



# eW Cove EC Powercore

Cost-effective interior linear LED cove and accent fixture with solid white light

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## Cost-effective interior linear LED cove and accent fixture with solid white light

eW Cove EC Powercore is a dimmable, linear LED fixture that provides an affordable, energy-efficient alternative to traditional cove lighting in applications requiring white light. With its low profile, rotating housing and flexible end-to-end locking power connectors, eW Cove EC Powercore is the perfect choice for a wide range of interior retail, exhibit, hospitality, and architectural settings.

- Industry-best white-light quality and color consistency — Advances in Optibin, Philips proprietary binning optimization process, now provides color-consistency within a 2-step MacAdam ellipse across eW Cove product fixtures and manufacturing runs.
- Uncompromised performance — Efficacies of near 100 lumens/watts provide optimum output without restrictions on lumen maintenance, operating temperature, or warranty.
- Multiple options for design flexibility — Available in four color temperatures ranging from warm 2700 K to cool 4000 K, and lengths of 152 mm (6 in), 305 mm (12 in), and 1220 mm (48 in).
- Support for multiple voltages — eW Cove EC Powercore accepts power input of 120, 220–240, or 277 VAC for consistent installation and operation from line voltage in a variety of locations.
- Smooth Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.
- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for an external power supply. Contractor-friendly installation dramatically simplifies installation and lowers total system cost.
- Easy mounting and positioning — End-to-end locking power connectors make 180° turns, for easy positioning in even the most challenging mounting circumstances. Fixtures rotate in 10° increments through a full 180° for precise aiming and beam mixing. Optional mounting tracks support vertical and overhead positioning. 305 mm (12 in) and 1.5 m (60 in) jumper cables can add extra space between fixtures.
- Compact and flexible — eW Cove EC 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.



### Compact and Flexible

eW Cove EC 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.

# Warmth and Efficiency with eW Cove EC Powercore

eW Cove EC Powercore white-light LED fixtures offer a sustainable, low-maintenance alternative to linear incandescent or fluorescent systems.

## Cathedral of San Ildefonso

The Cathedral of San Ildefonso, a 416-year-old stone cathedral, had many concerns when updating its lighting system. As the center of Mérida, Yucatán, México, the church is a beacon within the area. When modernizing both the interior and exterior lighting system, many worried about the preservation of the building materials. Philips Color Kinetics LED fixtures do not emit infrared and ultraviolet rays which can deteriorate fragile exteriors like that of the grand Mexican cathedral.

Inside, where it was once dark and difficult to see, decorative details, sculptures, paintings, and pictures are now illuminated with eW Cove Powercore. The warm white light is appropriate for showcasing historical artifacts while balancing with the rest of the white light used in the cathedral. The symbol of religious and cultural significance now emits a warm glow and inviting light to loyal parishioners and tourists alike. Along with the benefits for aging structural material, LED lights also offer tremendous energy savings. The Cathedral of



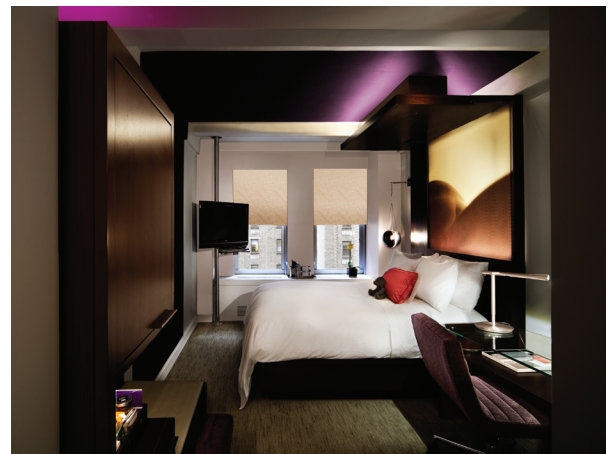
Photography: Hebert Camacho

San Ildefonso lowered its monthly electric bill by 78% just by making the switch to an LED lighting system.

## W Hotel New York

Manhattan's W New York luxury hotel offers guests a respite from the hectic pace of Manhattan life. The hotel performed renovations to transform its guest rooms, spa suites, and sophisticated Wow suites into relaxing, private sanctuaries.

To enhance the soothing, nature-inspired décor, New York-based architectural lighting designers G2J Design concealed over 3,000 linear feet of low-profile eW Cove Powercore white-light LED fixtures throughout the suites. Because of their energy-efficiency, minimal maintenance requirements, long useful source life, and cool beam of light, LED fixtures can be integrated into architectural details where conventional lighting fixtures cannot.



Photography: Frederick Charles

In the double-height suites, the designers concealed eW Cove Powercore fixtures behind the partition and wall art panels. During the day, the panels appear as art objects, while at night they become light boxes that softly illuminate the space. The designers also concealed eW Cove Powercore fixtures above the bed canopies, within the graphic acrylic art panels above the headboards, above the minibar to provide task lighting, and within the window pockets to highlight the curtains and fill the room with soft ambient light.





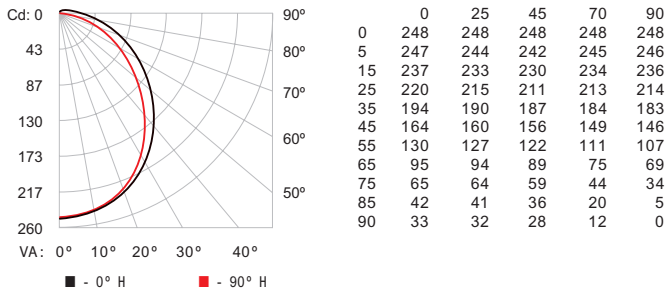
# Photometrics / eW Cove EC Powercore, 2700 K

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

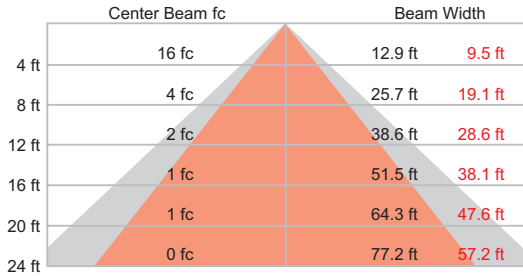
1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
765	81.2 lm /W

## Polar Candela Distribution



## Illuminance at Distance



15.8 ft (4.8 m)    ■ Vert. Spread: 116.3°  
 1 fc maximum distance    ■ Horiz. Spread: 100.0°

## 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	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20
RCR:	0	1.18	1.18	1.18	1.14	1.14	1.14	0.94	1.08	1.08	1.08	1.02	1.02	1.02	0.97	0.97	0.97	0.94	0.97	0.97	0.97	0.94	
	1	1.06	1.01	0.96	0.92	1.03	0.98	0.94	0.77	0.93	0.89	0.86	0.88	0.85	0.82	0.83	0.81	0.79	0.76	0.83	0.81	0.79	0.76
	2	0.96	0.87	0.80	0.74	0.93	0.85	0.78	0.64	0.81	0.75	0.70	0.76	0.72	0.68	0.73	0.69	0.65	0.63	0.73	0.69	0.65	0.63
	3	0.88	0.77	0.68	0.61	0.85	0.75	0.67	0.54	0.71	0.64	0.59	0.67	0.62	0.57	0.64	0.59	0.55	0.53	0.64	0.59	0.55	0.53
	4	0.80	0.68	0.59	0.52	0.77	0.66	0.58	0.47	0.63	0.56	0.50	0.60	0.54	0.49	0.57	0.52	0.47	0.45	0.57	0.52	0.47	0.45
	5	0.74	0.61	0.51	0.45	0.71	0.59	0.51	0.41	0.56	0.49	0.43	0.54	0.47	0.42	0.51	0.46	0.41	0.39	0.51	0.46	0.41	0.39
	6	0.68	0.55	0.45	0.39	0.66	0.53	0.45	0.36	0.51	0.43	0.38	0.49	0.42	0.37	0.47	0.41	0.36	0.34	0.47	0.41	0.36	0.34
	7	0.63	0.49	0.41	0.34	0.61	0.48	0.40	0.32	0.46	0.39	0.33	0.44	0.38	0.33	0.43	0.37	0.32	0.30	0.43	0.37	0.32	0.30
	8	0.59	0.45	0.37	0.31	0.57	0.44	0.36	0.29	0.42	0.35	0.30	0.41	0.34	0.29	0.39	0.33	0.29	0.27	0.39	0.33	0.29	0.27
	9	0.55	0.41	0.33	0.28	0.53	0.41	0.33	0.26	0.39	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.24	0.36	0.30	0.26	0.24
	10	0.51	0.38	0.30	0.25	0.50	0.37	0.30	0.23	0.36	0.29	0.24	0.35	0.28	0.24	0.34	0.28	0.24	0.22	0.34	0.28	0.24	0.22

## Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	190.5	24.9
0- 40	309.6	40.5
0- 60	540.3	70.6
0- 90	722.6	94.4
60- 90	182.3	23.8
70-100	115.8	15.1
90-120	37.4	4.9
90-180	42.6	5.6
0-180	765.2	100.0

For lux multiply fc by 10.7

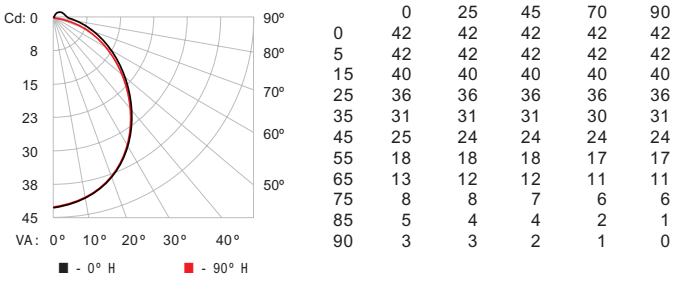
# Photometrics / eW Cove EC Powercore, 3000 K

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

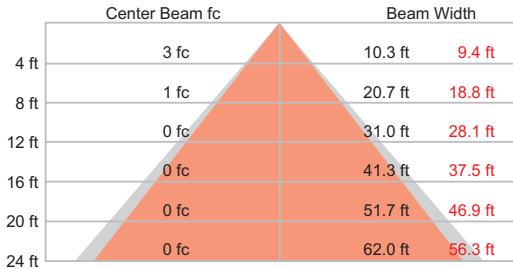
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
121	71.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



6.5 ft (2 m) ■ Vert. Spread: 104.5°  
 1 fc maximum distance ■ Horiz. Spread: 99.1°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																	
RW %:	80			70			50			30			10			0		
RCC %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
0	1.17	1.17	1.17	1.17	1.14	1.14	1.14	0.92	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.92
1	1.07	1.02	0.97	0.93	1.03	0.99	0.95	0.77	0.93	0.90	0.87	0.88	0.85	0.83	0.83	0.81	0.79	0.76
2	0.97	0.89	0.82	0.76	0.94	0.86	0.80	0.65	0.81	0.76	0.72	0.77	0.73	0.69	0.73	0.69	0.66	0.64
3	0.89	0.78	0.70	0.64	0.85	0.76	0.68	0.56	0.72	0.66	0.60	0.68	0.63	0.58	0.65	0.60	0.56	0.54
4	0.81	0.69	0.61	0.54	0.78	0.68	0.59	0.48	0.64	0.57	0.52	0.61	0.55	0.50	0.58	0.53	0.49	0.46
5	0.75	0.62	0.53	0.47	0.72	0.61	0.52	0.42	0.58	0.50	0.45	0.55	0.49	0.44	0.52	0.47	0.43	0.40
6	0.69	0.56	0.47	0.41	0.67	0.55	0.46	0.37	0.52	0.45	0.39	0.50	0.43	0.38	0.47	0.42	0.38	0.35
7	0.64	0.51	0.42	0.36	0.62	0.50	0.42	0.33	0.47	0.40	0.35	0.45	0.39	0.34	0.43	0.38	0.33	0.31
8	0.60	0.46	0.38	0.32	0.58	0.45	0.37	0.30	0.43	0.36	0.31	0.42	0.35	0.31	0.40	0.34	0.30	0.28
9	0.56	0.43	0.35	0.29	0.54	0.42	0.34	0.27	0.40	0.33	0.28	0.38	0.32	0.28	0.37	0.31	0.27	0.25
10	0.52	0.39	0.32	0.26	0.51	0.39	0.31	0.25	0.37	0.30	0.26	0.36	0.30	0.25	0.34	0.29	0.25	0.23

### Zonal Lumen

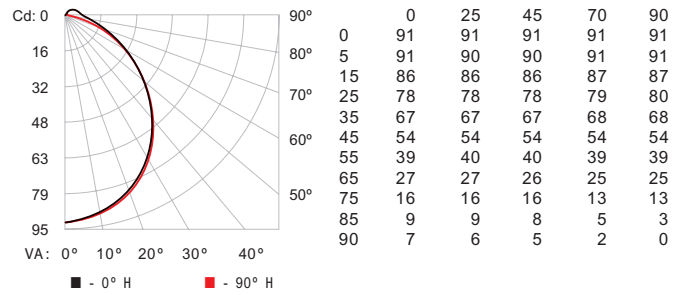
ZONE	LUMENS	%FIXT
0- 30	32.1	26.5
0- 40	51.7	42.7
0- 60	87.6	72.4
0- 90	111.8	92.4
60- 90	24.2	20.0
70-100	14.2	11.7
90-120	6.0	5.0
90-180	9.1	7.6
0-180	121.0	100.0

For lux multiply fc by 10.7

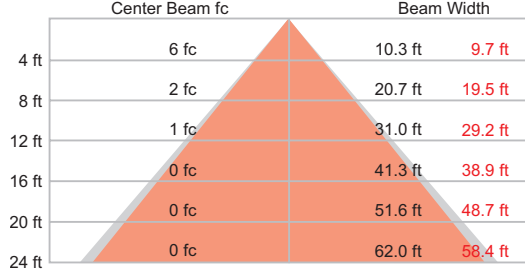
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
263	85.5 lm / W

### Polar Candela Distribution



### Illuminance at Distance



9.6 ft (2.9 m) ■ Vert. Spread: 104.5°  
 1 fc maximum distance ■ Horiz. Spread: 101.2°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																	
RW %:	80			70			50			30			10			0		
RCC %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
0	1.17	1.17	1.17	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.93
1	1.07	1.02	0.97	0.94	1.03	0.99	0.95	0.78	0.93	0.90	0.87	0.88	0.86	0.83	0.83	0.81	0.79	0.77
2	0.97	0.89	0.82	0.76	0.94	0.86	0.80	0.65	0.82	0.76	0.72	0.77	0.73	0.69	0.73	0.70	0.67	0.64
3	0.89	0.78	0.70	0.64	0.85	0.76	0.69	0.56	0.72	0.66	0.61	0.68	0.63	0.59	0.65	0.61	0.57	0.54
4	0.81	0.69	0.61	0.54	0.78	0.68	0.60	0.48	0.64	0.57	0.52	0.61	0.55	0.50	0.58	0.53	0.49	0.47
5	0.75	0.62	0.53	0.47	0.72	0.61	0.52	0.42	0.58	0.51	0.45	0.55	0.49	0.44	0.52	0.47	0.43	0.40
6	0.69	0.56	0.47	0.41	0.67	0.55	0.46	0.37	0.52	0.45	0.40	0.50	0.43	0.39	0.48	0.42	0.38	0.36
7	0.64	0.51	0.42	0.36	0.62	0.50	0.42	0.33	0.48	0.40	0.35	0.45	0.39	0.34	0.44	0.38	0.34	0.32
8	0.60	0.46	0.38	0.32	0.58	0.45	0.38	0.30	0.44	0.36	0.31	0.42	0.35	0.31	0.40	0.34	0.30	0.28
9	0.56	0.43	0.35	0.29	0.54	0.42	0.34	0.27	0.40	0.33	0.28	0.39	0.32	0.28	0.37	0.31	0.27	0.25
10	0.52	0.39	0.32	0.26	0.51	0.39	0.31	0.25	0.37	0.30	0.26	0.36	0.30	0.25	0.34	0.29	0.25	0.23

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	69.7	26.5
0- 40	112.5	42.9
0- 60	191.5	72.9
0- 90	243.5	92.8
60- 90	52.0	19.8
70-100	30.0	11.4
90-120	12.5	4.8
90-180	19.0	7.2
0-180	262.5	100.0

For lux multiply fc by 10.7

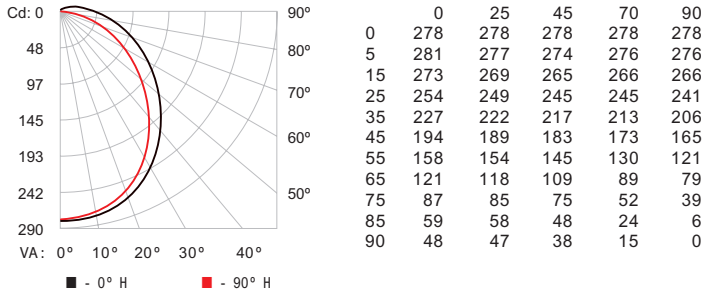
# Photometrics / eW Cove EC Powercore, 3000 K

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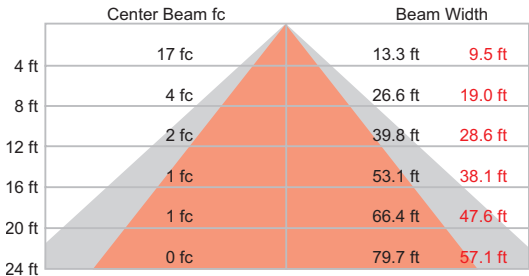
1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
877	91.1 lm / W

## Polar Candela Distribution



## Illuminance at Distance



16.7 ft (5 m)    ■ Vert. Spread: 117.9°  
 1 fc maximum distance    ■ Horiz. Spread: 99.9°

## Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80	70	50	30	10	0													
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0	
RCR:	0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.94	1.08	1.08	1.08	1.02	1.02	1.02	0.96	0.96	0.96	0.94
	1	1.06	1.01	0.96	0.91	1.02	0.98	0.93	0.76	0.92	0.89	0.85	0.87	0.84	0.82	0.83	0.80	0.78	0.75
	2	0.96	0.87	0.80	0.74	0.93	0.85	0.78	0.63	0.80	0.74	0.70	0.76	0.71	0.67	0.72	0.68	0.65	0.62
	3	0.87	0.76	0.68	0.61	0.84	0.74	0.66	0.54	0.70	0.64	0.58	0.67	0.61	0.56	0.63	0.59	0.54	0.52
	4	0.80	0.67	0.58	0.51	0.77	0.66	0.57	0.46	0.62	0.55	0.49	0.59	0.53	0.48	0.56	0.51	0.47	0.44
	5	0.73	0.60	0.51	0.44	0.71	0.59	0.50	0.40	0.56	0.48	0.43	0.53	0.47	0.42	0.51	0.45	0.41	0.38
	6	0.68	0.54	0.45	0.38	0.65	0.53	0.44	0.35	0.50	0.43	0.37	0.48	0.41	0.36	0.46	0.40	0.36	0.33
	7	0.63	0.49	0.40	0.34	0.61	0.48	0.40	0.31	0.46	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.29
	8	0.58	0.45	0.36	0.30	0.56	0.44	0.36	0.28	0.42	0.35	0.29	0.40	0.34	0.29	0.39	0.33	0.28	0.26
	9	0.55	0.41	0.33	0.27	0.53	0.40	0.32	0.25	0.39	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24
	10	0.51	0.38	0.30	0.25	0.50	0.37	0.30	0.23	0.36	0.29	0.24	0.34	0.28	0.24	0.33	0.27	0.23	0.21

## Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	213.6	24.4
0- 40	347.5	39.6
0- 60	608.9	69.4
0- 90	821.9	93.7
60- 90	213.0	24.3
70-100	138.4	15.8
90-120	47.5	5.4
90-180	54.9	6.3
0-180	876.8	100.0

For lux multiply fc by 10.7

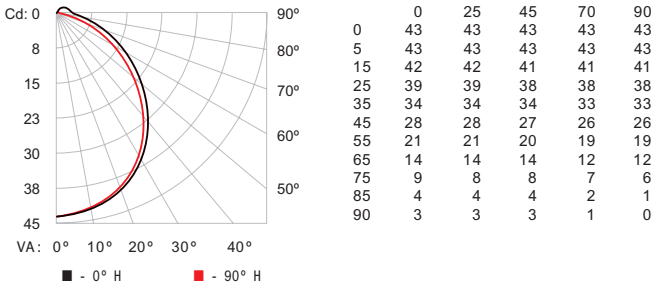
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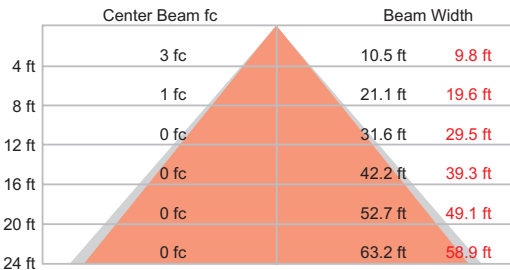
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
124	72.5 lm / W

### Polar Candela Distribution



### Illuminance at Distance



6.6 ft (2 m) Vert. Spread: 105.6°  
 1 fc maximum distance Horiz. Spread: 101.7°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%														
RW %:	80	70	50	30	10	0	80	70	50	30	10	0			
RCR:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0
0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.94	1.08	1.08	1.08	1.02	1.02	1.02	0.96
1	1.07	1.02	0.98	0.94	1.04	0.99	0.95	0.79	0.94	0.91	0.88	0.89	0.86	0.84	0.84
2	0.97	0.89	0.83	0.77	0.94	0.87	0.81	0.66	0.82	0.77	0.73	0.78	0.74	0.70	0.74
3	0.89	0.79	0.71	0.64	0.86	0.77	0.69	0.57	0.73	0.66	0.61	0.69	0.64	0.59	0.66
4	0.82	0.70	0.61	0.55	0.79	0.68	0.60	0.49	0.65	0.58	0.52	0.62	0.56	0.51	0.59
5	0.75	0.63	0.54	0.47	0.73	0.61	0.53	0.43	0.58	0.51	0.45	0.56	0.49	0.44	0.53
6	0.69	0.56	0.48	0.41	0.67	0.55	0.47	0.38	0.53	0.45	0.40	0.50	0.44	0.39	0.48
7	0.64	0.51	0.43	0.36	0.62	0.50	0.42	0.34	0.48	0.41	0.35	0.46	0.40	0.35	0.44
8	0.60	0.47	0.38	0.33	0.58	0.46	0.38	0.30	0.44	0.37	0.32	0.42	0.36	0.31	0.41
9	0.56	0.43	0.35	0.29	0.54	0.42	0.34	0.27	0.40	0.33	0.29	0.39	0.33	0.28	0.37
10	0.53	0.40	0.32	0.27	0.51	0.39	0.31	0.25	0.37	0.31	0.26	0.36	0.30	0.26	0.35

### Zonal Lumen

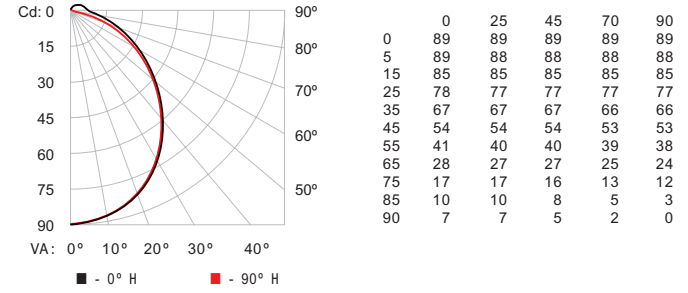
ZONE	LUMENS	%FIXT
0- 30	33.3	26.9
0- 40	53.9	43.5
0- 60	91.9	74.2
0- 90	115.9	93.5
60- 90	24.0	19.3
70-100	13.4	10.8
90-120	5.3	4.3
90-180	8.0	6.5
0-180	123.9	100.0

For lux multiply fc by 10.7

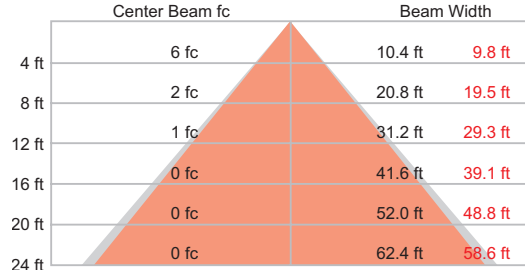
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
257	84.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



9.5 ft (2.9 m) Vert. Spread: 104.8°  
 1 fc maximum distance Horiz. Spread: 101.3°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%														
RW %:	80	70	50	30	10	0	80	70	50	30	10	0			
RCR:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0
0	1.17	1.17	1.17	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.95
1	1.07	1.02	0.97	0.94	1.03	0.99	0.95	0.78	0.93	0.90	0.87	0.88	0.86	0.83	0.83
2	0.97	0.89	0.82	0.76	0.94	0.86	0.80	0.65	0.82	0.76	0.72	0.77	0.73	0.69	0.73
3	0.89	0.78	0.70	0.64	0.86	0.76	0.69	0.56	0.72	0.66	0.61	0.68	0.63	0.59	0.65
4	0.81	0.69	0.61	0.54	0.78	0.68	0.60	0.48	0.64	0.57	0.52	0.61	0.55	0.50	0.58
5	0.75	0.62	0.53	0.47	0.72	0.61	0.52	0.42	0.58	0.50	0.45	0.55	0.49	0.44	0.52
6	0.69	0.56	0.47	0.41	0.67	0.55	0.46	0.37	0.52	0.45	0.39	0.50	0.43	0.39	0.48
7	0.64	0.51	0.42	0.36	0.62	0.50	0.42	0.33	0.48	0.40	0.35	0.45	0.39	0.34	0.44
8	0.60	0.46	0.38	0.32	0.58	0.45	0.38	0.30	0.44	0.36	0.31	0.42	0.35	0.31	0.40
9	0.56	0.43	0.35	0.29	0.54	0.42	0.34	0.27	0.40	0.33	0.28	0.39	0.32	0.28	0.37
10	0.52	0.39	0.32	0.26	0.51	0.39	0.31	0.25	0.37	0.30	0.26	0.36	0.30	0.25	0.34

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	68.0	26.5
0- 40	109.9	42.8
0- 60	187.2	72.9
0- 90	238.1	92.7
60- 90	50.9	19.8
70-100	29.4	11.4
90-120	12.2	4.8
90-180	18.6	7.3
0-180	256.7	100.0

For lux multiply fc by 10.7

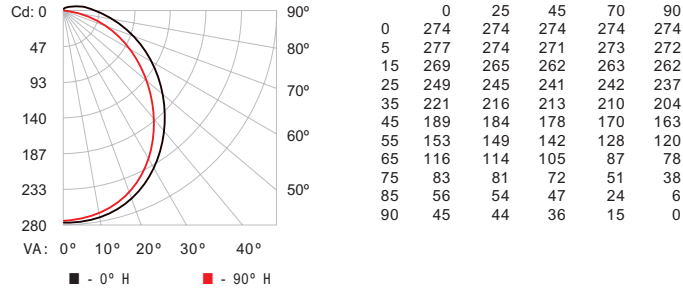
# Photometrics / eW Cove EC Powercore, 3500 K

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

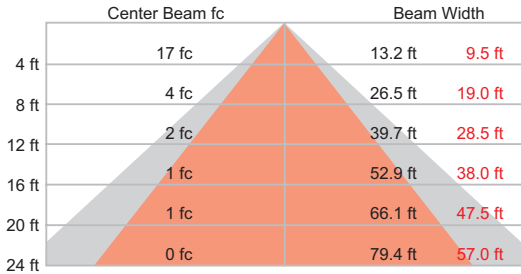
1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
860	90.0 lm / W

## Polar Candela Distribution



## Illuminance at Distance



16.6 ft (5 m)    ■ Vert. Spread: 117.7°  
 1 fc maximum distance    ■ Horiz. Spread: 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	50	30	20	50	30	20	50	30	20	0					
RCR:	0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.94	1.08	1.08	1.08	1.02	1.02	1.02	0.96	0.96	0.96	0.94
	1	1.06	1.01	0.96	0.91	1.03	0.98	0.93	0.77	0.92	0.89	0.85	0.87	0.84	0.82	0.83	0.80	0.78	0.76
	2	0.96	0.87	0.80	0.74	0.93	0.85	0.78	0.64	0.80	0.75	0.70	0.76	0.71	0.67	0.72	0.68	0.65	0.62
	3	0.87	0.76	0.68	0.61	0.84	0.74	0.66	0.54	0.70	0.64	0.58	0.67	0.61	0.56	0.63	0.59	0.55	0.52
	4	0.80	0.67	0.58	0.51	0.77	0.66	0.57	0.46	0.62	0.55	0.49	0.59	0.53	0.48	0.56	0.51	0.47	0.44
	5	0.73	0.60	0.51	0.44	0.71	0.59	0.50	0.40	0.56	0.48	0.43	0.53	0.47	0.42	0.51	0.45	0.41	0.38
	6	0.68	0.54	0.45	0.39	0.65	0.53	0.44	0.35	0.50	0.43	0.37	0.48	0.42	0.37	0.46	0.40	0.36	0.33
	7	0.63	0.49	0.40	0.34	0.61	0.48	0.40	0.31	0.46	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.30
	8	0.58	0.45	0.36	0.30	0.57	0.44	0.36	0.28	0.42	0.35	0.29	0.40	0.34	0.29	0.39	0.33	0.28	0.26
	9	0.55	0.41	0.33	0.27	0.53	0.40	0.32	0.25	0.39	0.32	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24
	10	0.51	0.38	0.30	0.25	0.50	0.37	0.30	0.23	0.36	0.29	0.24	0.34	0.28	0.24	0.33	0.27	0.23	0.22

## Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	210.5	24.5
0- 40	342.3	39.8
0- 60	599.4	69.7
0- 90	807.6	93.9
60- 90	208.2	24.2
70-100	134.5	15.6
90-120	45.5	5.3
90-180	52.5	6.1
0-180	860.0	100.0

For lux multiply fc by 10.7



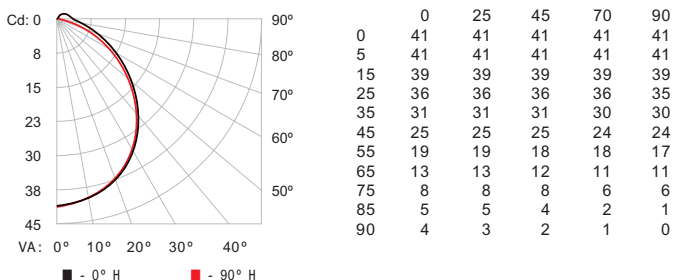
# Photometrics / eW Cove EC Powercore, 4000 K

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

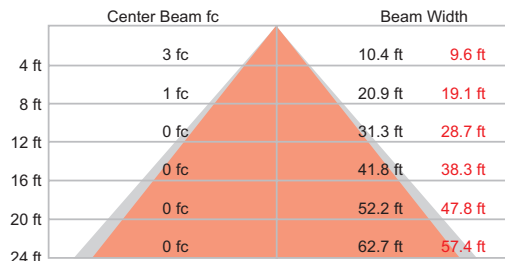
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
117	68.9 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### 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	50	30	20	50	30	20	50	30	20	0
RCR:	0	1.17	1.17	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.93
1	1.07	1.02	0.97	0.93	1.03	0.99	0.95	0.78	0.93	0.90	0.87	0.88	0.85	0.83	0.83	0.81	0.79	0.77
2	0.97	0.89	0.82	0.76	0.94	0.86	0.80	0.65	0.82	0.76	0.72	0.77	0.73	0.69	0.73	0.70	0.67	0.64
3	0.89	0.78	0.70	0.64	0.86	0.76	0.69	0.56	0.72	0.66	0.61	0.68	0.63	0.59	0.65	0.60	0.57	0.54
4	0.81	0.69	0.61	0.54	0.78	0.68	0.60	0.48	0.64	0.57	0.52	0.61	0.55	0.50	0.58	0.53	0.49	0.46
5	0.75	0.62	0.53	0.47	0.72	0.61	0.52	0.42	0.58	0.50	0.45	0.55	0.49	0.44	0.52	0.47	0.43	0.40
6	0.69	0.56	0.47	0.41	0.67	0.55	0.46	0.37	0.52	0.45	0.39	0.50	0.43	0.39	0.48	0.42	0.38	0.35
7	0.64	0.51	0.42	0.36	0.62	0.50	0.42	0.33	0.48	0.40	0.35	0.45	0.39	0.34	0.44	0.38	0.34	0.31
8	0.60	0.46	0.38	0.32	0.58	0.45	0.38	0.30	0.44	0.36	0.31	0.42	0.35	0.31	0.40	0.34	0.30	0.28
9	0.56	0.43	0.35	0.29	0.54	0.42	0.34	0.27	0.40	0.33	0.28	0.39	0.32	0.28	0.37	0.31	0.27	0.25
10	0.52	0.39	0.32	0.26	0.51	0.39	0.31	0.25	0.37	0.30	0.26	0.36	0.30	0.25	0.34	0.29	0.25	0.23

### Zonal Lumen

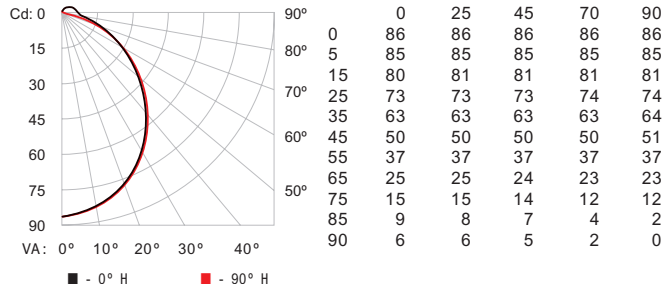
ZONE	LUMENS	%FIXT
0- 30	31.1	26.6
0- 40	50.2	42.8
0- 60	85.2	72.7
0- 90	108.6	92.6
60- 90	23.3	19.9
70-100	13.6	11.6
90-120	5.7	4.9
90-180	8.6	7.4
0-180	117.2	100.0

For lux multiply fc by 10.7

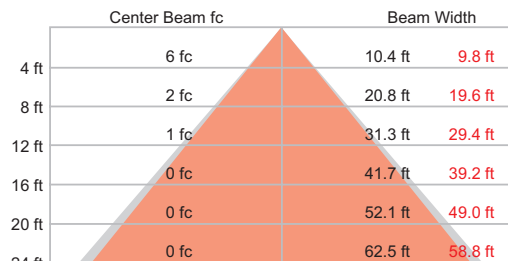
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
247	81.6 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### 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	50	30	20	50	30	20	50	30	20	0
RCR:	0	1.17	1.17	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.93
1	1.07	1.02	0.97	0.93	1.03	0.99	0.95	0.78	0.93	0.90	0.87	0.88	0.86	0.83	0.83	0.81	0.79	0.77
2	0.97	0.89	0.82	0.76	0.94	0.86	0.80	0.65	0.82	0.76	0.72	0.77	0.73	0.69	0.73	0.70	0.67	0.64
3	0.89	0.78	0.70	0.64	0.86	0.76	0.69	0.56	0.72	0.66	0.61	0.68	0.63	0.59	0.65	0.60	0.57	0.54
4	0.81	0.69	0.61	0.54	0.78	0.68	0.60	0.48	0.64	0.57	0.52	0.61	0.55	0.50	0.58	0.53	0.49	0.47
5	0.75	0.62	0.53	0.47	0.72	0.61	0.52	0.42	0.58	0.50	0.45	0.55	0.49	0.44	0.52	0.47	0.43	0.40
6	0.69	0.56	0.47	0.41	0.67	0.55	0.46	0.37	0.52	0.45	0.39	0.50	0.43	0.39	0.48	0.42	0.38	0.35
7	0.64	0.51	0.42	0.36	0.62	0.50	0.42	0.33	0.47	0.40	0.35	0.45	0.39	0.34	0.43	0.38	0.34	0.31
8	0.60	0.46	0.38	0.32	0.58	0.45	0.37	0.30	0.43	0.36	0.31	0.42	0.35	0.31	0.40	0.34	0.30	0.28
9	0.56	0.43	0.35	0.29	0.54	0.42	0.34	0.27	0.40	0.33	0.28	0.38	0.32	0.28	0.37	0.31	0.27	0.25
10	0.52	0.39	0.32	0.26	0.51	0.39	0.31	0.25	0.37	0.30	0.26	0.36	0.30	0.25	0.34	0.29	0.25	0.23

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	65.4	26.5
0- 40	105.7	42.7
0- 60	180.1	72.9
0- 90	229.2	92.7
60- 90	49.1	19.9
70-100	28.3	11.5
90-120	11.8	4.8
90-180	18.0	7.3
0-180	247.2	100.0

For lux multiply fc by 10.7

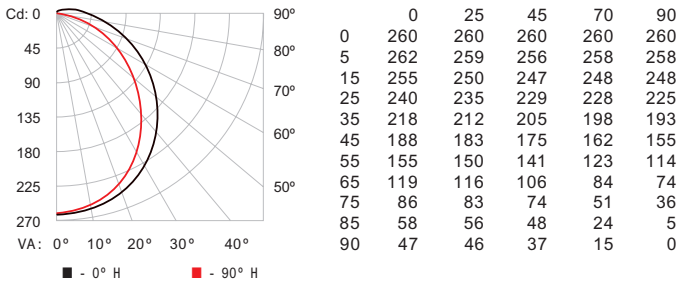
# Photometrics / eW Cove EC Powercore, 4000 K

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

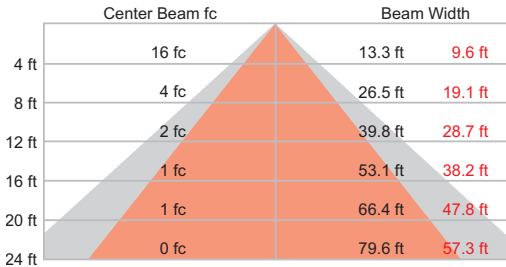
1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
819	88.3 lm / W

## Polar Candela Distribution



## Illuminance at Distance



16.1 ft (4.9 m)    ■ Vert. Spread: 117.8°  
 1 fc maximum distance    ■ Horiz. Spread: 100.1°

## 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	50	30	20	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR:	0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.94	1.08	1.08	1.08	1.02	1.02	1.02	0.96	0.96	0.96	0.94	0.94	0.94	0.94	0.94	
	1	1.06	1.01	0.96	0.91	1.02	0.98	0.93	0.76	0.92	0.89	0.85	0.87	0.84	0.82	0.83	0.80	0.78	0.76	0.76	0.76	0.76	0.76	
	2	0.96	0.87	0.80	0.74	0.93	0.85	0.78	0.64	0.80	0.74	0.70	0.76	0.71	0.67	0.72	0.68	0.65	0.62	0.62	0.62	0.62	0.62	
	3	0.87	0.76	0.68	0.61	0.84	0.74	0.66	0.54	0.70	0.64	0.58	0.67	0.61	0.56	0.63	0.59	0.55	0.52	0.52	0.52	0.52	0.52	
	4	0.80	0.67	0.58	0.51	0.77	0.66	0.57	0.46	0.62	0.55	0.49	0.59	0.53	0.48	0.56	0.51	0.47	0.44	0.44	0.44	0.44	0.44	
	5	0.73	0.60	0.51	0.44	0.71	0.59	0.50	0.40	0.56	0.48	0.43	0.53	0.47	0.42	0.51	0.45	0.41	0.38	0.38	0.38	0.38	0.38	
	6	0.68	0.54	0.45	0.39	0.65	0.53	0.44	0.35	0.50	0.43	0.37	0.48	0.41	0.36	0.46	0.40	0.36	0.33	0.33	0.33	0.33	0.33	
	7	0.63	0.49	0.40	0.34	0.61	0.48	0.40	0.31	0.46	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.30	0.30	0.30	0.30	0.30	
	8	0.58	0.45	0.36	0.30	0.57	0.44	0.36	0.28	0.42	0.35	0.29	0.40	0.34	0.29	0.39	0.33	0.28	0.26	0.26	0.26	0.26	0.26	
	9	0.55	0.41	0.33	0.27	0.53	0.40	0.32	0.25	0.39	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24	0.24	0.24	0.24	0.24	
	10	0.51	0.38	0.30	0.25	0.50	0.37	0.30	0.23	0.36	0.29	0.24	0.34	0.28	0.24	0.33	0.27	0.23	0.21	0.21	0.21	0.21	0.21	

## Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	199.9	24.4
0- 40	325.0	39.7
0- 60	569.3	69.5
0- 90	768.3	93.8
60- 90	199.0	24.3
70-100	129.3	15.8
90-120	44.2	5.4
90-180	50.8	6.2
0-180	819.1	100.0

For lux multiply fc by 10.7

# Specifications, 2700 K\*

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

Item	Specification	152 mm (6 in)			305 mm (12 in)			1220 mm (48 in)		
Output	Lumens†	111			228			765		
	Efficacy (lm / W)	64.0			74.4			81.2		
	CRI	83			83			83		
Electrical	Input Voltage	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC
	Power Consumption	1.8 W	2.3 W	2.3 W	3.2 W	3.3 W	3.4 W	10.0 W	10.0 W	10.0 W
	Power Factor (@ 120 VAC)	.98			.97			.96		
Control	Dimming	Compatible with selected with selected commercially available reverse-phase ELV-type dimmers‡								
Physical	Dimensions <i>Height x Length x Width</i>	35 x 152 x 32 mm (1.37 x 6.0 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12.0 x 1.25 in)			47x 1218 x 38 mm (1.90 x 48.0 x 1.5 in)		
	Weight	103 g (0.23 lbs)			166 g (0.37 lbs)			880 g (1.94 lbs)		
	Housing	Injection-molded plastic, dark-gray finish								
	Lens	Clear 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								
Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>									
Certification and Safety	Certification	UL, CE, FCC, SAA, C-Tick, CCC								
	Environment	Damp Location, IP20								

Item	Specification	152 mm (6 in)			305 mm (12 in)			1220 mm (48 in)		
Output	Lumens†	121			263			877		
	Efficacy (lm / W)	71.2			85.5			91.1		
	CRI	83			82			82		
Electrical	Input Voltage	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC
	Power Consumption	1.8 W	2.3 W	2.3 W	3.2 W	3.3 W	3.4 W	10.0 W	10.0 W	10.0 W
	Power Factor (@ 120 VAC)	.98			.97			.96		
Control	Dimming	Compatible with selected with selected commercially available reverse-phase ELV-type dimmers‡								
Physical	Dimensions <i>Height x Length x Width</i>	35 x 152 x 32 mm (1.37 x 6.0 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12.0 x 1.25 in)			47 x 1218 x 38 mm (1.90 x 48.0 x 1.5 in)		
	Weight	103 g (0.23 lbs)			166 g (0.37 lbs)			880 g (1.94 lbs)		
	Housing	Injection-molded plastic, dark-gray finish								
	Lens	Clear 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								
Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>									
Certification and Safety	Certification	UL, CE, FCC, SAA, C-Tick, CCC								
	Environment	Damp Location, IP20								

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

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

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



## Specifications, 3500 K\*

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

Item	Specification	152 mm (6 in)			305 mm (12 in)			1220 mm (48 in)		
Output	Lumens†	124			257			860		
	Efficacy (lm / W)	72.5			84.2			90		
	CRI	82			81			81		
Electrical	Input Voltage	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC
	Power Consumption	1.8 W	2.3 W	2.3 W	3.2 W	3.3 W	3.4 W	10.0 W	10.0 W	10.0 W
	Power Factor (@ 120 VAC)	.98			.97			.96		
Control	Dimming	Compatible with selected with selected commercially available reverse-phase ELV-type dimmers§								
Physical	Dimensions <i>Height x Length x Width</i>	35 x 152 x 32 mm (1.37 x 6.0 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12.0 x 1.25 in)			47 x 1218 x 38 mm (1.90 x 48.0 x 1.5 in)		
	Weight	103 g (0.23 lbs)			166 g (0.37 lbs)			880 g (1.94 lbs)		
	Housing	Injection-molded plastic, dark-gray finish								
	Lens	Clear 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								
Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>									
Certification and Safety	Certification	UL, CE, FCC, SAA, C-Tick, CCC								
	Environment	Damp Location, IP20								

## Specifications, 4000 K\*

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

Item	Specification	152 mm (6 in)			305 mm (12 in)			1220 mm (48 in)		
Output	Lumens†	117			247			819		
	Efficacy (lm / W)	68.9			81.6			88.3		
	CRI	83			82			82		
Electrical	Input Voltage	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC
	Power Consumption	1.8 W	2.3 W	2.3 W	3.2 W	3.3 W	3.4 W	10.0 W	10.0 W	10.0 W
	Power Factor (@ 120 VAC)	.97			.97			.96		
Control	Dimming	Compatible with selected with selected commercially available reverse-phase ELV-type dimmers§								
Physical	Dimensions <i>Height x Length x Width</i>	35 x 152 x 32 mm (1.37 x 6.0 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12.0 x 1.25 in)			47 x 1218 x 38 mm (1.90 x 48.0 x 1.5 in)		
	Weight	103 g (0.23 lbs)			166 g (0.37 lbs)			880 g (1.94 lbs)		
	Housing	Injection-molded plastic, dark-gray finish								
	Lens	Clear 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								
Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>									
Certification and Safety	Certification	UL, CE, FCC, SAA, C-Tick, CCC								
	Environment	Damp Location, IP20								

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

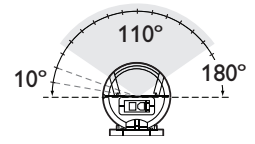
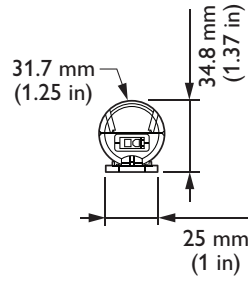
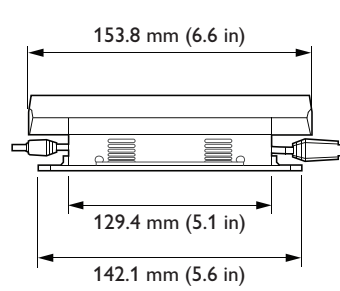
† Lumen measurement complies with IES LM-79-08 testing procedures.

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



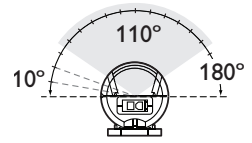
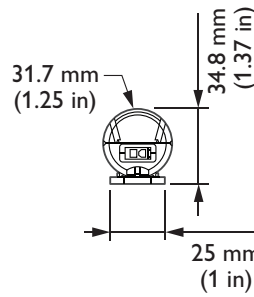
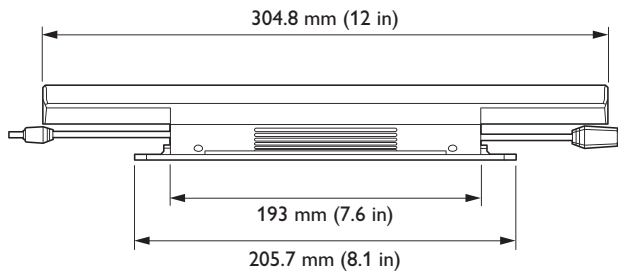
D I M A N D | O P T I B I N | P O W E R C O R E  
CK TECHNOLOGY | CK TECHNOLOGY | CK TECHNOLOGY

eW Cove EC 152 mm (6 in) fixture dimensions



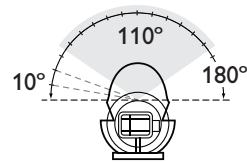
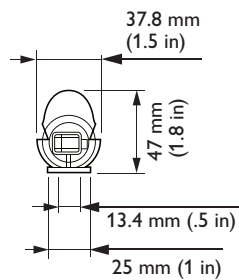
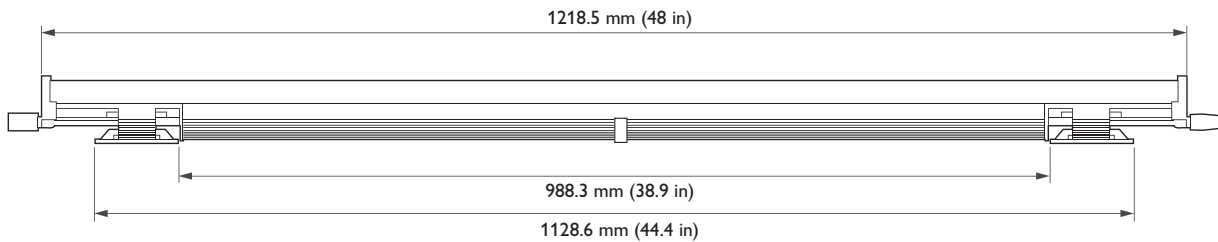
110° x 110° Beam Angle

eW Cove EC 305 mm (12 in) fixture dimensions



110° x 110° Beam Angle

eW Cove EC 1220 mm (48 in) fixture dimensions



110° x 110° Beam Angle



# Product Selection

To order eW Cove EC Powercore, select a line voltage connection option, a fixture length, and any extra options you might need.

**1** Choose fixture color temperature

2700 K    3000 K  
3500 K    4000 K

**2** Choose voltage

120 VAC  
220 – 240 VAC  
277 VAC

**3** Choose length

152 mm (6 in)  
305 mm (12 in)  
1220 mm (48 in)

**4** Choose line voltage connection option

**Permanent Installations**

Leader cable, UL / cUL, CE  
Wiring compartment, UL / cUL

**Portable Installations**

Leader cable, UL / cUL

**5** Choose optional accessories

1.5 mm (.5 in) Jumper cable  
305 mm (1 ft) Jumper cable  
Mounting track

## Compatible Dimmers\*

Supplier	Part Number	Description	Voltage
Philips	913701252701	Captivation Phase Dimmer DC-DPD-I-1S-101	120 VAC
Philips	913703021009	DTE310	230 VAC
Philips	912400133633	Data Adapter, DALI to ELV, DigiDim 452	230 VAC
Philips	913701252701	Captivation Phase Dimmer DC-DPD-I-1S-101	277 VAC
Philips Strand	A21 with IGBT module	A21 Dimmer Cabinet with IGBT Dimmer Module	120 VAC
Philips Strand	A21 with IGBT module	A21 Dimmer Cabinet with IGBT Dimmer Module	277 VAC
Lutron	NTELV-600	Nova T Electronic Low Voltage Dimmer	120 VAC
Lutron	PHPM-PA-DV-WH	Phase-Adaptive Power Module	120 VAC
Lutron	PHPM-PA-DV-WH	Phase-Adaptive Power Module	277 VAC

\* These dimmers have been tested in our lab and found to be compatible with this product. All installations are different. We highly recommend performing a full mockup of every lighting circuit, including all luminaires and controls, to test for the desired dimming range. Visit <http://1.usa.gov/1g3cGfs> for more information.

## Lumen Maintenance

Threshold†	Ambient Temperature	Reported‡	Calculated‡
L90	@ 25°C	37,000 hrs	>47,000 hrs
	@ 50°C	37,000 hrs	>47,000 hrs
L80	@ 25°C	37,000 hrs	>107,000 hrs
	@ 50°C	37,000 hrs	>107,000 hrs
L70	@ 25°C	37,000 hrs	>175,000 hrs
	@ 50°C	37,000 hrs	>175,000 hrs

† L<sub>xx</sub> = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B50, or the median value where 50% of the LED population is better than the reported or calculated lumen maintenance measurement.

‡ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures.

In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-80 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

## Ordering Information - 2700 K\*

	152 mm (6 in)		305 mm (12 in)		1220 mm (48 in)	
	Item Number	Philips 12NC	Item Number	Philips 12NC	Item Number	Philips 12NC
eW Cove EC Powercore 120 VAC	523-000090-80	912400133244	523-000091-80	912400133260	523-000092-80	912400133276
eW Cove EC Powercore 220-240 VAC	523-000090-84	912400133248	523-000091-84	912400133264	523-000092-84	912400133280
eW Cove EC Powercore 220-240 VAC Fixture and 3 m (10 ft) Leader Cable with terminator	523-000090-88	912400133252	523-000091-88	912400133268	523-000092-88	912400133284
eW Cove EC Powercore 277 VAC	523-000090-92	912400133256	523-000091-92	912400133272	523-000092-92	912400133288

Use Item Number when ordering in North America.

## Ordering Information - 3000 K\*

	152 mm (6 in)		305 mm (12 in)		1220 mm (48 in)	
	Item Number	Philips 12NC	Item Number	Philips 12NC	Item Number	Philips 12NC
eW Cove EC Powercore 120 VAC	523-000090-81	912400133245	523-000091-81	912400133261	523-000092-81	912400133277
eW Cove EC Powercore 220-240 VAC	523-000090-85	912400133249	523-000091-85	912400133265	523-000092-85	912400133281
eW Cove EC Powercore 220-240 VAC Fixture and 3 m (10 ft) Leader Cable with terminator	523-000090-89	912400133253	523-000091-89	912400133269	523-000092-89	912400133285
eW Cove EC Powercore 277 VAC	523-000090-93	912400133257	523-000091-93	912400133273	523-000092-93	912400133289

Use Item Number when ordering in North America.

## Ordering Information - 3500 K\*

	152 mm (6 in)		305 mm (12 in)		1220 mm (48 in)	
	Item Number	Philips 12NC	Item Number	Philips 12NC	Item Number	Philips 12NC
eW Cove EC Powercore 120 VAC	523-000090-82	912400133246	523-000091-82	912400133262	523-000092-82	912400133278
eW Cove EC Powercore 220-240 VAC	523-000090-86	912400133250	523-000091-86	912400133266	523-000092-86	912400133282
eW Cove EC Powercore 220-240 VAC Fixture and 3 m (10 ft) Leader Cable with terminator	523-000090-90	912400133254	523-000091-90	912400133270	523-000092-90	912400133286
eW Cove EC Powercore 277 VAC	523-000090-94	912400133258	523-000091-94	912400133274	523-000092-94	912400133290

Use Item Number when ordering in North America.

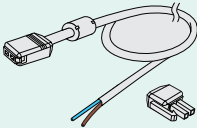
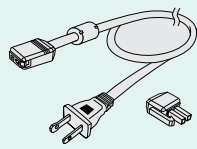
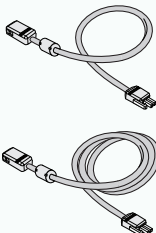
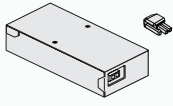
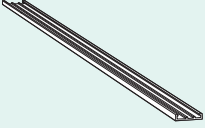
## Ordering Information - 4000 K\*

	152 mm (6 in)		305 mm (12 in)		1220 mm (48 in)	
	Item Number	Philips 12NC	Item Number	Philips 12NC	Item Number	Philips 12NC
eW Cove EC Powercore 120 VAC	523-000090-83	912400133247	523-000091-83	912400133263	523-000092-83	912400133279
eW Cove EC Powercore 220-240 VAC	523-000090-87	912400133251	523-000091-87	912400133267	523-000092-87	912400133283
eW Cove EC Powercore 220-240 VAC Fixture and 10 ft (3 m) Leader Cable with terminator	523-000090-91	912400133255	523-000091-91	912400133271	523-000092-91	912400133287
eW Cove EC Powercore 277 VAC	523-000090-95	912400133259	523-000091-95	912400133275	523-000092-95	912400133291

Use Item Number when ordering in North America.

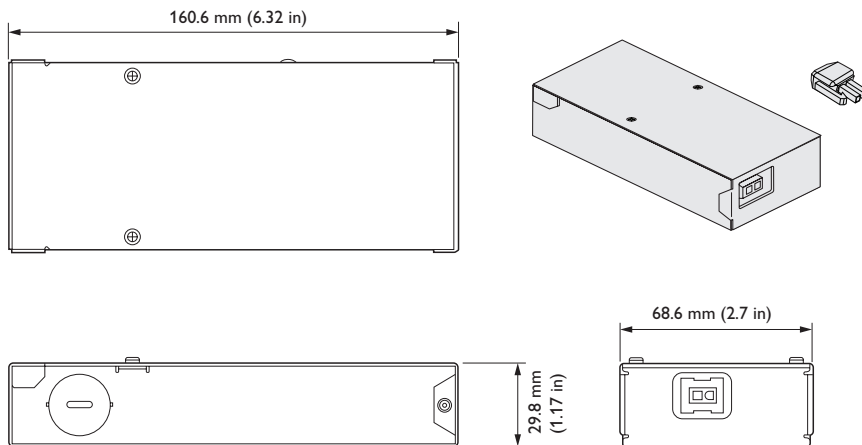
\* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

# Accessories

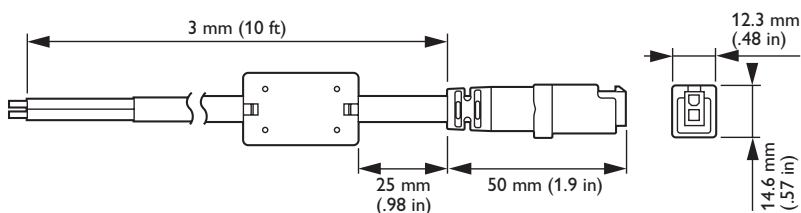
Item	Housing Color	Dimensions	Item Number	Philips 12NC		
Leader Cable (includes terminator), UL / cUL	Black	3 m (10 ft)	108-000032-10	912400130570		For connection to standard junction box
Leader Cable (includes terminator), CE / CCC	Black	3 m (10 ft)	108-000032-11	912400130571		
Leader Cable (includes terminator), UL / cUL	White	3 m (10 ft)	108-000032-12	912400130572		
Leader Cable (includes terminator), CE / CCC	White	3 m (10 ft)	108-000032-13	912400130573		
Leader Cable (includes terminator), UL, US Plug	Black	2.4 m (8 ft)	108-000032-14	912400130574		For portable installations
Jumper Cable, UL / cUL	White	305 mm (1 ft)	108-000033-06	910503700895		Depending on the installation's design, you may need jumper cables to add space between fixtures
		1.5 m (5 ft)	108-000033-07	910503700896		
Jumper Cable, CE / CCC	White	305 mm (1 ft)	108-000033-08	910503700897		
		1.5 m (5 ft)	108-000033-09	910503700898		
Wiring Compartment (includes terminator)	White	29.8 x 160.6 x 68.6 mm (1.17 x 6.32 x 2.7 in) (H x L x W)	120-000076-01	912400130576		Can be used for direct connection to conduit
Mounting Track	White	1219 mm (4 ft)	120-000125-00	910503701788		Optional mounting track ensures straight runs of fixtures

Use Item Number when ordering in North America.

## UL / cUL Wiring Compartment



## Leader Cable connector dimensions



## Included in the box

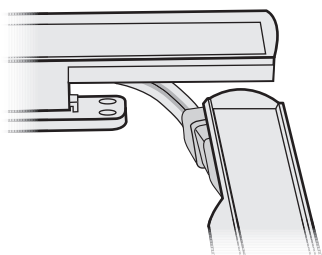
eW Cove EC Powercore fixture

Installation Instructions

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

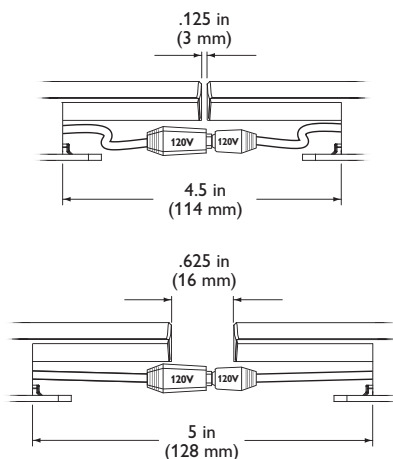
## Easy turns

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



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

## Distance between fixtures



## Installation

eW Cove EC Powercore offers high-output, energy-efficient indoor solid white 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

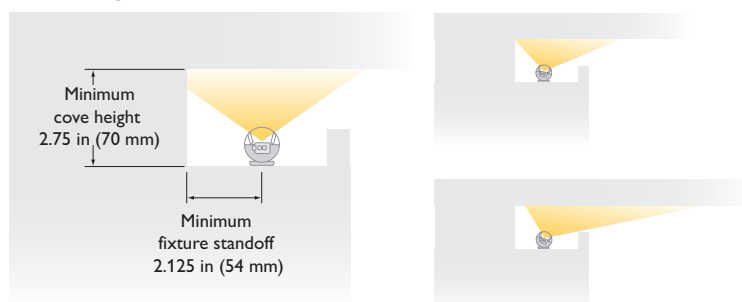
It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Cove EC Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector 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 EC Powercore**  
110° Beam angle, 180° rotation



3. eW Cove EC Powercore fixtures are installed in series. The in-line connectors allow end-to-end fixture connections for the best visual effects. When installing fixtures end-to-end, allow a minimum distance of 3 mm (.125 in) between fixtures, and a maximum distance of 16 mm (.625 in). For more spacing between fixtures, use the 305 mm (12 in) or 1.5 m (5 ft) jumper cables.
4. You can install a run of eW Cove EC Powercore fixtures using the 3 m (10 ft) 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 2.4 m (8 ft) Leader Cable with plug.

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

## Wall and Dimmer Switches Installation (Optional)

eW Cove EC 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 selected commercially available reverse-phase ELV-type dimmers.

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

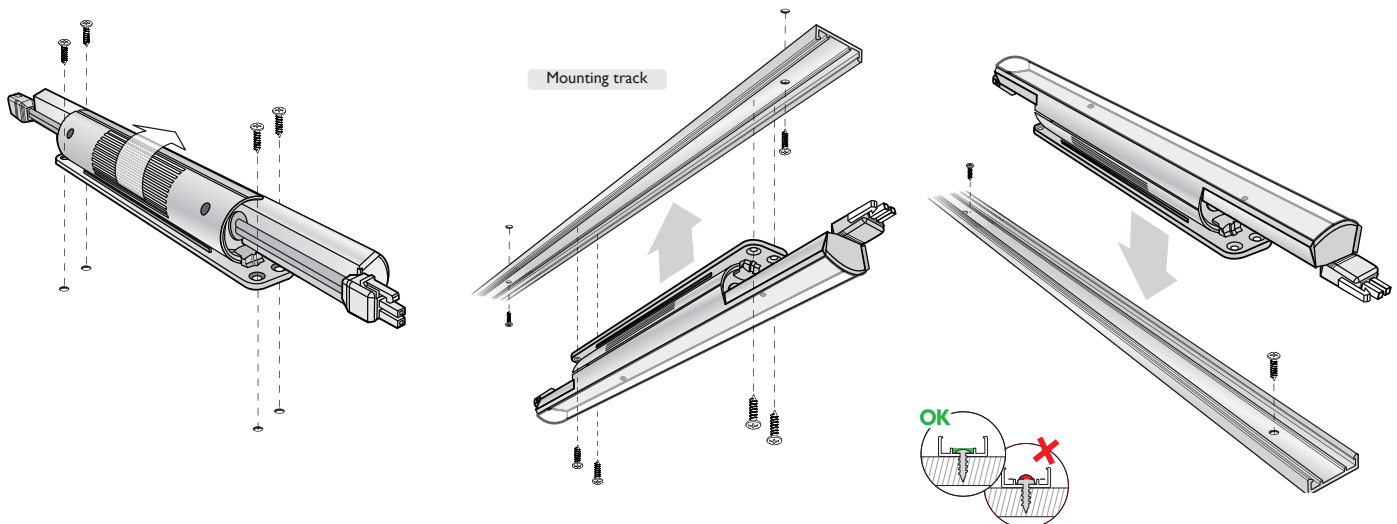
You can mount eW Cove EC Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. You can install several eW Cove EC Powercore fixtures in optional 1.2 m (48 in) lengths of mounting track to ensure a straight run.

### (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.

*\* 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.*

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





## Mount and Connect the Fixtures

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

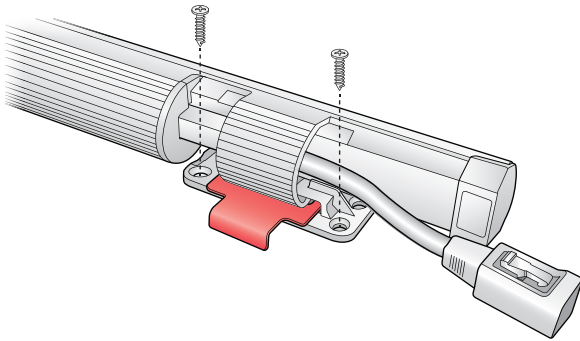
1. Rotate an eW Cove EC Powercore fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

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

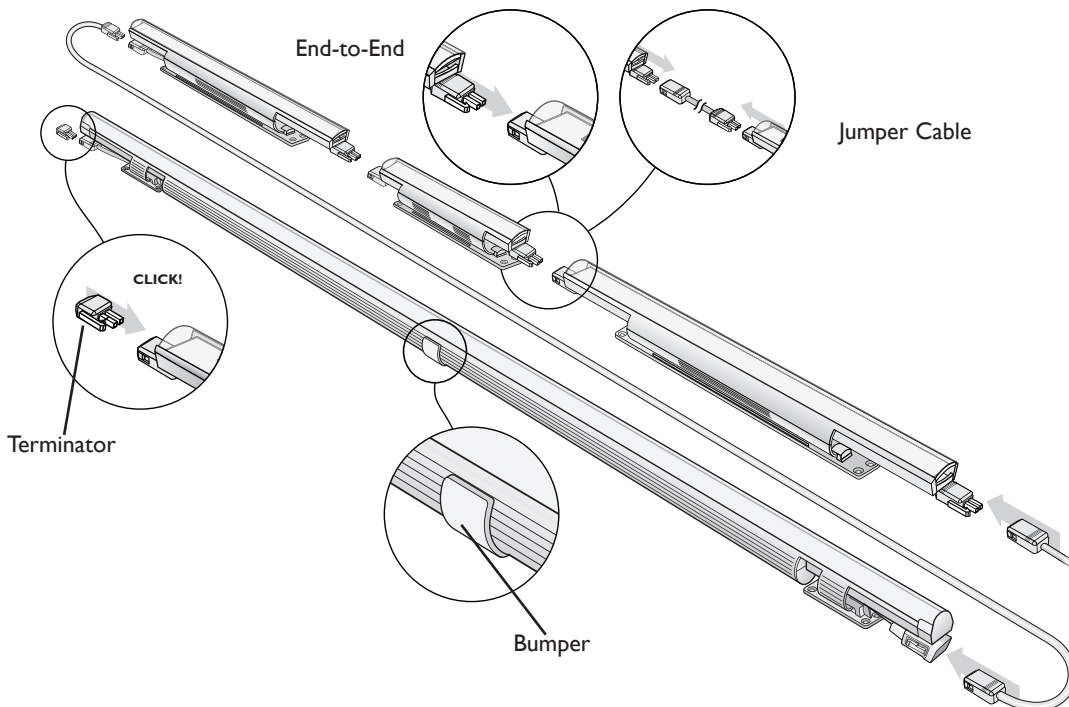
If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach the fixture with four 3.5 mm (#6) mounting screws (not included) suitable for the mounting surface. The screws must go through the tracks into the substrate or wall.

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

On 1220 mm (48 in) eW Cove QLX fixtures, there are red centering spacers in the two fixture bases. The spacers keep the fixture body centered in the bases during mounting. Remove these spacers only when the mounting operation is complete, or when the fixture is mounted in mounting tracks.



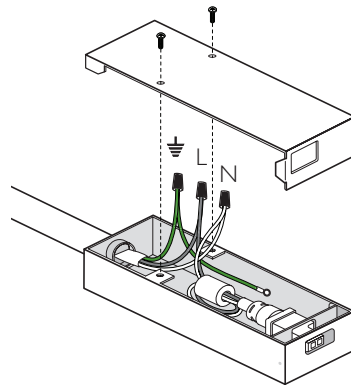
The 1220 mm (48 in) fixtures also have a bumper strip in the middle to protect the fixture from flex and vibration. Do not remove it.



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):**

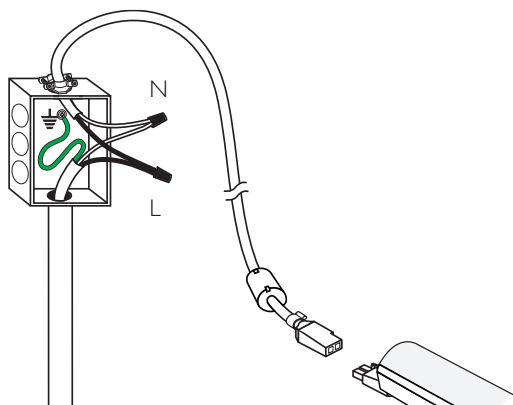
- Remove the cover from the eW Cove Powercore Wiring Compartment.
- Using wire nuts, connect ground, neutral, and line inside the Wiring Compartment housing, then replace the cover.



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

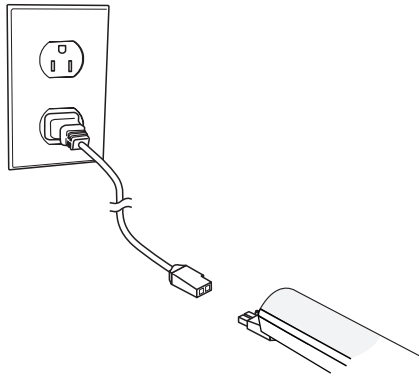
**To connect the first fixture in a series to a third-party junction box using the 3 m (10 ft) Leader Cable (permanent installation):**

- 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 3 m (10 ft) Leader Cable to the first fixture in the series.



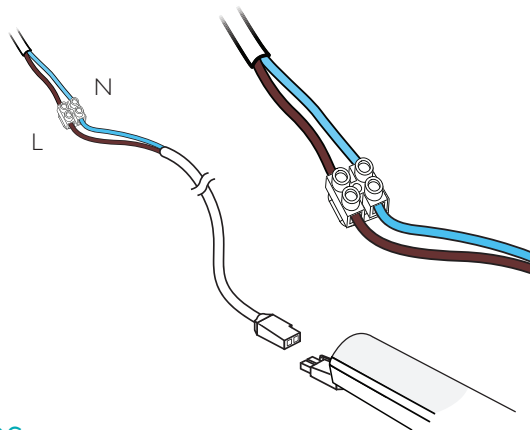
### For portable installations (UL / cUL):

- Plug the 2.4 m (8 ft) 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.




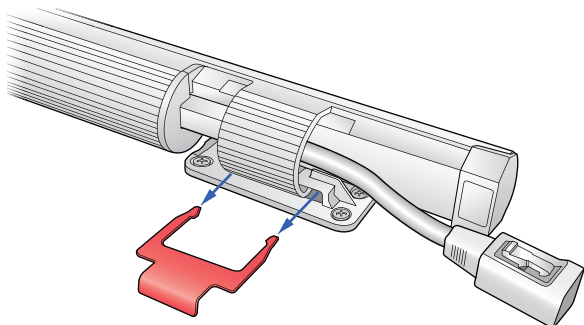
## Aim the Fixtures

Make sure the power is ON before aiming fixtures.

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.

On 1220 mm (48 in) eW Cove QLX fixtures, remove and recycle the red centering spacers from the two fixture bases.

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



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