



# eW Cove QLX Powercore

Affordable, high-output linear cove light

**PHILIPS**

# eW Cove QLX Powercore

## Affordable, high-output linear cove light

eW® Cove QLX Powercore represents the next generation of high-quality linear LED cove lighting from Philips Color Kinetics. This elegant, low-profile fixture delivers up to 300 lumens per foot of white or solid color light at an affordable price. eW Cove QLX Powercore is designed to replace traditional white cove lighting sources for wall and ceiling glow effects, wall washing, and indirect lighting from a single cove. Multiple color temperatures, solid colors, beam angles, and lengths afford an abundance of design options.

- Replaces traditional cove lighting — With excellent light output, competitive pricing, long lifetime, energy efficiency, and virtually maintenance-free operation, eW Cove QLX Powercore represents an attractive alternative to traditional cove lighting sources. eW Cove QLX Powercore replaces comparable T8 and T12 fluorescent sources with a three-year payback, and comparable halogen and xenon sources with one-year payback.
- Multiple options for design flexibility — Available in four color temperatures, ranging from a warm 2700 K to a cool 4000 K, and four solid colors (Red, Amber, Green, and Blue). Lengths of 12 in (305 mm) and 6 in (152 mm), along with wide and medium beam angles, offer further design flexibility.
- Support for multiple voltages — eW Cove QLX Powercore accepts power input of 100, 120, or 220–240 VAC for consistent installation and operation from line voltage in many locations.
- Compact and flexible — eW Cove QLX Powercore low-profile fixtures fit in narrow alcoves, display cases, light boxes, and other tight spaces where light sources requiring ballasts, external power supplies, and other auxiliary equipment cannot.
- Integrates patented Powercore® technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for external power supplies and lowering total system cost.
- Superior color consistency and accuracy — Optibin®, an advanced binning algorithm, exceeds the recognized standards for color quality to guarantee uniformity and consistency of hue and color temperature across LEDs, fixtures, and manufacturing runs.
- Simple installation — Powercore delivers line voltage directly to the fixtures, simplifying installation and allowing long product runs. Easy-to-install 4 ft (1.2 m) mounting tracks allow quick project setup in linear applications.
- Easy mounting and positioning — With end-to-end locking power connectors that can make 180° turns, eW Cove QLX Powercore fixtures are easy to position in even the most challenging mounting circumstances. Fixtures rotate in 10° increments through a full 180° for precise aiming and color mixing. Optional mounting tracks support vertical and overhead positioning. 1 ft (305 mm) and 5 ft (1.5 m) jumper cables can add extra space between fixtures.
- Smooth dimming capability — Patented DIMand® technology offers smooth dimming capability with standard ELV-type dimmers.



### ENERGY STAR® Certified

As an ENERGY STAR certified LED luminaire, eW Cove QLX Powercore meets ENERGY STAR requirements for efficacy, color rendering, color consistency, useful life, and power factor.



# Setting New Standards for Color Consistency

Achieving consistency of color temperature and hue in linear white lighting applications is one of the most difficult challenges facing lighting designers and installers. Cove lighting applications are particularly challenging. Light sources are positioned very close to the illuminated surfaces — usually white walls or ceilings — so there is very little room for mixing, and the appearance of the light is strongly angle-dependent. Viewed from a distance, even small variations in color temperature and hue are clearly visible.

Linear fluorescent light sources are fairly uniform, but cove applications that use them can suffer from socket shadowing — areas of low luminance toward the ends of the fluorescent tubes — and hot spots, creating an uneven distribution of light along the illuminated surfaces. Fluorescent fixtures at the same nominal color temperature are also known to vary greatly in hue from manufacturer to manufacturer.

Linear LED cove lights pose their own challenges to consistency and uniformity of light distribution. The beam produced by an LED cove light is a series of adjacent point sources, each with a certain degree of hue and color temperature variation. Unless these variations are tightly managed, unwanted tiger-stripping can result.

With eW Cove QLX Powercore, Philips Color Kinetics introduces an improved version of its patented Optibin® binning algorithm. Optibin's advanced bin selection formula sets new standards for color consistency and uniformity across LEDs. Optibin allows significantly smaller variations in color temperature (CCT) and hue (Duv) than ANSI Chromaticity Standard C78.377A, ensuring virtually imperceptible differences in output from LED to LED and fixture to fixture.

	ANSI Chromaticity Standard*		eW Cove QLX Powercore†	
	CCT Range	Allowed Variation	Measured CCT	Actual Variation
2700 K	2725 K ± 145 K	5.3%	2770 K +45 K	1.7%
3000 K	3045 K ± 175 K	5.7%	3070 K +25 K	0.8%
3500 K	3465 K ± 245 K	7.1%	3308 K -157 K	4.5%
4000 K	3985 K ± 275 K	6.9%	3966 K -19 K	0.5%

\* ANSI Chromaticity Standard C78.377A  
† eW Cove QLX Powercore color reports

eW Cove QLX Powercore also features extremely high color spatial uniformity, exceeding even ENERGY STAR standards. There are no visible color variations across the beam from center to edge, or at different viewing angles — an especially important consideration in angle-dependent cove lighting applications.

The result? eW Cove QLX Powercore delivers extremely uniform and consistent color in linear cove applications, with no socket shadowing, hot spots, color shifting, tiger-stripping, or unwanted edge effects. eW Cove QLX Powercore offers quality of light as good as if not better than comparable fluorescent fixtures — while also offering superior energy efficiency and an average useful life 10 to 20 times longer than the rated life of many fluorescent sources.

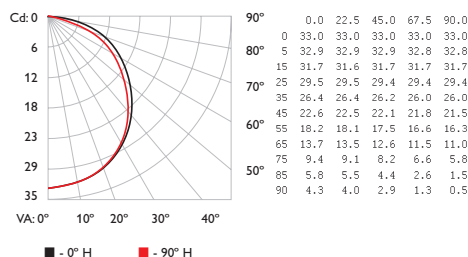
# Photometrics

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

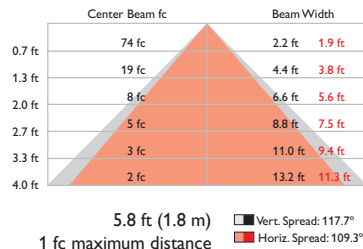
## eW Cove QLX Powercore 2700 K, 6 in (152 mm), wide beam

Lumens	103
Efficacy	36.3 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Zonal Lumen

ZONE	LUMENS	% FIXT
0- 30	25.7	24.9
0- 40	42.1	40.8
0- 60	74.7	72.4
0- 90	99.8	96.8
90-120	3.1	3.0
90-130	3.3	3.2
90-150	3.4	3.2
90-180	3.4	3.2
0-180	103.2	100.0

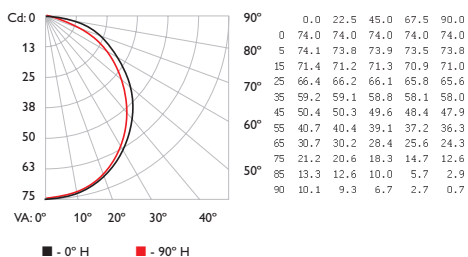
### Coefficients Of Utilization - Zonal Cavity Method

RC	Effective Floor Cavity Reflectance: 20%																	
	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	97	93	104	99	95	91	94	90	87	89	87	84	85	83	81	78
2	97	88	81	74	94	86	79	73	82	76	71	78	73	69	74	70	67	64
3	88	77	68	61	85	75	67	61	72	65	59	68	62	58	65	60	56	54
4	80	68	59	52	78	66	58	51	63	56	50	61	54	49	58	53	48	46
5	74	61	51	44	71	59	51	44	57	49	43	54	48	42	52	46	42	39
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41	37	34
7	63	49	40	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	33	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	34	28	24	22

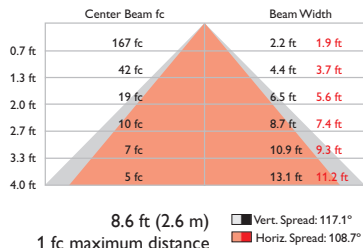
## eW Cove QLX Powercore 2700 K, 12 in (305 mm), wide beam

Lumens	232
Efficacy	45.4 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Zonal Lumen

ZONE	LUMENS	% FIXT
0- 30	57.6	24.9
0- 40	94.3	40.7
0- 60	167.1	72.2
0- 90	223.5	96.6
90-120	7.3	3.2
90-130	7.7	3.3
90-150	7.9	3.4
90-180	7.9	3.4
0-180	231.5	100.0

### Coefficients Of Utilization - Zonal Cavity Method

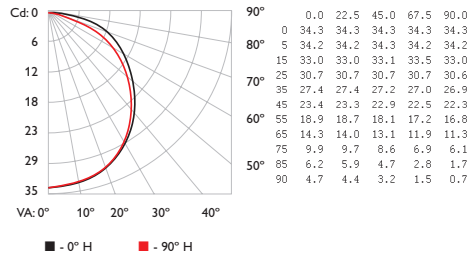
RC	Effective Floor Cavity Reflectance: 20%																	
	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	108	108	108	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	87	89	86	84	85	83	81	78
2	96	87	80	74	93	85	79	73	81	76	71	77	73	69	74	70	67	64
3	87	76	68	61	84	75	67	61	71	65	59	68	62	58	65	60	56	54
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	53	48	46
5	73	60	51	44	71	59	50	44	56	49	43	54	48	43	52	46	42	40
6	68	54	45	39	65	53	45	38	51	43	38	49	42	37	47	41	37	35
7	63	49	40	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30
8	58	45	36	30	57	44	36	30	42	35	30	41	34	29	39	34	29	27
9	54	41	33	27	53	40	32	27	39	32	27	38	31	26	36	31	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	29	24	34	28	24	22

For lux multiply fc by 10.7

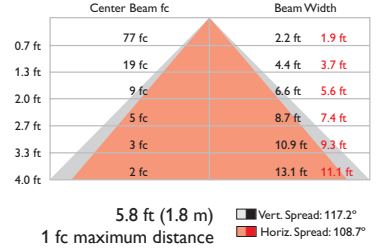
**eW Cove QLX Powercore**  
3000 K, 6 in (152 mm), wide beam

Lumens	108
Efficacy	37.8 lm / W

**Polar Candela Distribution**



**Illuminance at Distance**



**Zonal Lumen**

ZONE	LUMENS	%FIXT
0- 30	26.7	24.7
0- 40	43.8	40.5
0- 60	77.5	71.7
0- 90	103.9	96.1
90-120	3.7	3.4
90-130	3.9	3.6
90-150	4.1	3.8
90-180	4.2	3.9
0-180	108.1	100.0

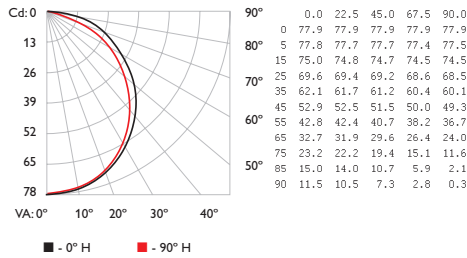
**Coefficients Of Utilization - Zonal Cavity Method**

RC	80				70				50				Effective Floor Cavity Reflectance: 20%			
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	117	114	141	141	114	108	108	108	103	103	103	98
1	106	100	95	91	103	98	93	89	93	89	86	89	86	83	84	82
2	96	87	79	73	93	85	78	72	81	75	70	77	72	68	73	69
3	87	76	67	60	84	74	66	60	71	64	58	67	62	57	64	60
4	79	67	58	51	77	65	57	50	62	55	49	60	53	48	57	52
5	73	60	50	44	70	58	50	43	56	48	42	54	47	42	51	46
6	67	54	44	38	65	52	44	38	50	43	37	48	42	36	47	41
7	62	48	40	33	60	48	39	33	46	38	33	44	37	32	42	36
8	58	44	36	30	56	43	35	29	42	34	29	40	34	29	39	33
9	54	40	32	27	52	40	32	26	38	31	26	37	31	26	36	30
10	51	37	29	24	49	37	29	24	35	28	24	34	28	23	33	27

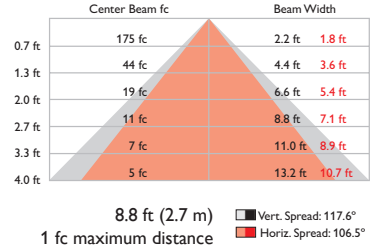
**eW Cove QLX Powercore**  
3000 K, 12 in (305 mm), wide beam

Lumens	242
Efficacy	42.5 lm / W

**Polar Candela Distribution**



**Illuminance at Distance**



**Zonal Lumen**

ZONE	LUMENS	%FIXT
0- 30	60.3	24.9
0- 40	98.6	40.7
0- 60	174.2	72.0
0- 90	233.4	96.5
90-120	8.0	3.3
90-130	8.4	3.5
90-150	8.6	3.5
90-180	8.6	3.5
0-180	242.0	100.0

**Coefficients Of Utilization - Zonal Cavity Method**

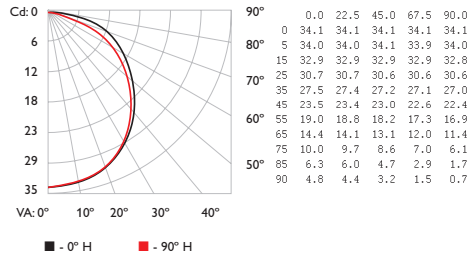
RC	80				70				50				Effective Floor Cavity Reflectance: 20%			
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99
1	107	101	97	92	104	99	94	90	94	90	87	89	86	84	85	83
2	97	88	80	74	94	85	79	73	81	76	71	78	73	69	74	70
3	88	77	68	61	85	75	67	60	71	65	59	68	62	57	65	60
4	80	68	59	52	78	66	58	51	63	56	50	60	54	49	58	52
5	74	60	51	44	71	59	50	44	57	49	43	54	48	42	52	46
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41
7	63	49	40	34	61	48	40	34	46	39	33	45	38	33	43	37
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	36	30
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	34	28

For lux multiply fc by 10.7

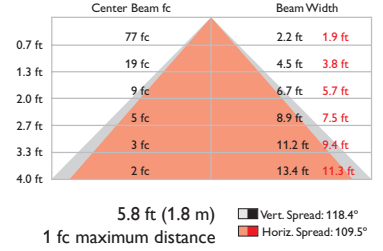
## eW Cove QLX Powercore 3500 K, 6 in (152 mm), wide beam

Lumens	109
Efficacy	38.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	26.7	24.6
0- 40	43.7	40.3
0- 60	77.7	71.6
0- 90	104.3	96.1
90-120	3.7	3.4
90-130	4.0	3.7
90-150	4.2	3.9
90-180	4.2	3.9
0-180	108.5	100.0

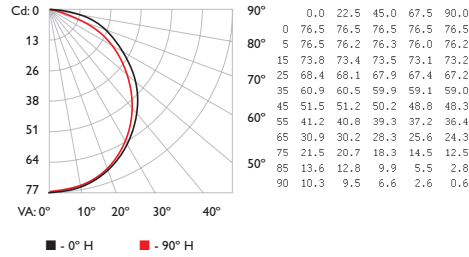
### Coefficients Of Utilization - Zonal Cavity Method

RC	Effective Floor Cavity Reflectance: 20%																	
	80			70			50			30			10					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	108	108	108	103	103	103	98	98	98	96
1	105	100	95	91	102	97	93	89	93	89	86	88	85	83	84	82	80	77
2	95	86	79	73	92	84	78	72	80	75	70	77	72	68	73	69	66	63
3	86	75	67	60	84	74	66	59	70	64	58	67	61	57	64	59	55	53
4	79	67	58	51	76	65	57	50	62	55	49	60	53	48	57	52	47	45
5	73	59	50	43	70	58	49	43	56	48	42	53	47	42	51	45	41	39
6	67	53	44	36	65	52	44	37	50	43	37	48	41	36	46	40	36	34
7	62	48	39	33	60	47	39	33	46	38	33	44	37	32	42	36	32	30
8	58	44	35	30	56	43	35	29	42	34	29	40	34	29	39	33	28	26
9	54	40	32	26	52	40	32	26	38	31	26	37	30	26	36	30	25	24
10	50	37	29	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

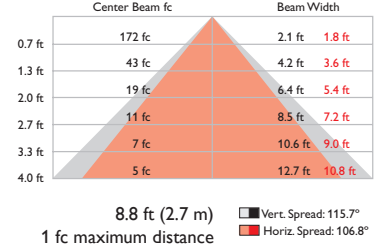
## eW Cove QLX Powercore 3500 K, 12 in (305 mm), wide beam

Lumens	235
Efficacy	42.7 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	59.3	25.3
0- 40	96.7	41.2
0- 60	170.3	72.6
0- 90	226.7	96.6
90-120	7.3	3.1
90-130	7.7	3.3
90-150	7.9	3.4
90-180	7.9	3.4
0-180	234.6	100.0

### Coefficients Of Utilization - Zonal Cavity Method

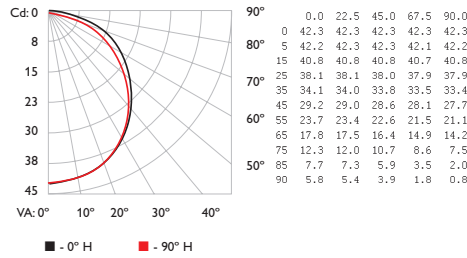
RC	Effective Floor Cavity Reflectance: 20%																	
	80			70			50			30			10					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	101	97	92	104	99	94	91	94	90	87	89	87	84	85	83	81	79
2	97	88	81	74	94	86	79	73	82	76	71	78	73	69	74	70	67	65
3	88	77	68	62	85	75	67	61	72	65	59	68	63	58	65	61	56	54
4	80	68	59	52	78	66	58	51	63	56	50	61	54	49	58	53	48	46
5	74	61	51	45	71	59	51	44	57	49	43	54	48	43	52	47	42	40
6	68	55	45	39	66	53	45	39	51	44	38	49	43	37	47	41	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24

For lux multiply fc by 10.7

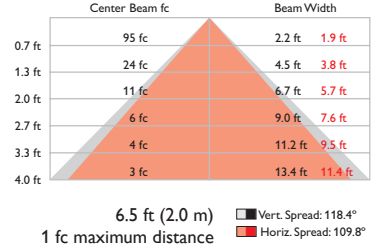
eW Cove QLX Powercore  
4000 K, 6 in (152 mm), wide beam

Lumens	134
Efficacy	47.0 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	33.1	24.6
0- 40	54.2	40.4
0- 60	96.3	71.8
0- 90	129.3	96.3
90-120	4.4	3.3
90-130	4.7	3.5
90-150	4.9	3.7
90-180	5.0	3.7
0-180	134.3	100.0

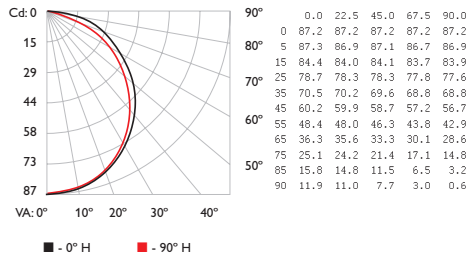
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%													
RC	80	70				50				30					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119119119119	116116116116	110110110	104104104	99	99	99	97							
1	107102 97 93	104 99 95 91	94 91 87	90 87 84	85	83	81	78							
2	97 88 81 75	94 86 79 74	82 76 71	78 73 69	74	70	67	64							
3	88 77 69 62	85 75 67 61	72 65 59	68 63 58	65	61	56	54							
4	81 68 59 52	78 67 58 52	64 56 50	61 54 49	58	53	48	46							
5	74 61 52 45	72 60 51 44	57 49 44	55 48 43	52	47	42	40							
6	69 55 46 39	66 54 45 39	51 44 38	49 43 37	47	41	37	35							
7	64 50 41 34	62 49 40 34	47 39 34	45 38 33	43	37	33	31							
8	59 45 37 31	57 44 36 30	43 35 30	41 35 30	40	34	29	27							
9	55 42 33 28	54 41 33 27	39 32 27	38 31 27	37	31	26	24							
10	52 38 30 25	50 38 30 25	36 29 25	35 29 24	34	28	24	22							

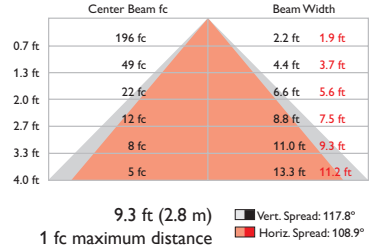
eW Cove QLX Powercore  
4000 K, 12 in (305 mm), wide beam

Lumens	273
Efficacy	48.7 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	68.0	24.9
0- 40	111.6	40.9
0- 60	197.9	72.5
0- 90	264.0	96.8
90-120	8.2	3.0
90-130	8.6	3.2
90-150	8.8	3.2
90-180	8.9	3.2
0-180	272.9	100.0

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%													
RC	80	70				50				30					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118118118118	115115115115	110110110	104104104	99	99	99	97							
1	107102 97 93	104 99 95 91	94 91 87	90 87 84	86	83	81	79							
2	97 88 81 75	94 86 79 73	82 76 71	78 73 69	74	71	67	65							
3	88 77 68 62	85 75 67 61	72 65 59	68 63 58	66	61	57	54							
4	80 68 59 52	78 66 58 51	64 56 50	61 54 49	58	53	48	46							
5	74 61 51 45	72 59 51 44	57 49 43	55 48 43	52	47	42	40							
6	68 55 45 39	66 53 45 38	51 44 38	49 43 37	47	41	37	35							
7	63 49 40 34	61 48 40 34	47 39 33	45 38 33	43	37	33	31							
8	59 45 36 30	57 44 36 30	43 35 30	41 34 30	40	34	29	27							
9	55 41 33 27	53 41 33 27	39 32 27	38 31 27	37	31	26	24							
10	51 38 30 25	50 37 30 25	36 29 24	35 29 24	34	28	24	22							

For lux multiply fc by 10.7

# Specifications

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

Item	Length	Beam Angle	2700 K*	3000 K*	3500 K*	4000 K*
Lumens†	6 in (152 mm)	Wide	103	108	109	134
	12 in (305 mm)	Wide	232	242	235	272
Efficacy (lm / W)	6 in (152 mm)	Wide	36.3	37.8	38.2	47.0
	12 in (305 mm)	Wide	45.4	42.5	42.7	48.7
CRI	6 in (152 mm)	Wide	82	82	85	83
	12 in (305 mm)	Wide	82	83	85	83
Power Factor	6 in (152 mm)	Wide	99.4	99.8	99.8	99.8
	12 in (305 mm)	Wide	99.1	99.2	99.1	99.2

Item	Specification	6 in (152 mm)	12 in (305 mm)
Output	Beam Angle	Wide (110° x 110°) / Medium (60° x 115°)	
	Lumen Maintenance‡	70,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 90,000 hours L50 @ 25° C 70,000 hours L50 @ 50° C	
Electrical	Input Voltage	100 / 120 / 220 – 240VAC, 50 / 60 Hz	
	Power Consumption	4.0 W maximum at full output, steady state 6.0 W maximum at full output, steady state	
Control	Dimming	Compatible with many commercially available ELV, trailing edge, or reverse-phase control dimmers§	
Physical	Dimensions (Height x Width x Depth)	1.25 x 6 x 1.4 in (32 x 152 x 35 mm)	1.25 x 12 x 1.4 in (32 x 305 x 35 mm)
	Weight	0.19 lbs (85 g)	0.31 lbs (142 g)
	Housing	Injection-molded plastic, white finish	
	Lens	Polycarbonate	
	Fixture Connections	Integral male / female connectors	
	Temperature Ranges	-4° – 122° F (-20° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Humidity	0 – 95%, non-condensing	
Certification and Safety	Maximum Fixture Run Length	105 @ 100VAC 115 @ 120VAC 165 @ 240VAC	85 @ 100VAC 93 @ 120VAC 134 @ 240VAC
	Certification	UL / cUL, FCC Class B, CE, SAA, C-Tick	
	Environment	Dry Location, IP20	
	Energy Efficiency	ENERGY STAR, California Title 24 Compliant	

\* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

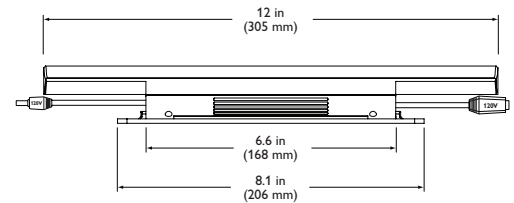
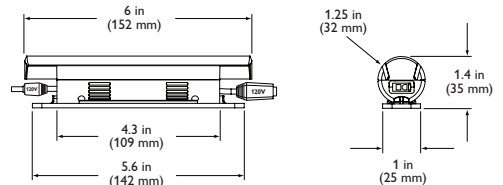
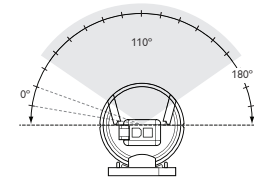


† Lumen measurement complies with IES LM-79-08 testing procedures.

‡ 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](http://www.colorkinetics.com/support/appnotes/lm-80-08.pdf) for more information.

§ Refer to [www.colorkinetics.com/support/appnotes/](http://www.colorkinetics.com/support/appnotes/) for specific details.

|| Assumes fixtures installed end-to-end on a 20 A circuit using the standard 10 ft (3 m) Leader Cable. These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the fixture run lengths.



\* To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from [www.colorkinetics.com/support/install\\_tool](http://www.colorkinetics.com/support/install_tool)

## Solid-color lumen output

Color	Length	Lumens
Red	12 in (305 mm)	165
Green	12 in (305 mm)	341
Blue	12 in (305 mm)	92
Amber	12 in (305 mm)	103

These measurements, performed by Philips Color Kinetics, are for reference only. Test procedures do not comply with LM-79-08.

**DIMAND**™ | **OPTIBIN**™ | **POWERCORE**™  
CKTECHNOLOGY | CKTECHNOLOGY | CKTECHNOLOGY



# Product Selection

To order eW Cove QLX Powercore, select a color temperature or color, a beam angle, and a length. Then select a line voltage connection option and any additional accessories you might need.

**1** Choose fixture color temperature and / or color

2700 K   3000 K   3500 K   4000 K

Red   Green   Blue   Amber

**2** Choose beam angle

Medium   Wide

50° x 130°   110° x 110°

**3** Choose length

12 in (305mm)

6 in (152 mm)

**4** Choose line voltage connection option

**Permanent Installations**

Leader cable

Wiring compartment, UL / cUL

**Portable Installations**

Leader cable

**5** Choose optional accessories

5 ft (1.5 m) Jumper cable

1 ft (305 mm) Jumper cable

Mounting track

## eW Cove QLX Powercore Fixtures

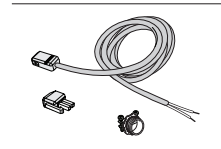
\* ENERGY STAR

		Wide Beam Angle (110° x 110°)				Medium Beam Angle (60° x 115°)			
		12 in (305 mm)		6 in (152 mm)		12 in (305 mm)		6 in (152 mm)	
		Item Number	Philips 12NC	Item Number	Philips 12NC	Item Number	Philips 12NC	Item Number	Philips 12NC
100 VAC	2700 K	523-000004-15	910503700628	523-000005-07	910503700636	523-000004-34	910503701146	523-000005-18	910503701162
	3000 K	523-000004-23	910503700999	523-000005-11	910503701008	523-000004-35	910503701147	523-000005-19	910503701163
	3500 K	523-000004-25	910503701002	523-000005-13	910503701010	523-000004-36	910503701148	523-000005-20	910503701164
	4000 K	523-000004-17	910503700630	523-000005-09	910503700638	523-000004-37	910503701149	523-000005-21	910503701165
	Red	223-000004-08	910503701033			223-000004-16	910503701134		
	Green	223-000004-09	910503701034			223-000004-17	910503701135		
	Blue	223-000004-10	910503701035			223-000004-18	910503701136		
	Amber	223-000004-11	910503701036			223-000004-19	910503701137		
120 VAC	2700 K	523-000004-14*	910503700627	523-000005-06	910503700635	523-000004-30	910503701142	523-000005-14	910503701158
	3000 K	523-000004-22*	910503700998	523-000005-10	910503701007	523-000004-31	910503701143	523-000005-15	910503701159
	3500 K	523-000004-24*	910503701001	523-000005-12	910503701009	523-000004-32	910503701144	523-000005-16	910503701160
	4000 K	523-000004-16	910503700629	523-000005-08	910503700637	523-000004-33	910503701145	523-000005-17	910503701161
	Red	223-000004-00	910503701025	223-000005-00	910503701037	223-000004-12	910503701130	223-000005-04	910503701205
	Green	223-000004-01	910503701026	223-000005-01	910503701038	223-000004-13	910503701131	223-000005-05	910503701206
	Blue	223-000004-02	910503701027	223-000005-02	910503701039	223-000004-14	910503701132	223-000005-06	910503701207
	Amber	223-000004-03	910503701028	223-000005-03	910503701040	223-000004-15	910503701133	223-000005-07	910503701208
220 – 240 VAC Fixture only	2700 K	523-000004-18	910503700631			523-000004-38	910503701150		
	3000 K	523-000004-26	910503701003			523-000004-39	910503701151		
	3500 K	523-000004-27	910503701004			523-000004-40	910503701152		
	4000 K	523-000004-19	910503700632			523-000004-41	910503701153		
	Red	223-000004-04	910503701029			223-000004-20	910503701138		
	Green	223-000004-05	910503701030			223-000004-21	910503701139		
	Blue	223-000004-06	910503701031			223-000004-22	910503701140		
	Amber	223-000004-07	910503701032			223-000004-23	910503701141		
220 – 240 VAC Fixture and 10 ft (3 m) CE Leader Cable with terminator and strain relief	2700 K	523-000004-20	910503700633			523-000004-42	910503701154		
	3000 K	523-000004-28	910503701005			523-000004-43	910503701155		
	3500 K	523-000004-29	910503701006			523-000004-44	910503701156		
	4000 K	523-000004-21	910503700634			523-000004-45	910503701157		

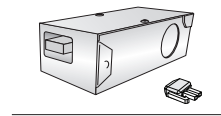
Use Item Number when ordering in North America.

# Accessories

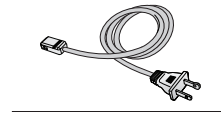
Item	Type	Size	Item Number	Philips 12NC
Leader Cable with terminator and strain relief	UL / cUL	10 ft (3 m)	108-000032-05	910503700893
	CE	10 ft (3 m)	108-000032-06	910503700894
Wiring Compartment with terminator	UL / cUL		120-000076-00	910503700597
Leader Cable with plug (black cable only)	UL / cUL	8 ft (2.4 m)	108-000032-03	910503700394
Jumper Cable	UL / cUL	1 ft (305 mm)	108-000033-06	910503700895
		5 ft (1.5 m)	108-000033-07	910503700896
	CE	1 ft (305 mm)	108-000033-08	910503700897
		5 ft (1.5 m)	108-000033-09	910503700898
Mounting Track, White Qty 1		4 ft (1219 mm)	120-000125-00	910503701788



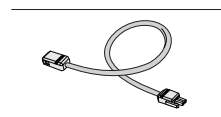
For connection to standard junction box



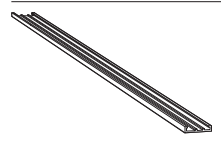
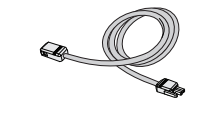
Can be used for direct connection to conduit



For portable installations

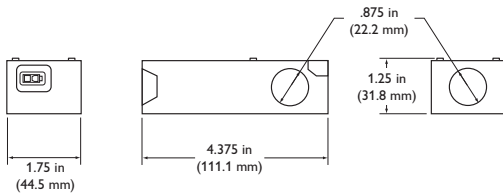


Depending on the installation's design, you may need jumper cables to add space between fixtures



Optional mounting track ensures straight runs of fixtures

## UL / cUL Wiring Compartment



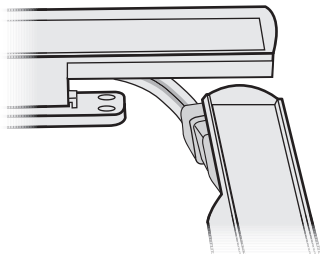
## Included in the box

eW Cove QLX Powercore fixture  
Installation Instructions

✳ Refer to the eW QLX Cove Powercore Installation Instructions for specific warning and caution statements.

## Easy turns

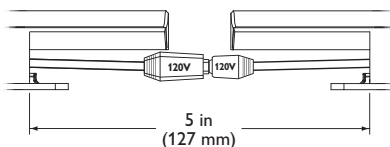
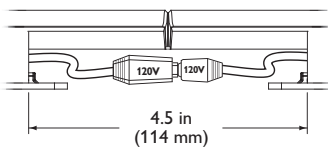
End-to-end locking power connectors can make turns of up to 180° without jumper cables.



✳ These diagrams provide general guidelines for positioning eW Cove QLX Powercore fixtures in coves with matte white surfaces. Specific dimensions and positioning depend on the details of your installation.

✳ Minimum cove height is mixing distance + height of fixture to LED board.

## Distance between fixtures



# Installation

eW Cove QLX Powercore offers high-output, energy-efficient indoor white and solid color alcove lighting with Powercore technology. Powercore, which delivers line voltage directly to the fixture, eases installation by eliminating the need for external power supplies or special wiring.

## Owner / User Responsibilities

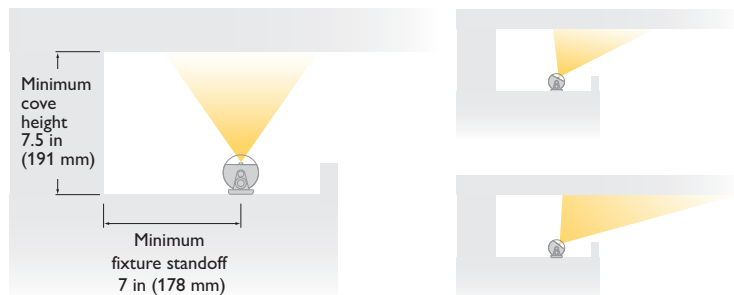
It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Cove QLX Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector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

## Create a Layout Plan

Regardless of the size and complexity of your installation, the time you spend up front can help minimize installation and configuration issues later. Keep these suggestions in mind as you plan your installation:

1. On an architectural diagram or other diagram that shows the physical layout of the installation, create a layout map that specifies the appropriate location of the light fixtures in relation to each other, and to any dimmer switches, wall switches, and line power sources. Identify any obstacles or physical features requiring flexible jumper cables between fixtures.
2. Using the fixture's power consumption and efficiency ratings, the lighting designer or architect should calculate the cove dimensions to ensure that operating temperatures remain within safe levels. The designer or architect should also determine the cove's fascia design and fixture setback based on the cove dimensions and room width. For consistent results, the cove width and height should accommodate the fixtures' minimum mixing distances. We strongly recommend creating dimensional models and mockups prior to installation.

### eW Cove QLX Powercore 110° Beam angle, 180° rotation



3. eW Cove QLX Powercore fixtures are installed in series. The in-line connectors allow end-to-end fixture connections for the best visual effects. Joined directly together, the connectors allow for up to 1 in (25 mm) spacing without a jumper cable. When you need more spacing between fixtures, use the 1 ft (305 mm) or 5 ft (1.5 m) jumper cables.
4. You can install a run of eW Cove QLX Powercore fixtures using the 10 ft (3 m) Leader Cable with flying leads. This option is preferable when connecting to a third-party junction box, or when retrofitting an existing incandescent or fluorescent cove lighting installation.

In North America, you can use the Wiring Compartment when you want to run branch conduit all the way to the first fixture in a series, or where local codes require it. You can also create a portable installation by using the 8 ft (2.4 m) Leader Cable with plug.

- If fixtures are installed end-to-end on a 20 A circuit using the standard 10 ft (3 m) Leader Cable, each run can accommodate up to 100 12 in (305 mm) fixtures, or up to 150 6 in (152 mm) fixtures. Using the optional jumper cables can decrease the number of fixtures that you can connect in a single run.

## Install Wall and Dimmer Switches (optional)

eW Cove QLX Powercore fixtures can be controlled either with a standard wall switch (on / off) or a compatible, commercially available electronic low-voltage (ELV) dimmer. eW Cove Powercore fixtures work with trailing edge (reverse phase) ELV dimmers.

For a list of compatible ELV dimmers, and for details on selecting the appropriate dimmer for your lighting installation, visit [www.colorkinetics.com/support/appnotes](http://www.colorkinetics.com/support/appnotes), or consult Application Engineering services at [support@colorkinetics.com](mailto:support@colorkinetics.com).

✳ To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from [www.colorkinetics.com/support/install\\_tool](http://www.colorkinetics.com/support/install_tool), or consult Philips Color Kinetics Application Engineering Services at [support@colorkinetics.com](mailto:support@colorkinetics.com).

✳ Refer to the installation instructions included with the wall or dimmer switch for installation and wiring information.

## Prepare for the Installation

- Verify that all supporting equipment (switches, line power sources) is in place.
- If your installation calls for jumper cables to add space between fixtures, make sure they are available.
- Ensure that all additional parts (optional mounting tracks, mounting hardware, terminators) and tools are available.

## Install the Fixtures

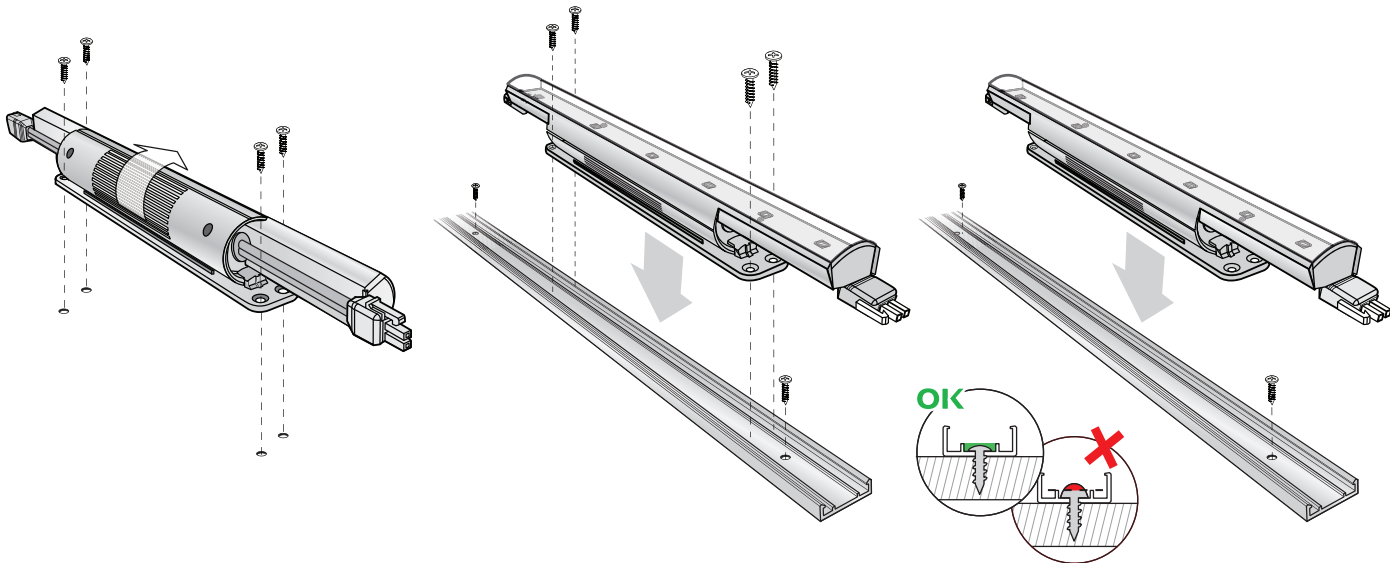
You can mount eW Cove QLX Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. You can install several eW Cove QLX Powercore fixtures in optional 4 ft (1.2 m) lengths of mounting track to ensure a straight run.

### (Optional) Install Mounting Tracks

- Field-cut the mounting tracks to the desired length with a hacksaw or tin snips.
- Install the mounting tracks using hardware suitable for the mounting surface.

To ensure proper fixture fit, hardware must not extend above the track standoffs after installation. The recommended maximum spacing between screws is 12 in (305 mm).

✳ You can use the fixture base as a template when pre-drilled pilot holes are required. Hold the fixture in place and mark the four screw holes.



### Mount and Connect the Fixtures

Make sure the power is OFF before mounting and connecting eW Cove QLX Powercore fixtures.

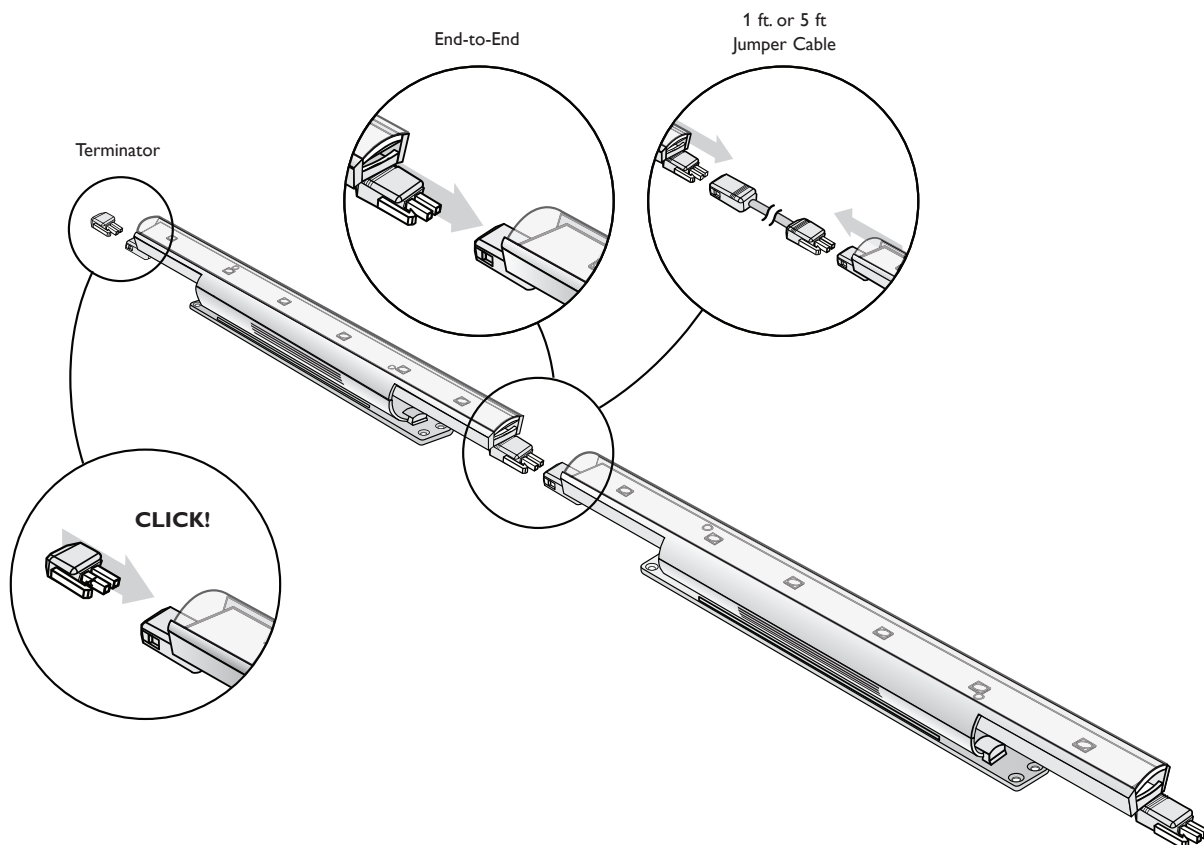
1. Rotate an eW Cove QLX Powercore fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

If using mounting tracks on a horizontal surface, snap the fixture into the track.

If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach the fixture with four #6 (3.5 mm) mounting screws (not included) suitable for the mounting surface.

Ensure that the male connector is in position to receive power from the female connector on the Leader Cable or Wiring Compartment.

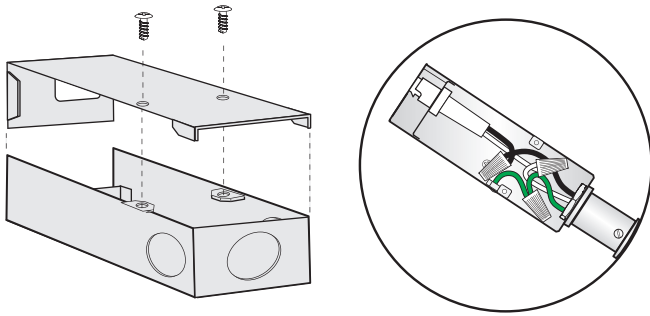
3. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. Attach the fixture to the surface or snap it into the track.



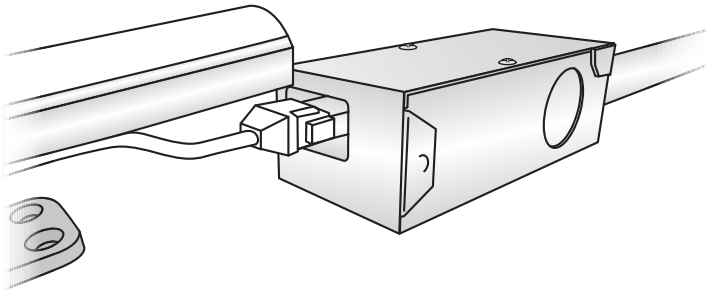
4. Continue mounting the fixtures, making power connections as you go, until all lights in the series are mounted.
5. Insert the provided terminator into the last fixture in the series.
6. Make power connections.

**To run power or conduit to the first fixture in a series (permanent, UL / cUL installations):**

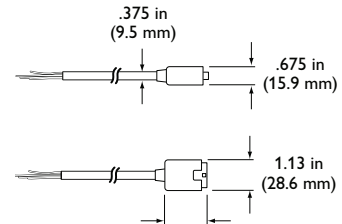
- Remove the cover from the eW Cove Powercore Wiring Compartment.
- Using wire nuts, connect ground, neutral, and line inside the Wiring Compartment housing, then replace the cover.



- Connect the eW Cove Powercore Wiring Compartment to the first fixture in the series.

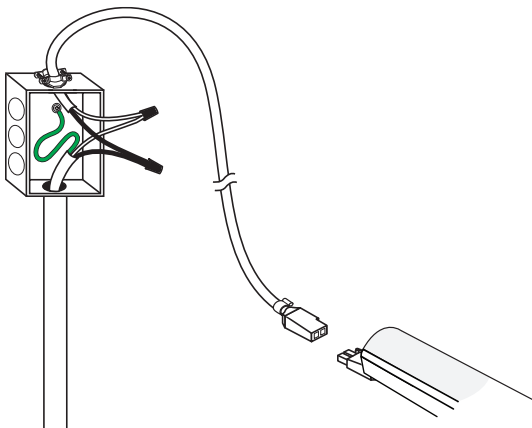


**Leader Cable connector dimensions**



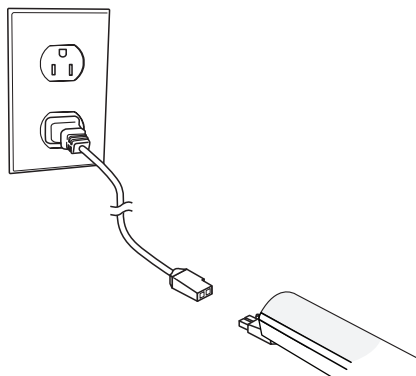
**To connect the first fixture in a series to a third-party junction box using the 10 ft (3 m) Leader Cable (permanent installation):**

- Remove the cover of the third-party junction box.
- Connect ground, neutral, and line inside the junction box housing, then replace the junction box cover.
- Connect the 10 ft (3 m) Leader Cable to the first fixture in the series.



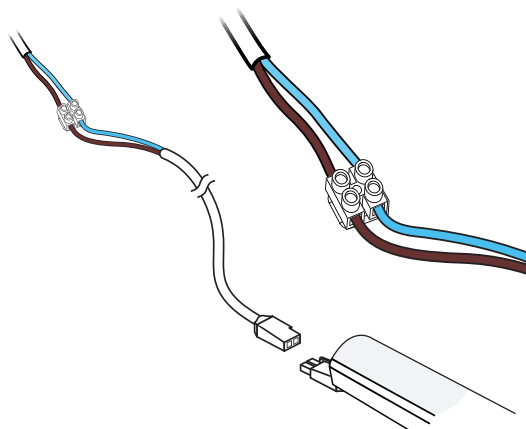
**For portable installations (UL / cUL):**

- Plug the 8 ft (2.4 m) Leader Cable into a suitable switched outlet.
- Connect the Leader Cable to the first fixture in the series.



**For CE installations:**

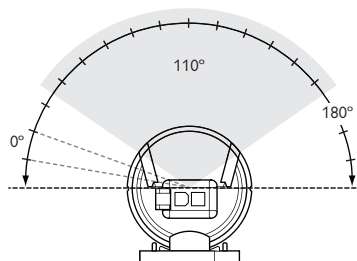
- Connect the Leader Cable to a terminal block. The terminal block must conform to EN 60998-2-1 or EN 60998-2-2, rated 220–240 VAC.
- Connect ground, neutral, and line to a power source.
- Connect the Leader Cable to the first fixture in the series.



## Aim the Fixtures

Make sure the power is ON before aiming fixtures. Do not look directly into beam.

Aim the fixtures by rotating each fixture to the correct angle. There are detents every 10° in the bracket that hold the fixture in position.





Philips Color Kinetics  
3 Burlington Woods Drive  
Burlington, Massachusetts 01803 USA  
Tel 888.385.5742  
Tel 617.423.9999  
Fax 617.423.9998  
[www.philipscolorkinetics.com](http://www.philipscolorkinetics.com)

Copyright © 2010 Philips Solid-State Lighting Solutions, Inc. All rights reserved.  
Chromacore, Chromasic, CK, the CK logo, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorBlaze, ColorBurst, ColorGraze, ColorPlay, ColorReach, iW Reach, eW Reach, eW Fuse, DIMand, EssentialWhite, eW, iColor, iColor Cove, IntelliWhite, iW, iPlayer, Optibin, and Powercore are either registered trademarks or trademarks of Philips Solid-State Lighting Solutions, Inc. in the United States and / or other countries. All other brand or product names are trademarks or registered trademarks of their respective owners. Due to continuous improvements and innovations, specifications may change without notice.

DAS-000068-00 R03 12-10