



eW Reach Compact Powercore

Premium long-throw compact exterior LED floodlight with solid white light



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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.

- 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 spot lighting, 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.



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.

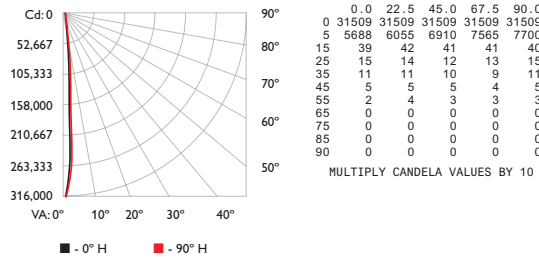
Photometrics

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

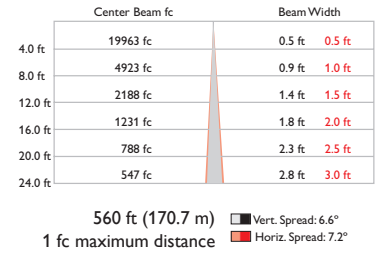
eW Reach Compact Powercore 2700 K, 5° native (no spread lens)

Lumens	5263
Efficacy	41.9 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5140	97.7
0- 40	5203	98.9
0- 60	5263	100.0
0- 90	5263	100.0
90-180	0	0.0
0-180	5263	100.0

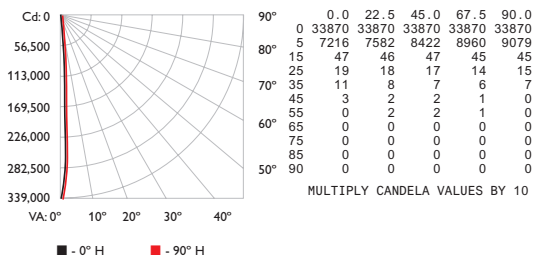
Coefficients Of Utilization - Zonal Cavity Method

RC	Effective Floor Cavity Reflectance: 20%														
	80		70		50		30		10		0				
RW	70	50	30	10	70	50	30	10	50	30	10	0			
0	119119119119	116116116116	1111111111	106106106	102102102	100									
1	116115114112	114113112111	109108107	105105104	102102101	100									
2	114112110108	112110108107	107106105	104103102	102101100	99									
3	112109107105	111108106104	106104103	104102101	102101100	99									
4	111107105103	109106104102	105103101	103101100	101100	99									
5	109106103101	108105103101	104102100	102101	99	101100	99	98							
6	108105102100	107104102100	103101	99	102100	99	101	99	98	98					
7	107103101	99	106103101	99	102100	99	101100	98	100	99	98	97			
8	106103100	99	106102100	99	101100	98	101	99	98	100	99	98	97		
9	106102100	98	105102	99	98	101	99	98	100	99	98	100	98	97	
10	105101	99	98	104101	99	98	100	99	97	100	98	97	100	98	97

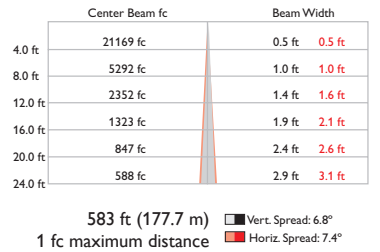
eW Reach Compact Powercore 4000 K, 5° native (no spread lens)

Lumens	6022
Efficacy	49.1 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	5952	98.8
0- 40	6000	99.6
0- 60	6021	100.0
0- 90	6022	100.0
90-180	0	0.0
0-180	6022	100.0

Coefficients Of Utilization - Zonal Cavity Method

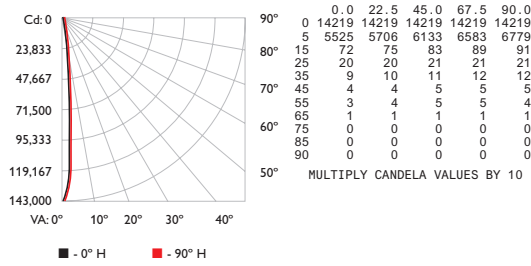
RC	Effective Floor Cavity Reflectance: 20%															
	80		70		50		30		10		0					
RW	70	50	30	10	70	50	30	10	50	30	10	0				
0	119119119119	116116116116	1111111111	106106106	102102102	100										
1	117115114112	114113112111	109108107	105105104	102102101	100										
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6	109105103101	108104102101	103101100	102101	99	101100	99	98	98							
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For lux multiply fc by 10.7

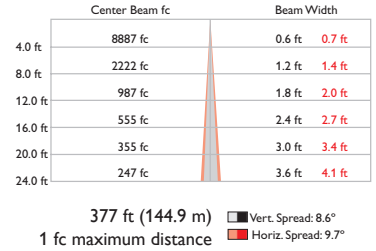
eW Reach Compact Powercore 2700 K, 8° spread lens

Lumens	4549
Efficacy	36.3 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	4405	96.8
0 - 40	4470	98.3
0 - 60	4540	99.8
0 - 90	4549	100.0
90 - 180	0	0.0
0 - 180	4549	100.0

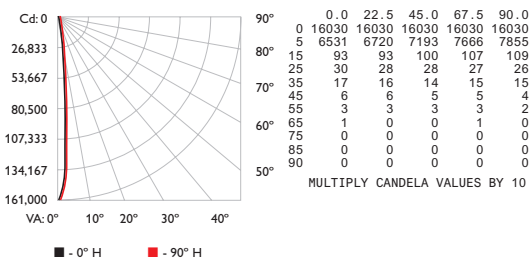
Coefficients Of Utilization - Zonal Cavity Method

RC	80			70			50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	
0	119119119119	116116116116	1111111111	106106106	102102102	100										
1	116115113112	114113111110	109108107	105104104	102101101	99										
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4	110106104101	109105103101	103101100	10210099	1009998	97										
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6	10710310098	10610210098	1019997	1009897	999796	96										
7	1061029997	1051019997	1009897	999796	999796	95										
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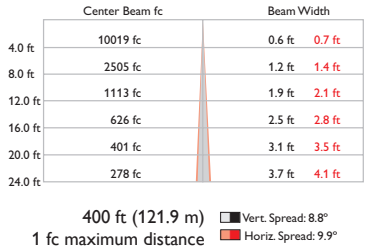
eW Reach Compact Powercore 4000 K, 8° spread lens

Lumens	5357
Efficacy	43.7 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	5187	96.8
0 - 40	5280	98.6
0 - 60	5352	99.9
0 - 90	5357	100.0
90 - 180	0	0.0
0 - 180	5357	100.0

Coefficients Of Utilization - Zonal Cavity Method

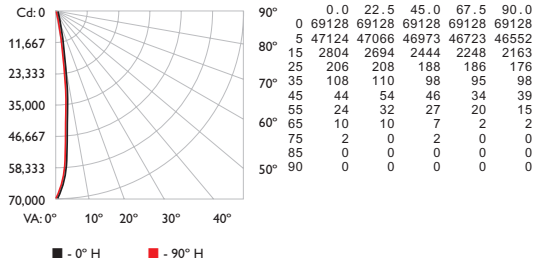
RC	80			70			50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	
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2	114111109107	112110108106	107105104	104103102	101100100	98										
3	112108106104	110107105103	105103101	103101100	10110099	97										
4	110106103101	109105103101	103101100	10210099	1009998	97										
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8	1051009896	1041009896	999796	999795	989695	94										
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For lux multiply fc by 10.7

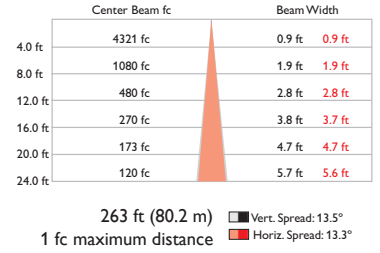
eW Reach Compact Powercore
2700 K, 13° spread lens

Lumens	4546
Efficacy	36.3 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	4420	97.2
0 - 40	4484	98.6
0 - 60	4539	99.8
0 - 90	4546	100.0
90 - 180	0	0.0
0 - 180	4546	100.0

Coefficients Of Utilization - Zonal Cavity Method

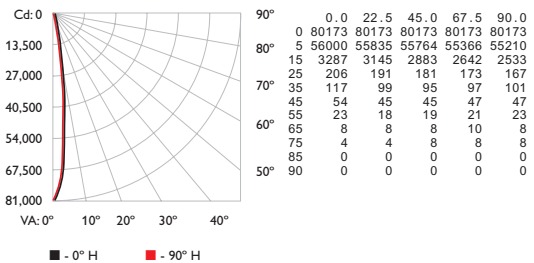
Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
0	119119119119	116116116116	1111111111	106106106	102102102	100												
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3	111107105102	109106104102	104102100	102100	99	100												
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9	101	96	94	92	100	96	94	92	95	93	91	95	93	91	94	92	91	90
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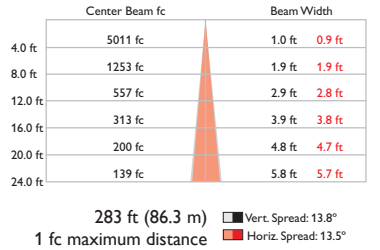
eW Reach Compact Powercore
4000 K, 13° spread lens

Lumens	5368
Efficacy	43.7 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	5237	97.6
0 - 40	5299	98.7
0 - 60	5354	99.7
0 - 90	5368	100.0
90 - 180	0	0.0
0 - 180	5368	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

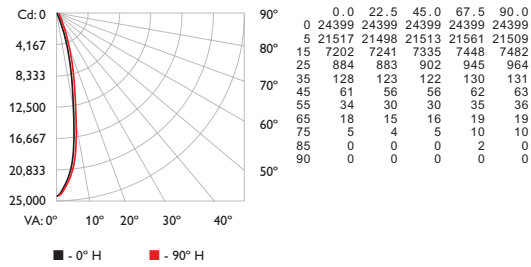
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RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
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1	116114113111	114112111110	108107106	105104103	101101100	99												
2	113110108106	111109107105	106104103	103102101	101100	99												
3	111107105103	109106104102	104102100	102100	99	100												
4	109105102100	108104101	99	102100	98	100												
5	107103100	98	106102	99	97	101												
6	105101	98	96	104100	98	96	99	97	95	98	96	95	97	95	94	93		
7	104	99	97	95	103	99	96	94	98	96	94	97	95	93	96	94	93	92
8	103	98	95	93	102	98	95	93	97	94	93	96	94	92	95	94	92	91
9	101	97	94	92	101	96	94	92	96	93	92	95	93	92	95	93	91	91
10	100	96	93	91	100	95	93	91	95	93	91	94	92	91	94	92	91	90

For lux multiply fc by 10.7

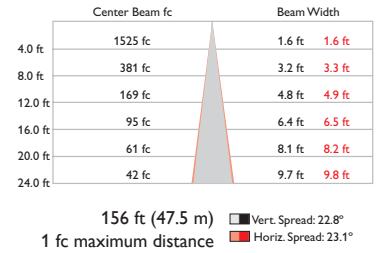
eW Reach Compact Powercore 2700 K, 23° spread lens

Lumens	4546
Efficacy	36.3 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	4355	95.8
0 - 40	4445	97.8
0 - 60	4521	99.4
0 - 90	4546	100.0
90 - 180	0	0.0
0 - 180	4546	100.0

Coefficients Of Utilization - Zonal Cavity Method

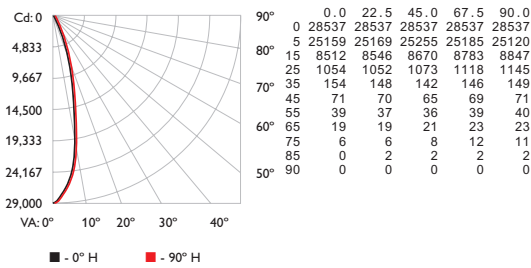
Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
0	1191	1911	1911	1911	1161	1611	1611	1611	1111	1111	1111	1061	1061	1061	1021	
1	1151	1311	1111	1111	1131	1111	1091	1081	1071	1061	1041	1031	1021	1011	100	
2	1111	1081	1051	1031	1091	1061	1041	1011	1031	1011	991	100	991	971	94	
3	1081	1041	1001	971	1061	1021	991	971	100	971	951	98	951	941	92	
4	1051	1001	961	931	1031	991	951	931	97	941	921	95	931	911	88	
5	1021	961	921	891	1011	961	921	891	94	911	881	93	901	881	86	
6	991	931	891	871	981	931	891	861	91	881	861	90	871	851	84	
7	971	911	871	841	961	901	861	841	89	861	831	88	851	831	82	
8	941	881	841	821	931	881	841	811	87	831	811	86	831	811	80	
9	921	861	821	791	911	851	821	791	85	811	791	84	811	791	78	
10	901	841	801	771	891	831	801	771	83	791	771	82	791	771	76	

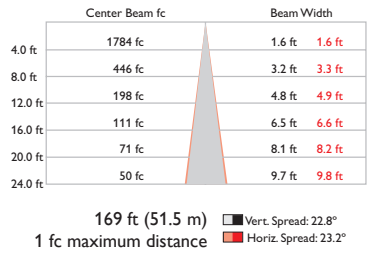
eW Reach Compact Powercore 4000 K, 23° spread lens

Lumens	5352
Efficacy	43.6 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	5126	95.8
0 - 40	5230	97.7
0 - 60	5319	99.4
0 - 90	5352	100.0
90 - 180	0	0.0
0 - 180	5352	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

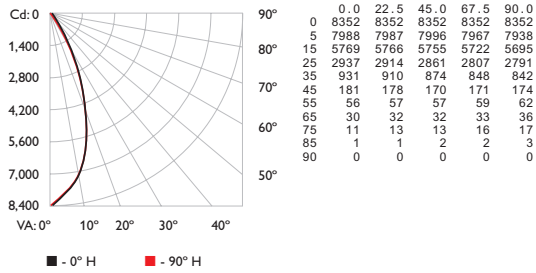
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3	1081	1041	1001	971	1061	1021	991	961	100	971	951	98	951	941	92	
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7	971	911	871	841	961	901	861	841	89	861	831	88	851	831	82	
8	941	881	841	811	931	881	841	811	87	831	811	86	831	811	80	
9	921	861	821	791	911	851	821	791	85	811	791	84	811	791	78	
10	901	841	801	771	891	831	801	771	83	791	771	82	791	771	76	

For lux multiply fc by 10.7

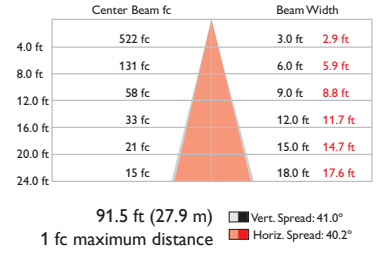
eW Reach Compact Powercore
2700 K, 40° spread lens

Lumens	4455
Efficacy	35.5 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	3622	81.3
0 - 40	4199	94.3
0 - 60	4405	98.9
0 - 90	4455	100.0
90 - 180	0	0.0
0 - 180	4455	100.0

Coefficients Of Utilization - Zonal Cavity Method

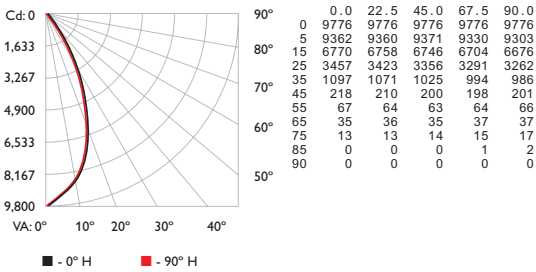
Effective Floor Cavity Reflectance: 20%

RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	1191	1911	1911	1911	1161	1611	1611	1611	1111	1111	1111	1061	1061	1061	1021	1021	1021	100			
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6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71			
7	87	79	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67			
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			
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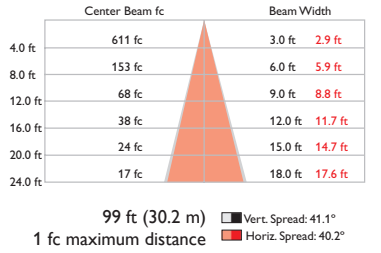
eW Reach Compact Powercore
4000 K, 40° spread lens

Lumens	5217
Efficacy	42.5 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	4247	81.4
0 - 40	4925	94.4
0 - 60	5165	99.0
0 - 90	5217	100.0
90 - 180	0	0.0
0 - 180	5217	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

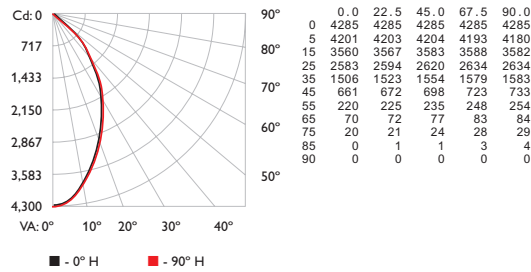
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RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	1191	1911	1911	1911	1161	1611	1611	1611	1111	1111	1111	1061	1061	1061	1021	1021	1021	100			
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2	1091	1041	1019	97	1071	103	99	96	99	97	94	96	94	92	94	92	90	89			
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84			
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79			
5	95	87	82	78	93	86	82	78	85	80	77	83	79	76	82	78	76	74			
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71			
7	87	79	73	69	86	78	73	69	77	72	69	76	72	69	75	71	68	67			
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			
10	77	68	63	60	76	68	63	59	67	62	59	66	62	59	66	62	59	58			

For lux multiply fc by 10.7

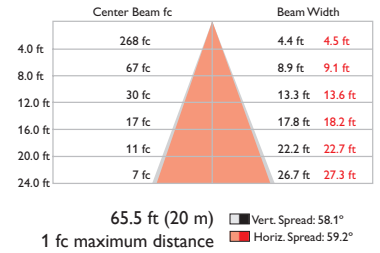
eW Reach Compact Powercore 2700 K, 63° spread lens

Lumens	4435
Efficacy	35.4 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	2584	58.3
0 - 40	3552	80.1
0 - 60	4323	97.5
0 - 90	4435	100.0
90 - 180	0	0.0
0 - 180	4435	100.0

Coefficients Of Utilization - Zonal Cavity Method

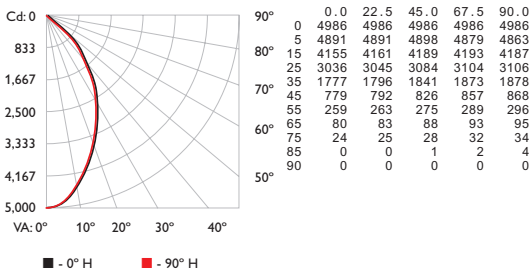
Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
0	1191	1911	1911	1911	1161	1611	1611	1611	1111	1111	1111	1061	0610	0610	100	
1	1131	1010	1071	104	1101	1071	1051	103	1031	101	100	100	98	97	92	
2	1061	01	96	92	104	99	95	91	96	92	89	93	90	87	84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	76	
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	70	
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	64	
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	59	
7	79	69	62	57	78	68	62	57	67	61	57	65	60	56	55	
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	51	
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	47	
10	67	57	50	46	66	56	50	46	55	50	46	54	49	45	44	

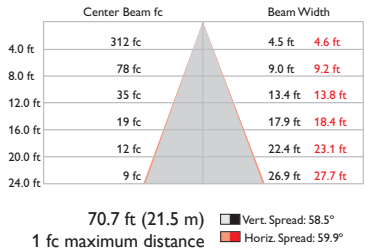
eW Reach Compact Powercore 4000 K, 63° spread lens

Lumens	5208
Efficacy	42.4 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	3027	58.1
0 - 40	4173	80.1
0 - 60	5081	97.6
0 - 90	5208	100.0
90 - 180	0	0.0
0 - 180	5208	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

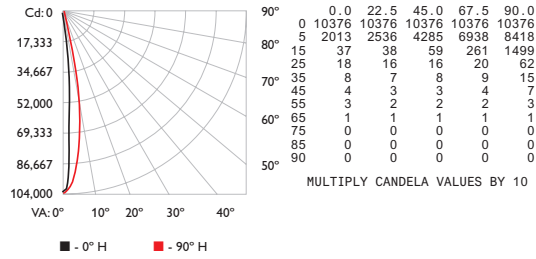
RC	80			70			50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
0	1191	1911	1911	1911	1161	1611	1611	1611	1111	1111	1111	1061	0610	0610	100	
1	1131	1010	1071	104	1101	1071	1051	103	1031	101	100	100	98	97	92	
2	1061	01	96	92	104	99	95	91	96	92	89	93	90	87	84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	76	
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	70	
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	64	
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	59	
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	55	
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	51	
9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	47	
10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	44	

For lux multiply fc by 10.7

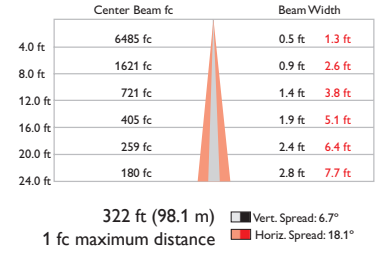
eW Reach Compact Powercore
2700 K, 5° x 17° spread lens

Lumens	4585
Efficacy	36.6 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	4471	97.5
0 - 40	4529	98.8
0 - 60	4579	99.9
0 - 90	4585	100.0
90 - 180	0	0.0
0 - 180	4585	100.0

Coefficients Of Utilization - Zonal Cavity Method

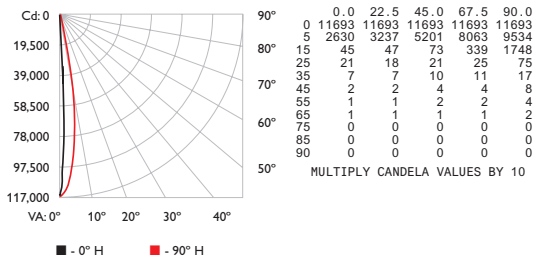
Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
0	1191	191	191	191	1161	161	161	161	1111	1111	1111	1061	061	061	102	102	102	100
1	1161	141	131	111	1141	121	111	110	1081	071	061	1051	041	031	101	101	100	99
2	1131	111	108	106	111	109	107	105	106	104	103	103	102	101	101	100	99	97
3	1111	107	105	103	109	106	104	102	104	102	100	102	100	99	100	98	97	96
4	1091	105	102	100	107	104	101	99	102	100	98	100	98	97	99	97	96	95
5	1071	103	100	98	106	102	99	97	100	98	96	99	97	96	98	96	95	94
6	1051	101	98	96	104	100	97	95	99	97	95	98	96	94	97	95	94	93
7	104	99	96	94	103	99	96	94	98	95	94	97	95	93	96	94	93	92
8	102	98	95	93	102	97	95	93	97	94	93	96	94	92	95	93	92	91
9	101	97	94	92	100	96	94	92	96	93	92	95	93	91	94	92	91	90
10	100	95	93	91	99	95	93	91	95	92	91	94	92	90	94	92	90	90

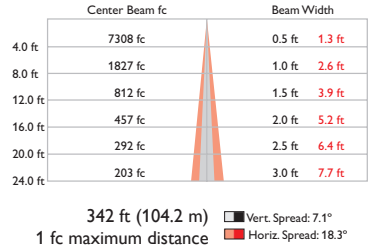
eW Reach Compact Powercore
4000 K, 5° x 17° spread lens

Lumens	5423
Efficacy	44.2 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	5299	97.7
0 - 40	5366	99.0
0 - 60	5414	99.8
0 - 90	5423	100.0
90 - 180	0	0.0
0 - 180	5423	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
0	1191	191	191	191	1161	161	161	161	1111	1111	1111	1061	061	061	102	102	102	100
1	1161	141	131	111	1141	121	111	110	1081	071	061	1051	041	031	101	101	100	99
2	1131	111	108	106	111	109	107	105	106	104	103	103	102	101	101	100	99	97
3	1111	107	105	103	109	106	104	102	104	102	100	102	100	99	100	98	97	96
4	1091	105	102	100	107	104	101	99	102	100	98	100	99	97	99	97	96	95
5	1071	103	100	98	106	102	99	97	100	98	96	99	97	96	98	96	95	94
6	1051	101	98	96	104	100	97	95	99	97	95	98	96	94	97	95	94	93
7	104	99	96	94	103	99	96	94	98	95	94	97	95	93	96	94	93	92
8	102	98	95	93	102	97	95	93	97	94	93	96	94	92	95	93	92	91
9	101	97	94	92	100	96	94	92	96	93	92	95	93	91	94	92	91	90
10	100	95	93	91	99	95	93	91	95	92	91	94	92	90	94	92	90	90

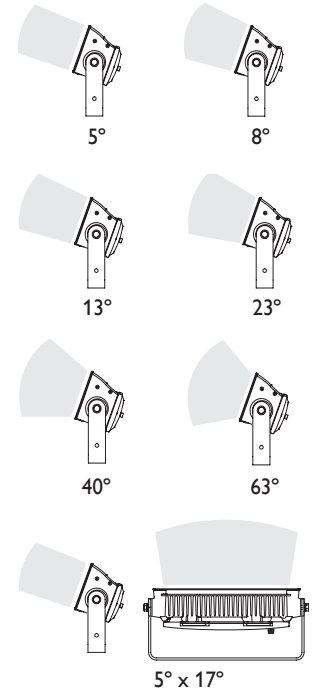
For lux multiply fc by 10.7

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Color Temp.*	5°	8°	13°	23°	40°	63°	5° x 17°
Lumens†	2700 K	5263	4549	4546	4546	4455	4435	4585
	4000 K	6022	5357	5368	5352	5217	5208	5423
Efficacy (lm / W)	2700 K	41.9	36.3	36.3	36.3	35.5	35.4	36.6
	4000 K	49.1	43.7	43.7	43.6	42.5	42.4	44.2

Item	Specification	2700 K*	4000 K*
Output	Beam Angle	5° native 8°, 13°, 23°, 40°, 63°, and 5° x 17° (asymmetric) spread lenses	
	Lumen Maintenance‡	60,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 100,000 hours L50 @ 25° C 80,000 hours L50 @ 50° C	
	CRI	81 (2700 K)	79 (4000 K)
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	
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	UL / cUL, FCC Class A, CE, PSE, C-Tick	
	Environment	Dry / Damp / Wet Location, IP66	



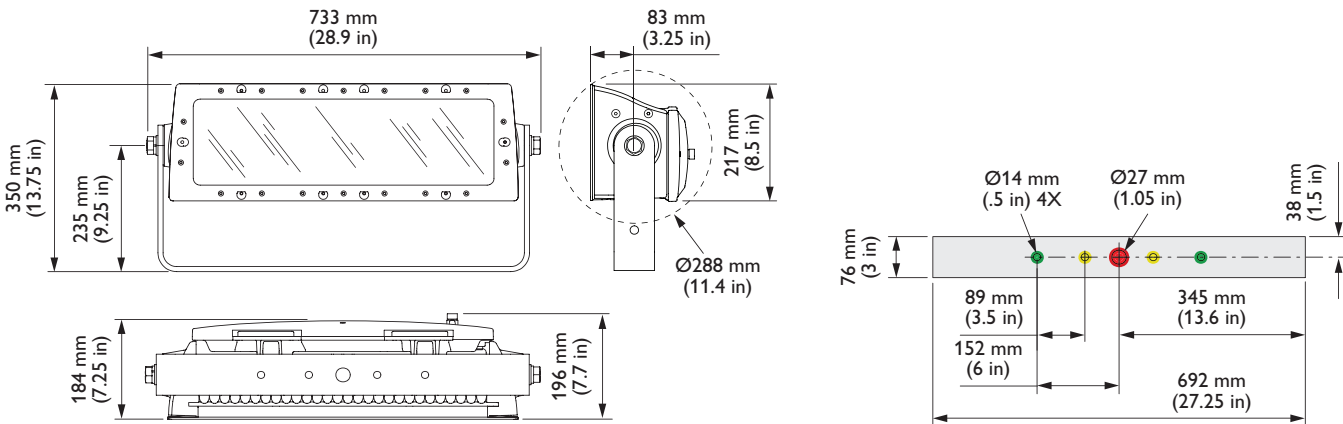
* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.



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

‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output). L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/apnotes/lm-80-08.pdf for more information.

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Fixtures and Accessories

eW Reach Compact 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 Compact Powercore fixture to a power source.
- 3-conductor copper wire to connect eW Reach Compact Powercore fixtures in series or in parallel. Standard 12 AWG (2.05 mm) stranded wire is recommended.

Custom Configurations

In addition to the standard configurations listed here, custom configurations are also available with non-standard color temperatures or Royal Blue. Refer to the eW Reach Compact Powercore Ordering Information sheet at www.philipscolorkinetics.com/ls/essentialwhite/ewreachcompact/ 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

Item	Type	Item Number	Philips 12NC	
eW Reach Compact Powercore <i>Includes 6 ft (1.8 m) Leader Cable</i>	2700 K	UL / cUL	523-000084-00	910503703281
		CE / PSE	523-000084-01	910503703282
	4000 K	UL / cUL	523-000084-06	910503703951
		CE / PSE	523-000084-07	910503704185
Replacement Leader Cable 6 ft (1.8 m)	UL / cUL	108-000046-00	910503700621	
	CE / PSE	108-000046-01	910503700622	
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.

Installation

eW Reach Compact Powercore, a high-performance compact exterior architectural white floodlight with extended light projection, is designed to brilliantly illuminate prominent, signature façades. Because each eW Reach Compact Powercore fixture weighs 51 lb (23 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 over the fixture's primary lens.

Owner / User Responsibilities


It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Reach Compact 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 Compact Powercore fixtures in relation to each other. eW Reach Compact 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 as fixture spacing, circuit size, line voltage, and method of connection (in series or in parallel). For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.
2. 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

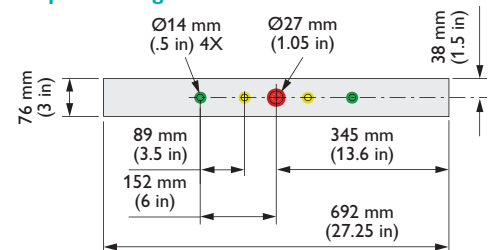
 Refer to the eW Reach Compact Powercore Installation Instructions for specific warning and caution statements.

Position and Mount Fixtures

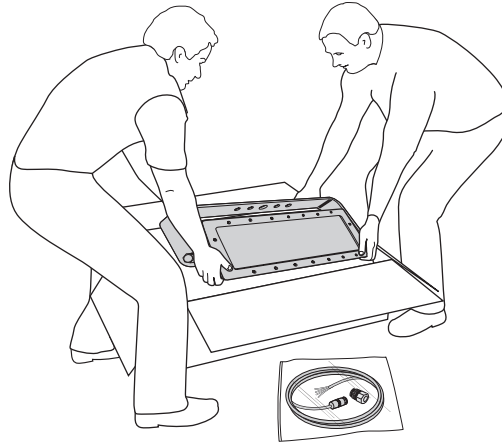
Ensure that the fixture mounting locations and substrates are sufficiently sturdy to bear the weight of each eW Reach Compact Powercore fixture. Pre-drill holes in the mounting substrate if necessary, making reference to the mounting bracket dimensions. Use at least two screws to secure each fixture,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

If mounting eW Reach Compact 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 51 lb (23 kg), and has an effective projected area (EPA) of 0.186 m².

Mounting bracket dimensions for pre-drilling

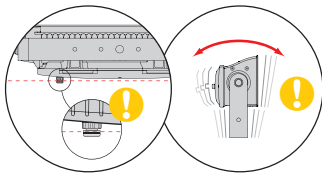


1. Unpack eW Reach Compact Powercore fixtures. You may need two people to lift the fixture out of the box and position it in the mounting location.



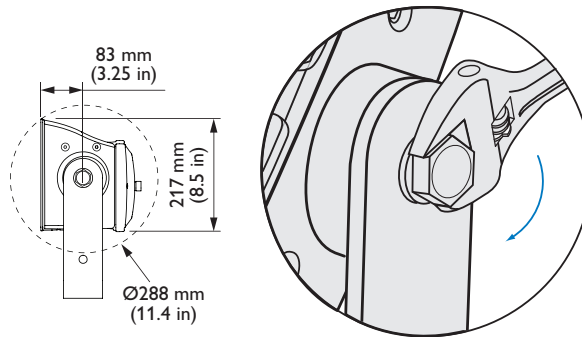
Included in the box

eW Reach Compact Powercore fixture
6 ft (1.8 m) Leader Cable
Cable Strain Relief
Installation Instructions



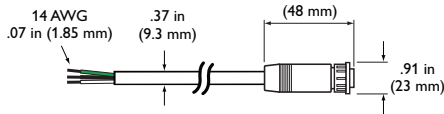
***** Do not rest eW Reach Compact Powercore on its back, as doing so may damage the connector port. Be careful not to tip the fixture over during positioning.

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

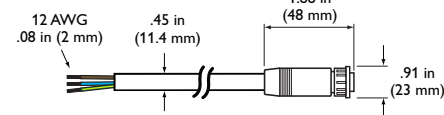


Leader Cable connector dimensions

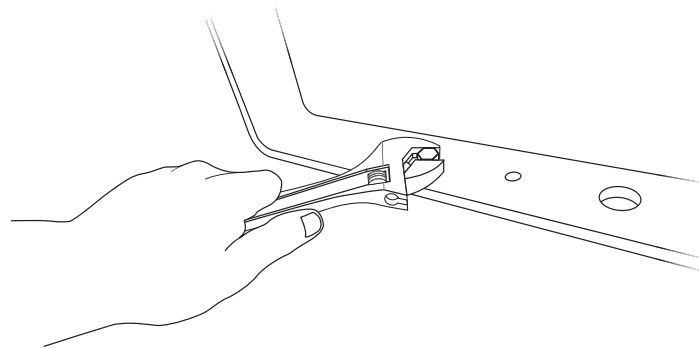
UL / cUL



CE



4. 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.

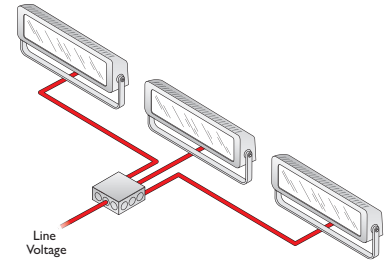


Connect Fixtures

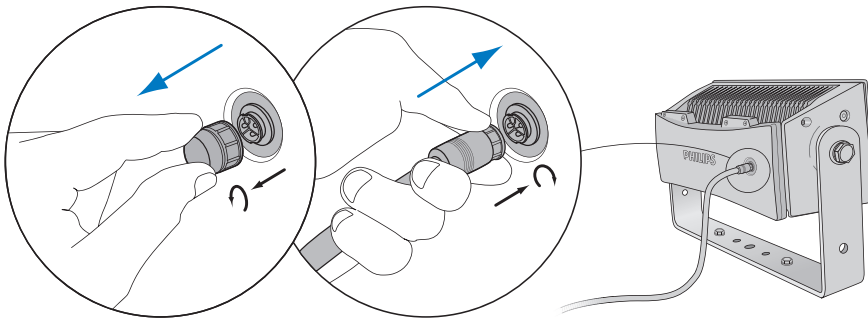
eW Reach Compact Powercore fixtures can be installed in series or in parallel (wired to a common junction box). Ensure that all junction boxes are suitable for the environment and that all wiring between junction boxes complies with local codes.

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

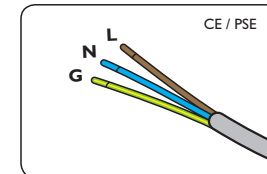
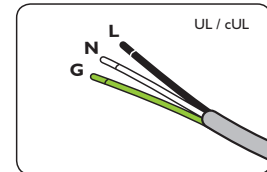
1. Install junction boxes. (Refer to the manufacturer's literature for additional items required for mounting or sealing.)
2. If installing fixtures in a series, pull 3-conductor copper wire between each junction box in the series. If installing fixtures in parallel, pull 3-conductor copper wire from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



eW Reach Compact Powercore fixtures installed in parallel



4. 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.
5. Tuck wire connections into the junction box.



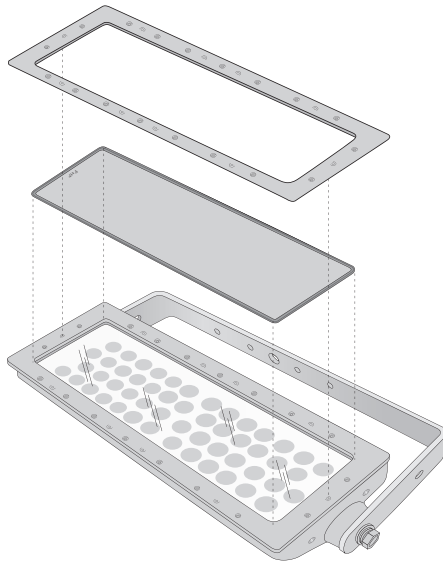
Connect to Power

You can connect the first junction box in a series, or a common junction box in a parallel installation, directly to a power source.

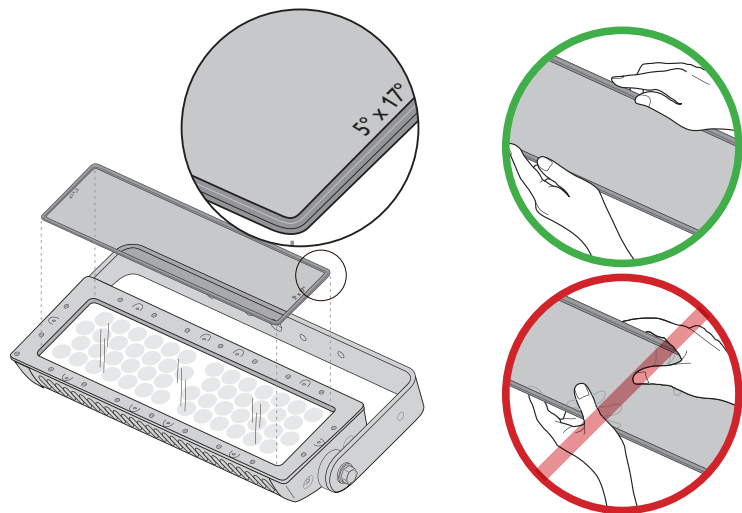
1. Run a sufficient length of 3-conductor wire from the first junction box in the series to the power source, or, if installing in parallel, run the wiring from the common junction box to the power source.
2. If installing in a wet or damp location, seal all junction boxes with electronics-grade RTV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


Attach Spread Lenses (Optional)

Exchangeable eW Reach Compact 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.

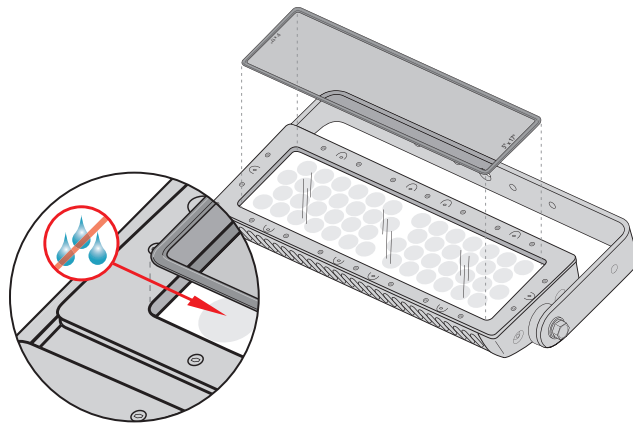


1. Unpack and confirm the contents of the box. Each box contains one lens kit, consisting of a spread lens with attached rubber gasket, and a bezel with 10 captured mounting screws.
2. Clean both sides of the spread lens and the face of the eW Reach Compact Powercore housing, including glass surfaces, 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.

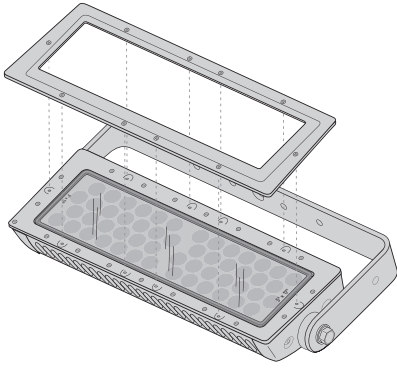


 For installations in extreme environments, refer to the Reach Spread Lens Kit Installation Instructions for details on sealing the spread lens and bezel to prohibit water ingress.

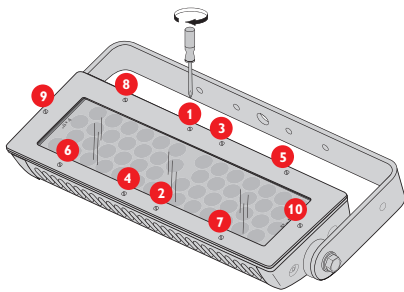
4. Place the spread lens on top of the eW Reach Compact Powercore housing. Make sure that the spread lens and gasket are seated properly within the fixture housing. Also make sure that there is no moisture between the spread lens and the glass lens, as any moisture will compromise the effectiveness of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



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.



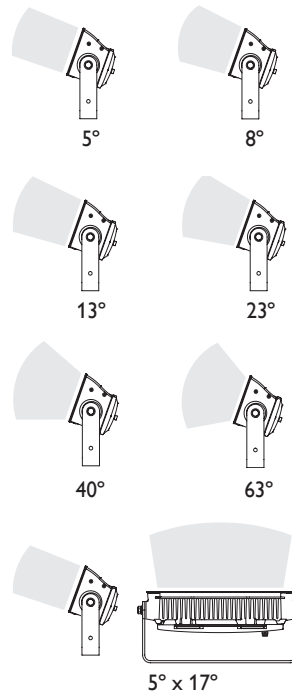
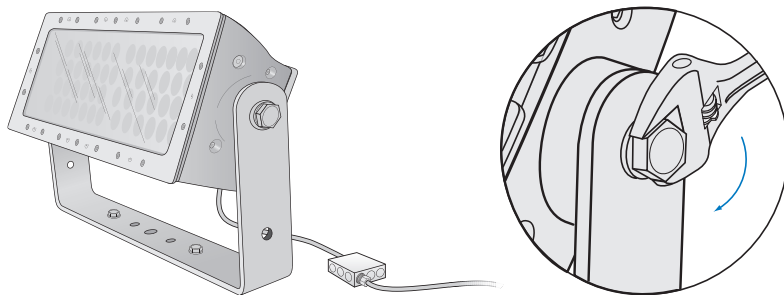
✳ Do not look directly into the fixture when aiming and locking.

✳ For exterior applications with direct exposure to water, eW Reach Compact Powercore fixtures should not be aimed directly upwards, as water may pool on the lens and affect beam quality. Instead, the fixture should be angled to allow for proper water drainage.

Aim and Lock the Fixtures

Make sure that the power is ON before aiming 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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