5	44	67.5	90
0	115258	115258	115258	115258	115258
5	35638	36618	38824	41260	42576
15	1616	1605	1643	1700	1708
25	470	460	473	479	471
35	209	207	223	239	234
45	118	110	111	140	135
55	14	14	16	19	17
65	1	1	1	2	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance

	Center Beam fc	Beam Width
4.0 ft	7204 fc	0.5 ft 0.6 ft
8.0 ft	1801 fc	1.1 ft 1.2 ft
12.0 ft	800 fc	1.6 ft 1.8 ft
16.0 ft	450 fc	2.1 ft 2.3 ft
20.0 ft	288 fc	2.7 ft 2.9 ft
24.0 ft	200 fc	3.2 ft 3.5 ft

339 ft (103.2 m) 1 fc maximum distance
Vert. Spread: 7.7° Horiz. Spread: 8.4°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	3,615.9	93.4%	93.4%
0-40	3,757.5	97.1%	97.1%
0-60	3,868.6	100%	100%
60-90	1.9	0%	0%
0-90	3,870.5	100%	100%
90-180	0	0%	0%
0-180	3,870.5	100%	100%
Efficiency Total:	100%		

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	0	50	30	0	50	30	0	
RCR: 0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	
1	1.16	1.14	1.12	1.11	1.14	1.12	1.11	.98	1.08	1.07	1.06	1.04	1.03	1.01	1.00	1.00	.98	
2	1.13	1.10	1.07	1.05	1.11	1.08	1.06	.97	1.05	1.04	1.02	1.02	1.01	1.00	.98	.97	.95	
3	1.10	1.07	1.04	1.01	1.09	1.05	1.03	.95	1.03	1.01	.99	.99	.99	.97	.96	.95	.93	
4	1.08	1.04	1.01	.98	1.07	1.03	1.00	.94	1.01	.98	.97	.97	.95	.97	.95	.97	.94	
5	1.06	1.01	.98	.96	1.05	1.00	.97	.93	.99	.96	.94	.98	.95	.94	.96	.94	.93	
6	1.04	.99	.96	.94	1.03	.98	.95	.91	.97	.95	.93	.96	.94	.92	.95	.93	.92	
7	1.02	.97	.94	.92	1.01	.97	.94	.90	.96	.93	.91	.95	.93	.91	.94	.92	.90	
8	1.01	.96	.93	.90	1.00	.95	.92	.89	.94	.92	.90	.94	.91	.90	.93	.91	.89	
9	.99	.94	.91	.89	.98	.94	.91	.88	.93	.91	.89	.93	.90	.89	.92	.90	.88	
10	.98	.93	.90	.88	.97	.93	.90	.87	.92	.90	.88	.92	.89	.89	.91	.89	.87	

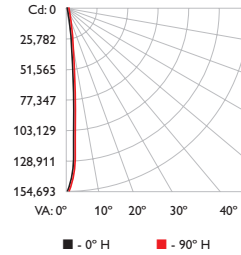
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Reach Powercore 4000 K 8° Spread Lens

Lumens	5,109
Efficacy	40.8 lm / W



Polar Candela Distribution



	0	22.5	44	67.5	90
0	154693	154693	154693	154693	154693
5	47509	48959	51981	55584	57404
15	2037	2024	2074	2142	2162
25	580	566	581	587	578
35	258	254	271	287	284
45	144	138	140	177	172
55	17	16	15	21	20
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance

	Center Beam fc	Beam Width
4.0 ft	9668 fc	0.5 ft 0.6 ft
8.0 ft	2417 fc	1.1 ft 1.2 ft
12.0 ft	1074 fc	1.6 ft 1.8 ft
16.0 ft	604 fc	2.1 ft 2.3 ft
20.0 ft	387 fc	2.7 ft 2.9 ft
24.0 ft	269 fc	3.2 ft 3.5 ft

393 ft (119.8 m) 1 fc maximum distance
Vert. Spread: 7.6° Horiz. Spread: 8.4°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	4,790.9	93.8%	93.9%
0-40	4,963.3	97.1%	97.3%
0-60	5,099.6	99.8%	100%
60-90	0.5	0%	0%
0-90	5,100.1	99.8%	100%
90-180	0	0%	0%
0-180	5,100.1	99.8%	100%
Total Efficiency:	99.8%		

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	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.00
1	1.16	1.14	1.12	1.11	1.13	1.12	1.10	.98	1.08	1.07	1.06	1.04	1.03	1.03	1.01	1.00	.98
2	1.13	1.10	1.07	1.05	1.11	1.08	1.06	.97	1.05	1.04	1.02	1.02	1.01	1.00	1.00	.98	.97
3	1.10	1.07	1.04	1.01	1.09	1.05	1.03	.96	1.03	1.01	.99	1.01	.99	.98	.99	.96	.95
4	1.08	1.04	1.01	.98	1.07	1.03	1.00	.94	1.01	.99	.97	.99	.97	.96	.98	.95	.94
5	1.06	1.01	.98	.96	1.05	1.01	.98	.93	.99	.97	.95	.98	.96	.94	.96	.95	.93
6	1.04	.99	.96	.94	1.03	.99	.96	.92	.98	.95	.93	.96	.94	.93	.95	.93	.92
7	1.02	.98	.95	.92	1.01	.97	.94	.91	.96	.94	.92	.95	.93	.91	.94	.92	.91
8	1.01	.96	.93	.91	1.00	.96	.93	.90	.95	.92	.90	.94	.92	.90	.93	.91	.90
9	.99	.95	.92	.90	.99	.94	.92	.89	.94	.91	.89	.93	.91	.89	.92	.90	.89
10	.98	.93	.91	.89	.98	.93	.90	.88	.93	.90	.88	.92	.90	.88	.92	.90	.88

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

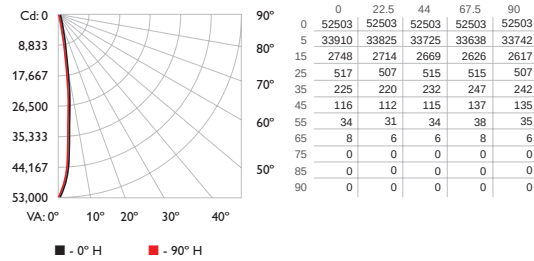
For lux multiply fc by 10.7

eW Reach Powercore 2700 K 13° Spread Lens

Lumens	3,852
Efficacy	30.8 lm / W



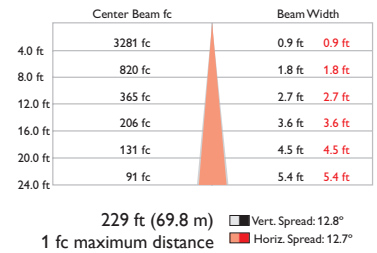
Polar Candela Distribution



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	3,569.6	92.7%	92.7%
0-40	3,718.2	96.5%	96.5%
0-60	3,845.0	99.8%	99.8%
60-90	7.2	0.2%	0.2%
0-90	3,852.2	100%	100%
90-180	0	0%	0%
0-180	3,852.2	100%	100%
Efficiency Total: 100%			

Illuminance at Distance



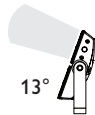
Coefficients Of Utilization - Zonal Cavity Method

RCC %:		80		70		50		30		10		0	
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR:		0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.06
RCR:		1	1.16	1.14	1.12	1.10	1.13	1.12	1.10	.98	1.08	1.06	1.05
RCR:		2	1.12	1.09	1.07	1.04	1.10	1.08	1.05	.96	1.04	1.03	1.01
RCR:		3	1.09	1.05	1.02	1.00	1.08	1.04	1.01	.94	1.02	.99	.97
RCR:		4	1.07	1.02	.99	.96	1.05	1.01	.98	.92	.99	.97	.95
RCR:		5	1.04	.99	.96	.93	1.03	.99	.95	.90	.97	.94	.92
RCR:		6	1.02	.97	.93	.91	1.01	.96	.93	.89	.95	.92	.90
RCR:		7	1.00	.95	.91	.89	.99	.94	.91	.87	.93	.90	.88
RCR:		8	.98	.93	.90	.87	.97	.92	.89	.86	.92	.89	.87
RCR:		9	.97	.91	.88	.86	.96	.91	.88	.85	.90	.87	.85
RCR:		10	.95	.90	.86	.84	.94	.89	.86	.84	.88	.86	.84

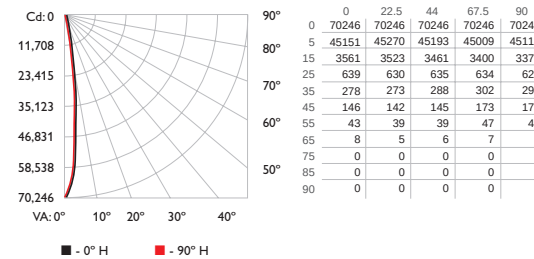
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Reach Powercore 4000 K 13° Spread Lens

Lumens	5,068
Efficacy	40.6 lm / W



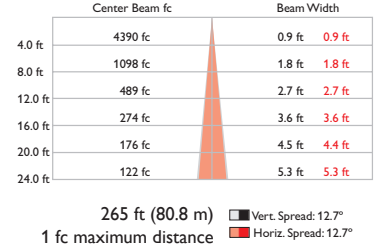
Polar Candela Distribution



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	4,713.3	93%	93.1%
0-40	4,897.4	96.6%	96.7%
0-60	5,056.9	99.8%	99.9%
60-90	6.9	0.1%	0.1%
0-90	5,063.8	99.9%	100%
90-180	0	0%	0%
0-180	5,063.8	99.9%	100%
Total Efficiency: 99.9%			

Illuminance at Distance



Coefficients Of Utilization - Zonal Cavity Method

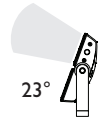
RCC %:		80		70		50		30		10		0	
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR:		0	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.06	1.06
RCR:		1	1.16	1.14	1.12	1.10	1.13	1.12	1.10	.98	1.08	1.06	1.05
RCR:		2	1.12	1.09	1.07	1.04	1.10	1.08	1.05	.96	1.05	1.03	1.01
RCR:		3	1.10	1.06	1.02	1.00	1.08	1.04	1.01	.94	1.02	1.00	.98
RCR:		4	1.07	1.02	.99	.96	1.05	1.01	.98	.92	.99	.97	.95
RCR:		5	1.05	1.00	.96	.94	1.03	.99	.96	.91	.97	.95	.93
RCR:		6	1.02	.97	.94	.91	1.01	.97	.93	.89	.95	.93	.90
RCR:		7	1.00	.95	.92	.89	.99	.95	.91	.88	.94	.91	.89
RCR:		8	.99	.93	.90	.88	.98	.93	.90	.86	.92	.89	.87
RCR:		9	.97	.92	.88	.86	.96	.91	.88	.85	.91	.88	.86
RCR:		10	.95	.90	.87	.85	.95	.90	.87	.84	.89	.86	.85

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

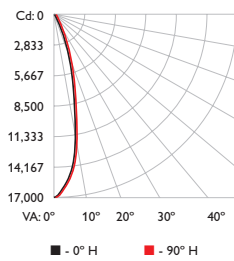
For lux multiply fc by 10.7

eW Reach Powercore 2700 K 23° Spread Lens

Lumens	3,767
Efficacy	30.2 lm / W



Polar Candela Distribution



	0	22.5	44	67.5	90
90°	0	16840	16840	16840	16840
80°	5	14855	14865	14855	14843
70°	15	5673	5674	5659	5661
60°	25	1142	1135	1121	1121
50°	35	280	280	286	293
	45	124	124	129	140
	55	58	58	60	69
	65	21	20	21	26
	75	0	0	1	2
	85	0	0	0	0
	90	0	0	0	0

Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	1053 fc
8.0 ft	263 fc
12.0 ft	117 fc
16.0 ft	66 fc
20.0 ft	42 fc
24.0 ft	29 fc

130 ft (39.6 m) 1 fc maximum distance
Vert. Spread: 23.7° Horiz. Spread: 23.8°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	3,391.6	90%	90%
0-40	3,580.8	95.1%	95.1%
0-60	3,740.8	99.3%	99.3%
60-90	25.9	0.7%	0.7%
0-90	3,766.7	100%	100%
90-180	0	0%	0%
0-180	3,766.7	100%	100%
Efficiency Total:	100%		

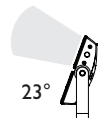
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80	70	50	30	20	10	0
RW %:	70	50	30	0	70	50	30
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16
	1	1.15	1.13	1.10	1.09	1.12	1.10
	2	1.11	1.07	1.04	1.01	1.09	1.05
	3	1.07	1.02	0.98	0.95	1.05	1.00
	4	1.03	0.97	0.93	0.90	1.02	0.96
	5	1.00	0.93	0.89	0.86	0.98	0.93
	6	0.97	0.90	0.85	0.82	0.95	0.89
	7	0.94	0.87	0.82	0.79	0.93	0.86
	8	0.91	0.84	0.80	0.76	0.90	0.83
	9	0.88	0.81	0.77	0.74	0.87	0.81
	10	0.86	0.79	0.75	0.72	0.85	0.78

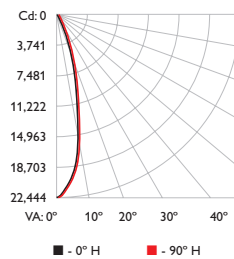
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Reach Powercore 4000 K 23° Spread Lens

Lumens	4,968
Efficacy	39.7 lm / W



Polar Candela Distribution



	0	22.5	44	67.5	90
90°	0	22418	22418	22418	22418
80°	5	19755	19795	19787	19753
70°	15	7530	7508	7511	7510
60°	25	1485	1471	1454	1452
50°	35	356	354	360	368
	45	158	158	165	178
	55	75	75	78	90
	65	27	27	28	34
	75	0	0	2	3
	85	0	0	0	0
	90	0	0	0	0

Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	1401 fc
8.0 ft	350 fc
12.0 ft	156 fc
16.0 ft	88 fc
20.0 ft	56 fc
24.0 ft	39 fc

150 ft (45.7 m) 1 fc maximum distance
Vert. Spread: 23.7° Horiz. Spread: 23.8°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	4,487.7	90.3%	90.4%
0-40	4,727.0	95.2%	95.2%
0-60	4,931.8	99.3%	99.3%
60-90	34.4	0.7%	0.7%
0-90	4,966.1	100%	100%
90-180	0	0%	0%
0-180	4,966.1	100%	100%
Total Efficiency:	100%		

Coefficients Of Utilization - Zonal Cavity Method

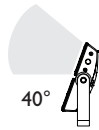
RCC %:	80	70	50	30	20	10	0
RW %:	70	50	30	0	70	50	30
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16
	1	1.15	1.12	1.10	1.09	1.12	1.10
	2	1.11	1.07	1.04	1.01	1.09	1.05
	3	1.07	1.02	0.98	0.95	1.05	1.00
	4	1.03	0.97	0.93	0.90	0.98	0.93
	5	1.00	0.94	0.89	0.86	0.95	0.89
	6	0.97	0.90	0.85	0.82	0.93	0.86
	7	0.94	0.87	0.83	0.79	0.90	0.83
	8	0.91	0.84	0.80	0.76	0.88	0.81
	9	0.88	0.81	0.77	0.74	0.85	0.78
	10	0.86	0.79	0.75	0.72	0.83	0.76

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

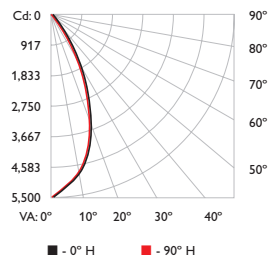
For lux multiply fc by 10.7

eW Reach Powercore 2700 K 40° Spread Lens

Lumens	3,709
Efficacy	29.7 lm / W



Polar Candela Distribution



Zonal Lumen

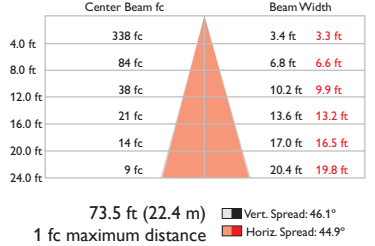
Zone	Lumens	% Lamp	% Luminaire
0-30	2,635.5	71.1%	71.1%
0-40	3,265.1	88%	88%
0-60	3,633.8	98%	98%
60-90	74.9	2%	2%
0-90	3,708.7	100%	100%
90-180	0	0%	0%
0-180	3,708.7	100%	100%
Efficiency Total: 100%			

Coefficients Of Utilization - Zonal Cavity Method

RCC %:		Effective Floor Cavity Reflectance: 20%									
		80	70	50	30	20	10	0	0	0	0
RW %:	70	50	30	0	70	50	30	0	50	30	20
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.00	1.11	1.11	1.06
	1	1.13	1.11	1.08	1.06	1.11	1.08	1.06	1.03	1.01	1.01
	2	1.08	1.03	.99	.95	1.05	1.01	.97	.87	.98	.95
	3	1.02	.96	.91	.86	1.00	.94	.90	.81	.92	.88
	4	.97	.89	.84	.79	.95	.88	.83	.76	.86	.82
	5	.92	.84	.78	.73	.90	.83	.77	.71	.81	.76
	6	.88	.79	.73	.68	.86	.78	.72	.66	.76	.71
	7	.83	.74	.68	.64	.82	.73	.68	.63	.72	.67
	8	.79	.70	.64	.60	.78	.69	.64	.59	.68	.63
	9	.76	.66	.60	.56	.75	.66	.60	.56	.64	.59
	10	.72	.63	.57	.53	.71	.62	.57	.53	.61	.56

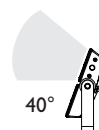
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

Illuminance at Distance

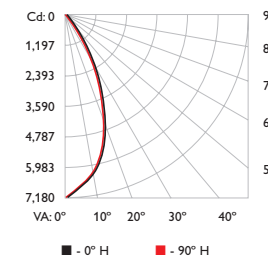


eW Reach Powercore 4000 K 40° Spread Lens

Lumens	4,893
Efficacy	39.1 lm / W



Polar Candela Distribution



Zonal Lumen

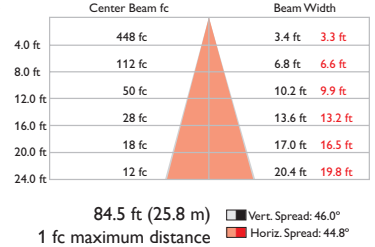
Zone	Lumens	% Lamp	% Luminaire
0-30	3,490.5	71.3%	71.4%
0-40	4,318.1	88.3%	88.3%
0-60	4,795.0	98%	98%
60-90	97.0	2%	2%
0-90	4,892.0	100%	100%
90-180	0	0%	0%
0-180	4,892.0	100%	100%
Total Efficiency: 100%			

Coefficients Of Utilization - Zonal Cavity Method

RCC %:		Effective Floor Cavity Reflectance: 20%									
		80	70	50	30	20	10	0	0	0	0
RW %:	70	50	30	0	70	50	30	0	50	30	20
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.06
	1	1.13	1.11	1.08	1.06	1.11	1.08	1.06	1.03	1.01	1.01
	2	1.08	1.03	.99	.95	1.05	1.01	.97	.87	.98	.95
	3	1.02	.96	.91	.86	1.00	.94	.90	.81	.92	.88
	4	.97	.89	.84	.79	.95	.88	.83	.76	.86	.82
	5	.92	.84	.78	.74	.91	.83	.77	.71	.81	.76
	6	.88	.79	.73	.68	.86	.78	.72	.67	.76	.71
	7	.83	.74	.68	.64	.82	.74	.68	.63	.72	.67
	8	.80	.70	.64	.60	.78	.70	.64	.59	.68	.63
	9	.76	.66	.61	.57	.75	.66	.60	.56	.64	.59
	10	.73	.63	.57	.53	.72	.63	.57	.53	.61	.56

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

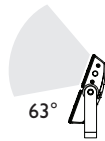
Illuminance at Distance



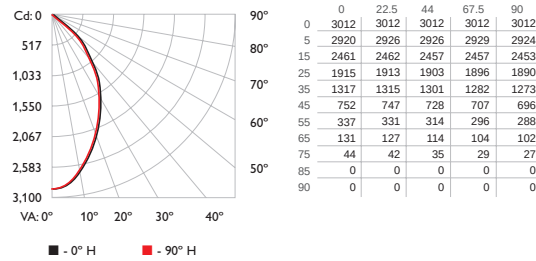
For lux multiply fc by 10.7

eW Reach Powercore 2700 K 63° Spread Lens

Lumens	3,649
Efficacy	29.2 lm / W



Polar Candela Distribution



Zonal Lumen

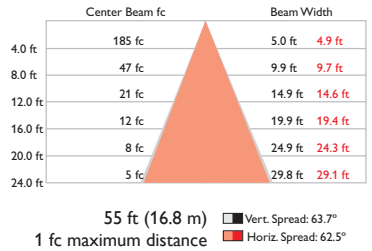
Zone	Lumens	% Lamp	% Luminaire
0-30	1,831.8	50.2%	50.2%
0-40	2,640.5	72.4%	72.4%
0-60	3,489.8	95.6%	95.6%
60-90	159.2	4.4%	4.4%
0-90	3,649.0	100%	100%
90-180	0	0%	0%
0-180	3,649.0	100%	100%
Efficiency Total: 100%			

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cover Reflectance: 20%																	
RCC %:		80			70			50			30			20			0		
RW %:		70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	
RCR:		0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.11	1.11	1.06	1.06	1.02	1.02	1.02	1.00	
		1	1.12	1.09	1.06	1.03	1.10	1.07	1.04	.91	1.03	1.00	.98	.99	.95	.95	.94	.93	.91
		2	1.05	.99	.94	.90	1.03	.97	.93	.82	.94	.90	.87	.91	.88	.85	.88	.86	.83
		3	.98	.90	.84	.79	.96	.89	.83	.74	.86	.81	.78	.84	.80	.76	.81	.78	.75
		4	.92	.83	.76	.71	.90	.82	.75	.67	.79	.74	.70	.77	.72	.69	.74	.70	.67
		5	.86	.76	.69	.64	.84	.75	.68	.61	.73	.67	.63	.71	.66	.62	.70	.65	.62
		6	.81	.70	.63	.58	.79	.69	.63	.56	.68	.62	.57	.66	.61	.57	.65	.60	.56
		7	.76	.65	.58	.53	.74	.64	.57	.52	.63	.57	.52	.61	.56	.52	.60	.55	.52
		8	.71	.60	.53	.48	.70	.60	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48
		9	.67	.56	.49	.45	.66	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44
		10	.64	.53	.46	.41	.63	.52	.46	.41	.51	.45	.41	.50	.45	.41	.50	.45	.41

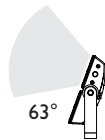
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

Illuminance at Distance

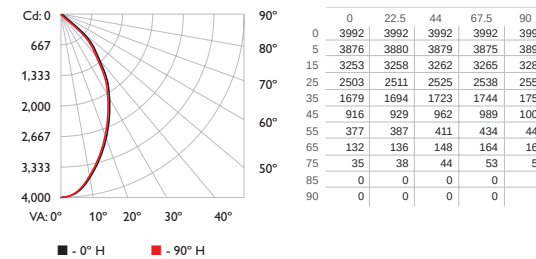


eW Reach Powercore 4000 K 63° Spread Lens

Lumens	4,827
Efficacy	38.6 lm / W



Polar Candela Distribution



Zonal Lumen

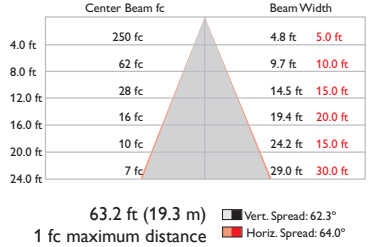
Zone	Lumens	% Lamp	% Luminaire
0-30	2,430.7	50.4%	50.4%
0-40	3,502.2	72.6%	72.6%
0-60	4,621.1	95.7%	95.7%
60-90	205.3	4.3%	4.3%
0-90	4,826.4	100%	100%
90-180	0	0%	0%
0-180	4,826.4	100%	100%
Total Efficiency: 100%			

Coefficients Of Utilization - Zonal Cavity Method

RCC %:		80		70		50		30		10		0	
RW %:		70	50	30	0	70	50	30	0	50	30	20	50
RCR:		0	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06
RCR:		1	1.12	1.09	1.06	1.03	1.10	1.07	1.04	.91	1.03	1.00	.98
RCR:		2	1.05	.99	.94	.90	1.03	.97	.93	.82	.94	.90	.87
RCR:		3	.98	.90	.84	.80	.96	.89	.83	.75	.86	.82	.78
RCR:		4	.92	.83	.76	.71	.90	.82	.75	.68	.79	.74	.70
RCR:		5	.86	.76	.69	.64	.84	.75	.68	.62	.73	.67	.63
RCR:		6	.81	.70	.63	.58	.79	.69	.63	.56	.68	.62	.57
RCR:		7	.76	.65	.58	.53	.74	.64	.58	.52	.63	.57	.52
RCR:		8	.72	.60	.53	.49	.70	.60	.53	.48	.59	.53	.48
RCR:		9	.68	.56	.49	.45	.66	.56	.49	.44	.55	.49	.44
RCR:		10	.64	.53	.46	.42	.63	.52	.46	.41	.51	.45	.41

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

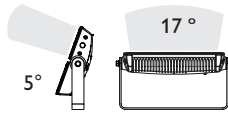
Illuminance at Distance



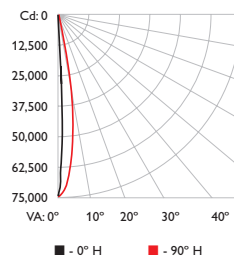
For lux multiply fc by 10.7

eW Reach Powercore 2700 K 5° x 17° Asymmetric Spread Lens

Lumens	3,904
Efficacy	31.2 lm / W



Polar Candela Distribution



	0	22.5	44	67.5	90
0	74850	74850	74850	74850	74850
5	14727	16029	22151	43353	60576
15	1070	1166	1666	3901	11819
25	382	399	467	615	1175
35	217	187	214	256	317
45	104	108	110	141	167
55	8	14	32	60	79
65	2	2	4	16	29
75	0	0	0	4	8
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance

	Center Beam fc	Beam Width
4.0 ft	4678 fc	0.4 ft 1.3 ft
8.0 ft	1170 fc	0.8 ft 2.5 ft
12.0 ft	520 fc	1.2 ft 3.8 ft
16.0 ft	292 fc	1.6 ft 5.1 ft
20.0 ft	187 fc	2.0 ft 6.3 ft
24.0 ft	130 fc	2.4 ft 7.6 ft

273 ft (83.2 m) Vert. Spread: 5.6°
1 fc maximum distance Horiz. Spread: 18.0°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	3,615.5	92.6%	92.6%
0-40	3,762.3	96.4%	96.4%
0-60	3,891.9	99.7%	99.7%
60-90	11.6	0.3%	0.3%
0-90	3,903.5	100%	100%
90-180	0	0%	0%
0-180	3,903.5	100%	100%
Efficiency Total: 100%			

Coefficients Of Utilization - Zonal Cavity Method

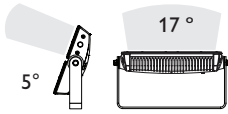
		Effective Floor Cavity Reflectance: 20%																					
RCC %:		80				70				50				30				10				0	
RW %:		70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0	
RCR: 0		1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	
1		1.15	1.14	1.12	1.10	1.13	1.11	1.10	.98	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	.99	.98	.97	.95	.95	
2		1.12	1.09	1.06	1.04	1.10	1.07	1.05	.96	1.04	1.02	1.01	1.01	1.00	.99	.98	.97	.96	.95	.94	.93	.92	
3		1.09	1.05	1.02	.99	1.07	1.04	1.01	.93	1.01	.99	.97	.99	.97	.96	.97	.96	.97	.95	.94	.93	.92	
4		1.06	1.02	.98	.96	1.05	1.01	.97	.91	.99	.96	.94	.97	.95	.93	.95	.93	.95	.93	.92	.91	.90	
5		1.04	.99	.95	.93	1.03	.98	.95	.90	.96	.94	.91	.95	.93	.91	.94	.92	.90	.89	.88	.87	.86	
6		1.02	.96	.93	.90	1.01	.96	.92	.88	.94	.91	.89	.93	.91	.89	.92	.90	.88	.87	.86	.85	.84	
7		1.00	.94	.90	.88	.99	.93	.90	.86	.92	.89	.87	.91	.89	.87	.91	.88	.87	.86	.85	.84	.83	
8		.98	.92	.89	.86	.97	.92	.88	.85	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84	.83	.82	.81	
9		.96	.90	.87	.84	.95	.90	.87	.84	.89	.86	.84	.88	.86	.84	.88	.85	.84	.83	.82	.81	.80	
10		.94	.89	.85	.83	.93	.88	.85	.82	.88	.85	.83	.87	.84	.83	.86	.84	.82	.82	.81	.80	.79	

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

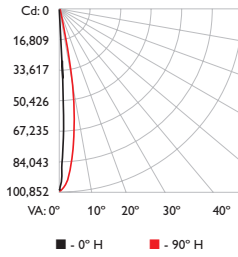
For lux multiply fc by 10.7

5° x 17° Asymmetric Spread Lens

Lumens	5,161
Efficacy	41.3 lm / W

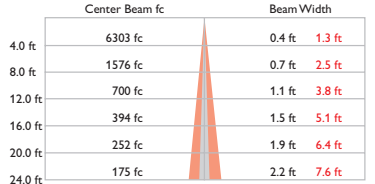


Polar Candela Distribution



90°	0	22.5	44	67.5	90
	0	100842	100842	100842	100842
80°	5	19495	21305	29055	58999
	15	1299	1421	2155	5076
					16168
70°	25	464	483	567	754
	35	263	223	260	308
	45	131	132	138	169
60°	55	3	10	39	69
	65	0	0	4	13
	75	0	0	0	0
	85	0	0	0	0
50°	90	0	0	0	0

Illuminance at Distance



317 ft (96.6 m)
1 fc maximum distance

Vert. Spread: 5.4°
Horiz. Spread: 18.1°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	4,808.1	93.2%	93.3%
0-40	4,987.0	96.6%	96.7%
0-60	5,144.3	99.7%	99.8%
60-90	10.4	0.2%	0.2%
0-90	5,154.7	99.9%	100%
90-180	0	0%	0%
0-180	5,154.7	99.9%	100%
Total Efficiency: 99.9%			

Coefficients Of Utilization - Zonal Cavity Method

RCC %:		Effective Floor Cavity Reflectance: 20%																														
RW %:	RCC:	80					70					50					30					10					0					
		0	10	20	30	40	0	10	20	30	40	0	10	20	30	40	0	10	20	30	40	0	10	20	30	40	0	10	20	30	40	
		0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.00	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		1	1.15	1.14	1.12	1.10	1.13	1.11	1.09	1.07	0.98	1.07	1.06	1.05	1.04	1.03	1.04	1.03	1.02	1.01	1.00	1.00	1.00	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.93	0.93
		2	1.09	1.08	1.06	1.04	1.10	1.07	1.05	1.03	0.94	1.01	0.99	0.97	0.95	0.94	0.96	0.94	0.92	0.90	0.88	0.88	0.87	0.86	0.84	0.82	0.81	0.79	0.77	0.75	0.73	0.73
		3	1.09	1.05	1.02	0.99	1.08	1.04	1.01	0.97	0.94	0.98	0.94	0.91	0.88	0.85	0.93	0.89	0.86	0.83	0.80	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.63
		4	1.07	1.02	0.98	0.95	1.01	0.93	0.88	0.85	0.90	0.97	0.96	0.94	0.92	0.93	0.95	0.93	0.91	0.89	0.87	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.70	0.70
		5	1.04	0.99	0.96	0.93	1.03	0.98	0.95	0.90	0.97	0.94	0.92	0.95	0.93	0.91	0.94	0.92	0.90	0.88	0.86	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.69
		6	1.02	0.97	0.93	0.91	1.01	0.96	0.93	0.88	0.95	0.92	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.85	0.83	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.66	0.66
		7	1.00	0.94	0.91	0.88	0.99	0.94	0.91	0.87	0.93	0.90	0.88	0.92	0.89	0.87	0.91	0.89	0.87	0.85	0.83	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.65
		8	0.98	0.92	0.89	0.87	0.97	0.92	0.89	0.85	0.91	0.88	0.86	0.90	0.88	0.86	0.90	0.88	0.86	0.84	0.82	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.65	0.65
		9	0.96	0.91	0.87	0.85	0.95	0.90	0.87	0.84	0.90	0.87	0.85	0.89	0.86	0.84	0.88	0.86	0.84	0.82	0.80	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.63
		10	0.95	0.89	0.86	0.84	0.94	0.89	0.86	0.83	0.88	0.85	0.83	0.88	0.85	0.83	0.87	0.85	0.83	0.81	0.79	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.62

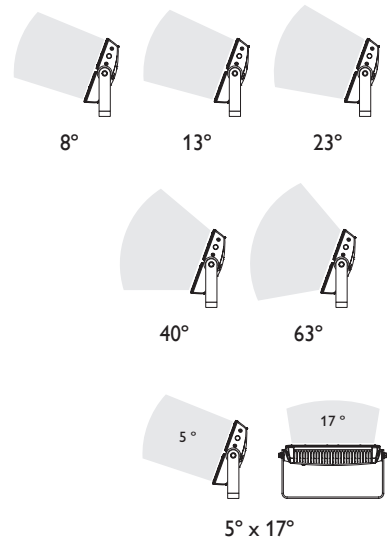
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCCR: Room cavity ratio

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	Beam Angle	8° / 13° / 23° / 40° / 63° spread lenses, 5° x 17° asymmetric spread lens	
	Lumens†	8,612 (no spread lens, full unit)	11,392 (no spread lens, full unit)
	Efficacy (lm / W)	34.4 (no spread lens, full unit)	45.6 (no spread lens, full unit)
	CRI	83.1 (no spread lens, full unit)	80 (no spread lens, full unit)
	Mixing Distance	50 ft (15.2 m) to uniform light	
	Lumen Maintenance‡	70,000 hours L70 @ 25° C 37,000 hours L70 @ 50° C 90,000 hours L50 @ 25° C 68,000 hours L50 @ 50° C	
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz	
	Power Consumption	250 W maximum at full output, steady state	
	Power Factor	.994 @ 120 VAC (no spread lens, full unit)	
Control		On / Off	
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 m²	
	Housing	Die-cast aluminium, powder-coated finish	
	Lens	Tempered glass	
	Fixture Connections	6 ft (1.8 m) unified 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	UL / cUL, FCC Class A, CE	
	Environment	Dry / Damp / Wet Location, IP66	



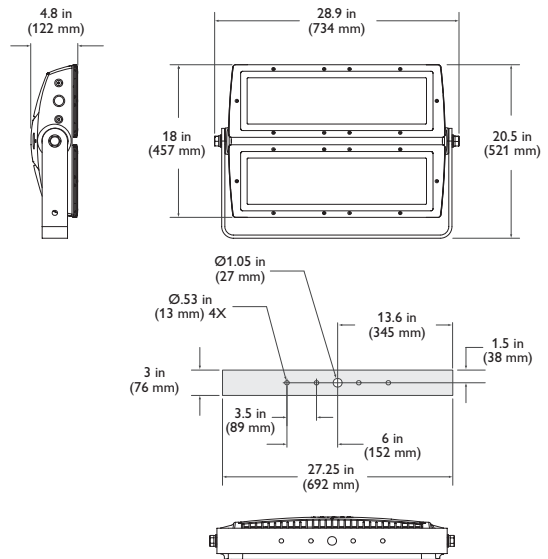
* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products



† Lumen measurement complies with IES LM-79-08 testing procedures

‡ L70 = 70% maintenance of lumen output (when light output drops below 70% of initial output).
L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output). Ambient temperatures specified. Based on measurements that comply with IES LM-80-08 testing procedures.
Refer to www.colorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

OPTIBIN[®] | POWERCORE[®]
CK TECHNOLOGY | CK TECHNOLOGY



Fixture and Accessories

eW Reach Powercore fixtures are part of a complete line-voltage system which includes fixtures and:

- One 6 ft (1.8 m) Leader Cable to connect each eW Reach Powercore fixture to a power source.
- 3-conductor copper wire to connect eW Reach Powercore fixtures in series or in parallel. Standard 12 AWG (2.05 mm) stranded wire is recommended.
- For CE installations, one or more Data Enabler Pro devices.

Build-to-Order Configurations

In addition to the standard configurations listed here, build-to-order configurations are also available with non-standard color temperatures or solid colors. Refer to the eW Reach Powercore Ordering Information sheet at www.colorkinetics.com/ls/essentialwhite/ewreach/ for complete information.

Component	Available Non-Standard Options
Color Temperature	3000 K, 3500 K, 5000 K, 5500 K, 6000 K, 6500 K
Color	Royal Blue, Blue, Green, Amber, Red

Item	Type	Item Number	Philips 12NC
eW Reach Powercore Includes 6 ft (1.8 m) Leader Cable	2700 K	523-000044-00	910503700623
	4000 K	523-000044-01	910503700624

Replacement Leader Cable 6 ft (1.8 m)	UL / cUL	108-000046-00	910503700621
	CE	108-000046-01	910503700622

Required for CE installations only.

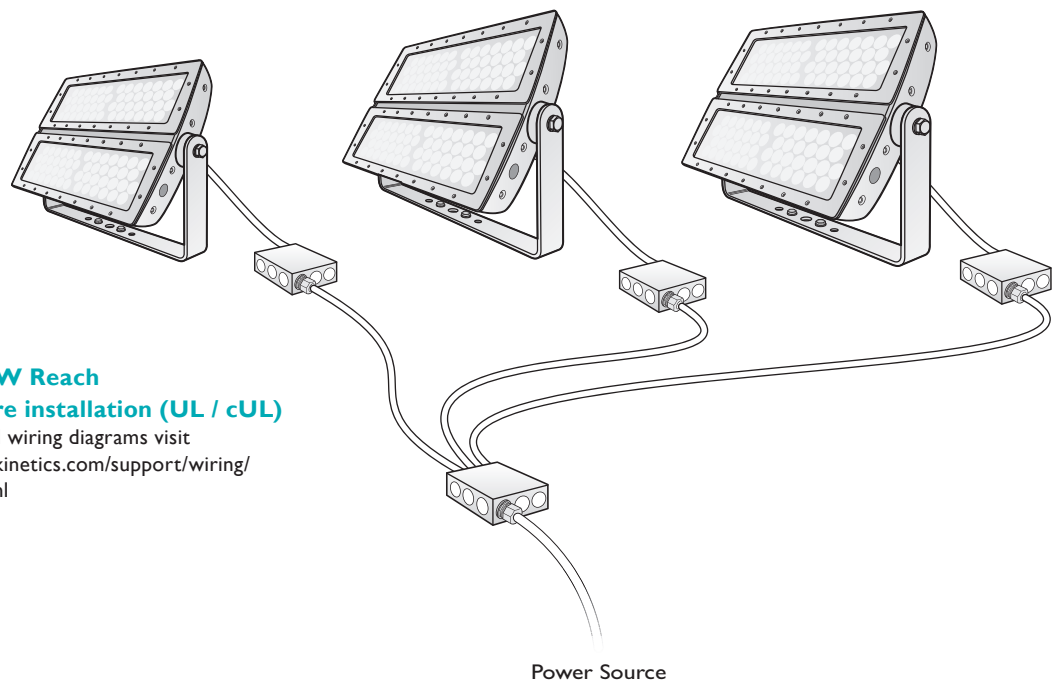
Data Enabler Pro	3/4 in / 1/2 in NPT (US trade size conduit)	106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211

eW Reach Powercore 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.

Typical eW Reach Powercore installation (UL / cUL)

For detailed wiring diagrams visit www.colorkinetics.com/support/wiring/ls_prod.html



Installation

eW Reach Powercore, a high-performance exterior architectural white floodlight with light projection of over 800 ft (243.8 m) at 4000 K, is designed to brilliantly illuminate prominent, signature façades. Because each eW Reach Powercore fixture weighs 75 lb (34 kg), you may need two people to lift the fixture out of the box and position it in the mounting location. Optional accessory optics require the installation of both a spread lens and a bezel on each half of the fixture.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Reach Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Installing in Wet or Damp Locations

When installing in wet or damp locations, you must seal all junction boxes with electronics-grade RTV silicone sealant so that water or moisture cannot enter or accumulate in wiring compartments, cables, fixtures, or other electrical parts. You must use suitable outdoor-rated junction boxes when installing in wet or damp locations. Additionally, you must use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes.

Prepare for the Installation

1. Determine the appropriate location of the eW Reach Powercore fixtures in relation to each other.

eW Reach Powercore fixtures can be installed in series or in parallel (wired to a common junction box). The maximum number of fixtures each circuit can support depends on specific configuration details such circuit size, line voltage, and method of connection (in series or in parallel). As an example, the table to the right lists the maximum number of fixtures each circuit can support at various voltages, assuming a 20A circuit, standard 6 ft (1.8 m) Leader Cables, and 5 ft (1.5 m) jumper cables between fixtures. Keep in mind that these figures, provided as a guideline, are accurate for the specified configuration only. Changing the configuration can affect the fixture run lengths.

2. If installing in Europe (CE installations), you must install a Data Enabler Pro on each circuit. Determine the appropriate location of the Data Enabler Pro devices in relation to the light fixtures, and in relation to each other.
3. Ensure that all additional parts and tools are available, including:
 - A 28 mm hex or adjustable wrench for adjusting the locking bolts on the fixture bracket
 - One electrical junction box per fixture, rated for your application. (Refer to the junction box manufacturer’s literature for additional items required for mounting or sealing.)
 - A sufficient length of 3-conductor copper wire. We recommend 12 AWG (2.05 mm) stranded wire.
 - Conduit as required
 - Electronics-grade room temperature vulcanizing (RTV) silicone sealant

Fixture run lengths

6 @ 100 VAC
7 @ 120 VAC
13 @ 220 VAC
14 @ 240 VAC

assuming fixtures installed on a 20 A circuit, using standard 6 ft (1.8 m) Leader Cables and 5 ft (1.5 m) jumper cables

 For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.

Position and Mount Fixtures

Ensure that the fixture mounting locations and substrates are sufficiently sturdy to bear the weight of each eW Reach Powercore fixture. Pre-drill holes in the mounting substrate if necessary, making reference to the mounting bracket dimensions. Use at least two screws to secure each fixture, one on either side of the mounting bracket's central screw hole.

If mounting eW Reach Powercore on a lighting pole, make sure the pole can both support the total weight of the fixtures and withstand the maximum velocity winds to which it will be subjected. Each fixture weighs 75 lb (34 kg), and has an effective projected area (EPA) of 0.42 m².

Included in the box

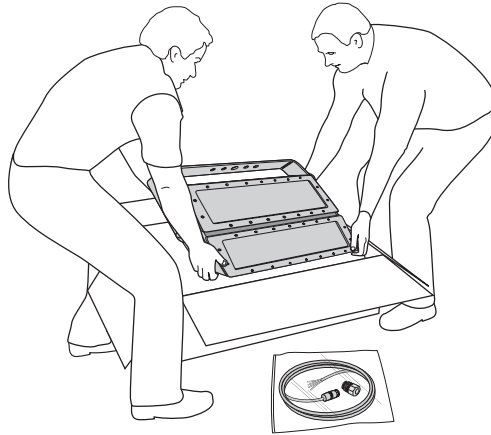
eW Reach Powercore fixture

6 ft (1.8 m) Leader Cable

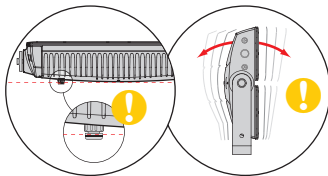
Cable Strain Relief

Installation Instructions

1. Unpack eW Reach Powercore fixtures. You may need two people to lift the fixture out of the box and position it in the mounting location.

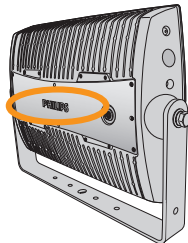


2. Position each eW Reach Powercore fixture in its designated mounting location. Make sure the mounting area is clear of debris and other obstructions.



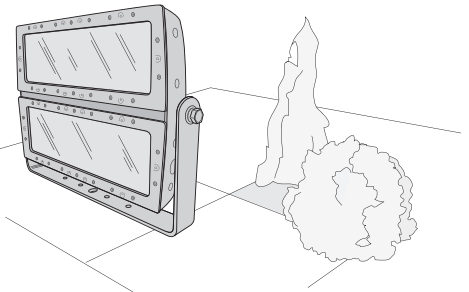
Do not rest eW Reach Powercore its back, as doing so may damage the connector port. Be careful not to tip the fixture over during positioning.

Philips logo
is upright

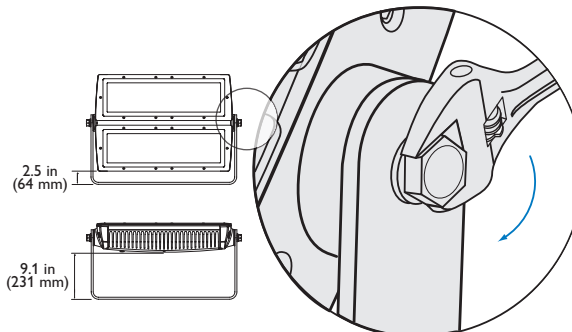


Top

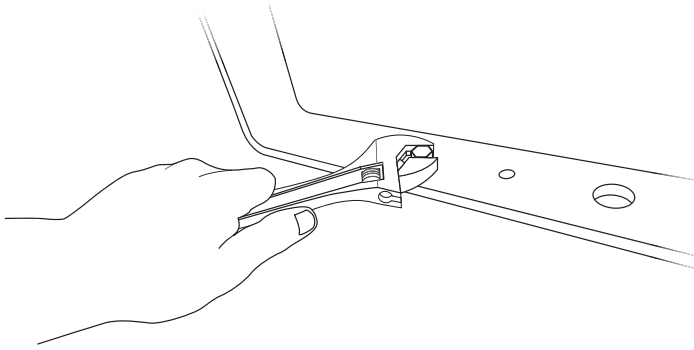
Bottom



3. Loosen the locking bolts, using a 28 mm hex or adjustable wrench, and rotate the fixture to access the mounting bracket. Tilting the fixture 90° affords 9.1 in (231 mm) clearance.



- If mounting holes have been pre-drilled, align the mounting bracket's screw holes with the pre-drilled holes. Mount the fixture bracket using hardware appropriate for the mounting substrate. Use at least two screws to secure each fixture, one on either side of the mounting bracket's central screw hole.



Connect Fixtures

eW Reach Powercore fixtures can be installed in series or in parallel (wired to a common junction box). Ensure that all junction boxes are suitable for the environment and that all wiring between junction boxes complies with local codes.

Make sure the power is OFF before connecting eW Reach Powercore fixtures.

- Install junction boxes. (Refer to the manufacturer's literature for additional items required for mounting or sealing.)
- If installing fixtures in a series, pull 3-conductor copper wire between each junction box in the series. If installing fixtures in parallel, pull 3-conductor copper wire from a power source to a common junction box, and from the common junction box to each fixture's junction box.
- If necessary, remove the connector cap from the port on the back of the eW Reach Powercore housing. Insert the Leader Cable into the port. Turn the Leader Cable's lock nut to the right until it locks into place.
- Use wire nuts to connect line, neutral, and ground. If installing in series, connect the Leader Cable from each fixture to the fixture's junction box. If installing in parallel, connect the Leader Cable from each fixture to the lead wire from the power source in the common junction box.
- Tuck wire connections into the junction box.

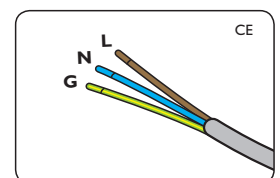
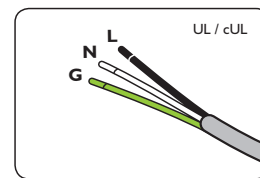
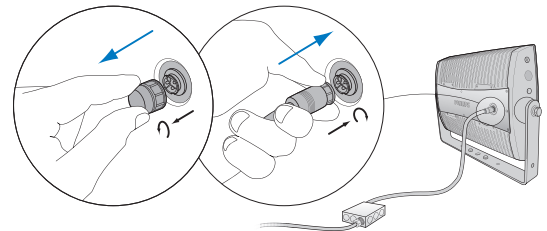
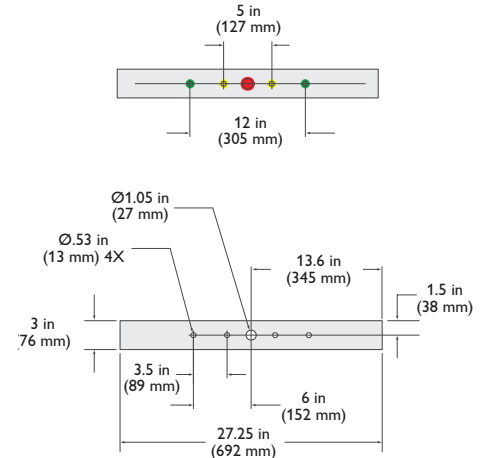
Connect to Power

In North America, you can connect the first junction box in a series, or a common junction box in a parallel installation, directly to a power source. In Europe and Japan, you connect eW Reach Powercore fixtures to power using Data Enabler Pro.

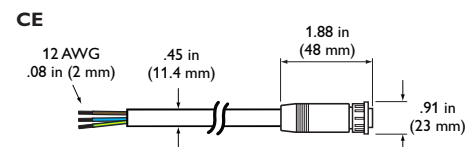
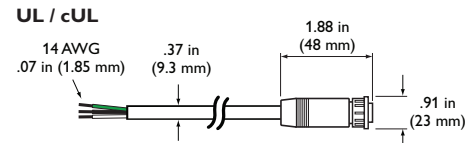
For installations in North America (UL / cUL installations):

- Run a sufficient length of 3-conductor wire from the first junction box in the series to the power source, or, if installing in parallel, run the wiring from the common junction box to the power source.
- If installing in a wet or damp location, seal all junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.

Mounting bracket dimensions for pre-drilling



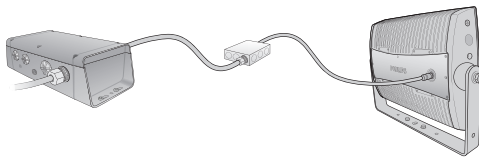
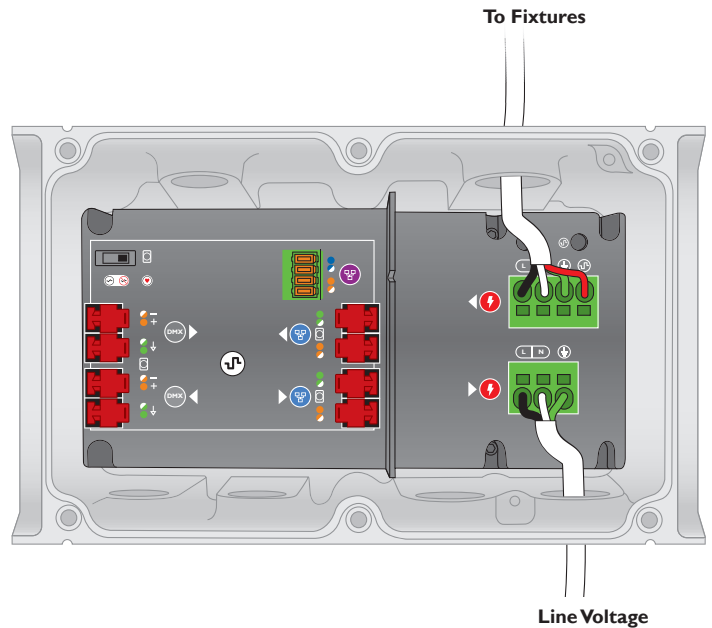
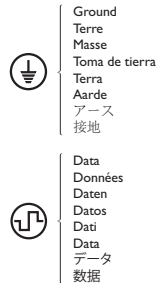
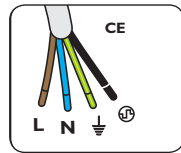
Leader Cable connector dimensions



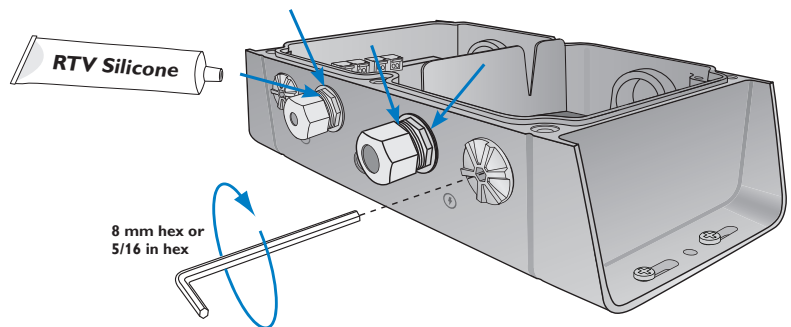
For installations in Europe (CE installations):

1. Run the wiring from the first junction box in the series to the Data Enabler Pro, or, if installing in parallel, run the wiring from the common junction box to the Data Enabler Pro. Secure connections within the Data Enabler Pro housing.

* Refer to the *Data Enabler Pro Product Guide* for complete installation and operation details.



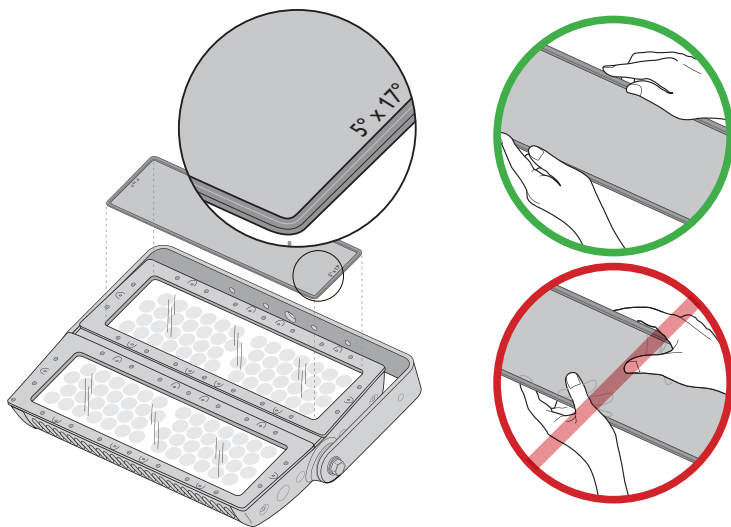
2. Secure the Data Enabler Pro cover.
3. If installing in a wet or damp location, seal all Data Enabler Pro devices and junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.



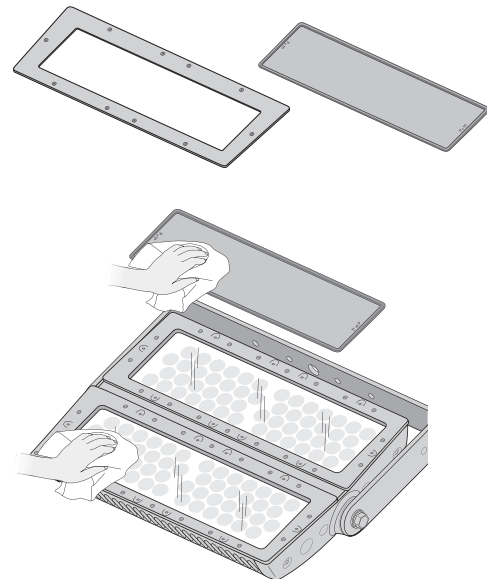
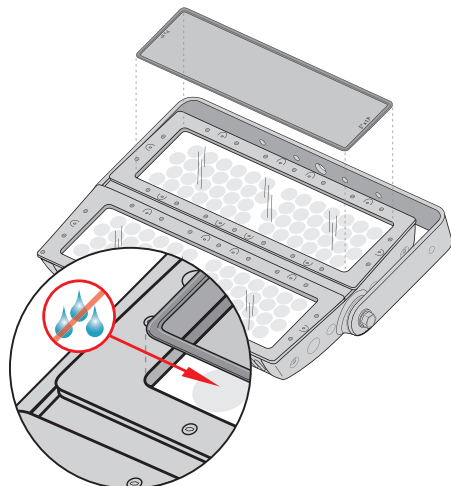
Attach Spread Lenses (Optional)

Exchangeable eW Reach Powercore 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. You can install different spread lenses on each half of the fixture's housing for precise control of light diffusion.

1. Unpack and confirm the contents of the box. Each box contains one lens kit, consisting of a spread lens with attached rubber gasket, and a bezel with 10 captured mounting screws.
2. Clean both sides of the spread lens and the face of the eW Reach Powercore housing, including glass surfaces, using a mild, non-abrasive cleaner. Ensure that all surfaces are dry, and that the gasket is properly fitted to the lens.
3. Position the spread lens so that the beam-angle designation on the side of the lens is face up. Handle the spread lens by the gasket, making sure not to touch or soil either surface of the spread lens.

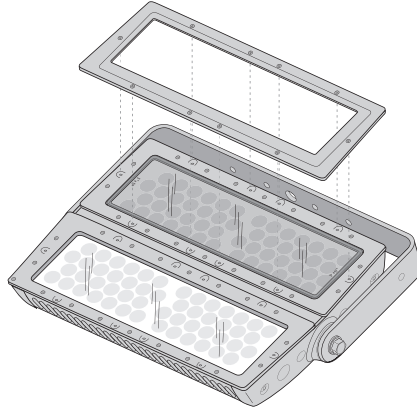


4. Place the spread lens on top of the eW Reach Powercore housing. Make sure that the spread lens and gasket are seated properly within the fixture housing. Also make sure that there is no moisture between the spread lens and the glass lens, as any moisture will compromise the effectiveness of the spread lens.

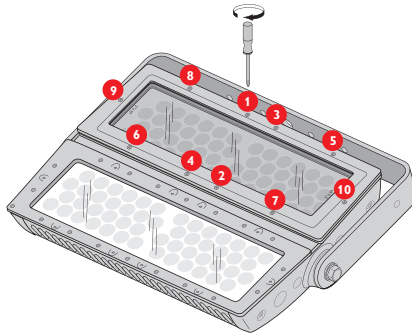


 For installations in extreme environments, refer to the Reach Spread Lens Kit Installation Instructions for details on sealing the spread lens and bezel to prohibit water ingress.

5. Position the bezel over the spread lens.

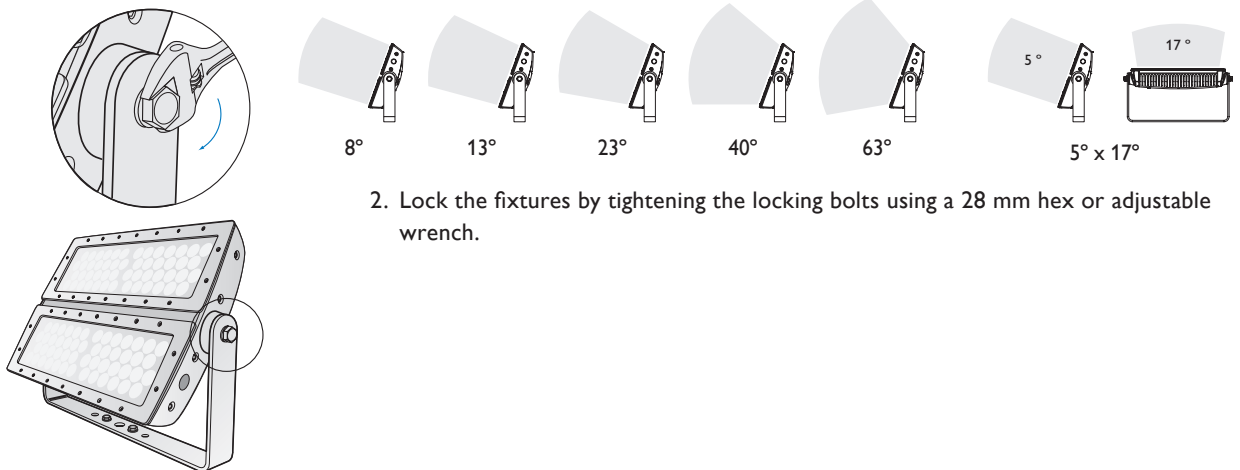


6. With a standard #2 Phillips screwdriver, attach the bezel to the fixture housing using the provided screws. To ensure a watertight seal, tighten the screws to approximately 20 – 30 in-lbs (2.2 – 3.4 Nm) in the sequence shown below.



Aim and Lock the Fixtures

1. Aim the fixtures by rotating each fixture to the correct angle.



2. Lock the fixtures by tightening the locking bolts using a 28 mm hex or adjustable wrench.



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