

eW Cove Powercore

Dimmable, efficient light for interior alcoves and niches

eW® Cove Powercore is a dimmable, linear LED fixture that provides an energy-efficient, low-maintenance alternative to traditional cove lighting in applications requiring white or solid-color light. With its low profile, rotating housing, flexible end-to-end locking power connectors, and range of colors and color temperatures, eW Cove Powercore is the perfect choice for a wide range of interior retail, exhibit, hospitality, and architectural settings. Patented Powercore, which powers fixtures directly from line voltage, supports long runs of fixtures on a single circuit while offering improved operational efficiency and cost-effective installation and operation.

- 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.
- Range of colors and color temperatures — Available in five color temperatures, ranging from a warm 2800 K to a cool 5000 K, and three solid colors (Amber, Green, and Blue). Warmer color temperatures are appropriate for intimate, open environments such as restaurants, hotel lobbies, and homes, while cooler color temperatures are appropriate for lighting clean and efficient spaces such as offices, classrooms, and hospitals.
- Smooth dimming capability — Patented DIMand technology offers smooth dimming capability with standard ELV-type dimmers.
- Support for 100, 120, and 230 VAC — eW Cove Powercore accepts a power input of 100, 120, or 230 VAC for consistent installation and operation from line voltage in a variety of locations.
- Compact and flexible — eW Cove 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 can not. Sizes of 12 in (305 mm) and 6 in (152 mm) offer further flexibility in positioning.
- Easy installation — Powercore delivers line voltage directly to the fixtures, simplifying installation by eliminating the need for external power supplies and allowing long product runs. Easy-to-install 4 ft (1.2 m) mounting tracks allow quick project setup in linear applications.
- Flexible mounting and positioning — With end-to-end locking power connectors that can make 180° turns, eW Cove 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.



A Green Flagship Product

Our Green Flagship Products offer significantly improved environmental performance in two or more of the following Green Focal Areas: weight, energy consumption, hazardous substances, packaging, recycling, disposal, and lifetime reliability.

Warmth and Efficiency with eW Cove Powercore

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



Old North Church

Boston's Old North Church replaced its existing click-strip incandescent lighting with 130 eW Cove Powercore units, installed along interior niches of the church's upper gallery. As shown on the cover and to the left, the eW Cove Powercore fixtures cast a warm glow along the church's niches, while accentuating the historic arches and moldings.

Not only do the LED fixtures consume six times less energy than the previous incandescent system (40 watts per eight-foot run, versus 240 watts), they offer a projected lifetime of 50,000 hours — up to 25 times longer than the previous fixtures. With eW Cove Powercore fixtures in place, the management of Old North Church expects to cut energy consumption by nearly 85%.

The fixtures' low profile and simple line-power installation, courtesy of patented Powercore technology, enable them to fit in narrow alcoves and niches where traditional light sources that require ballasts, additional power supplies, and other equipment can not. For further efficiency and

ease of use, the church can smoothly dim the eW Cove Powercore fixtures with their existing ELV-type dimmers.

Flinstering

Across the Atlantic, Flinstering, a funky restaurant in Breda, the Netherlands, uses LED lighting to create ambiance and atmosphere while benefitting from its long lifetime, low maintenance, simplicity of installation, and energy efficiency.

Flinstering uses the high-quality white light offered by eW Cove Powercore for dramatic illumination and accenting. As shown here, eW Cove Powercore fixtures warmly illuminate the surface beneath the colored bottles behind the bar.



Photometrics

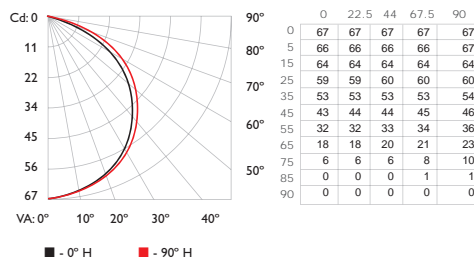
Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.colorkinetics.com/support/ies.

eW Cove Powercore 4200 K, 12 in (305 mm)

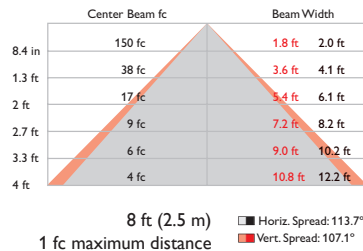
Power Consumption	4.5 W
Lumens	177
Efficacy	39.3 lm/W



Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	51.8	29.3%	29.2%
0-40	85.0	48%	48%
0-60	148.9	84.1%	84.1%
60-90	28.2	15.9%	15.9%
0-90	177.1	100%	100%
90-180	0	0%	0%
0-180	177.1	100%	100%
Total Efficiency: 100%			

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.00
1	1.10	1.06	1.02	.98	1.07	1.03	1.00	.87	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86	.84	.82	.86
2	1.00	.93	.86	.81	.98	.91	.85	.74	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73	.71	.68	.73
3	.92	.82	.74	.68	.89	.80	.73	.63	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62	.60	.57	.62
4	.84	.73	.64	.58	.82	.71	.63	.55	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53	.51	.48	.53
5	.77	.65	.56	.50	.75	.64	.56	.48	.62	.55	.49	.60	.53	.49	.58	.52	.48	.46	.44	.42	.46
6	.72	.59	.50	.44	.70	.58	.49	.42	.56	.48	.43	.54	.46	.43	.53	.47	.42	.40	.38	.36	.40
7	.66	.53	.45	.39	.65	.52	.44	.37	.51	.43	.38	.49	.43	.38	.48	.42	.38	.36	.34	.32	.36
8	.62	.48	.40	.34	.60	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32	.30	.28	.32
9	.58	.44	.36	.31	.56	.44	.36	.30	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29	.27	.25	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26	.24	.22	.26

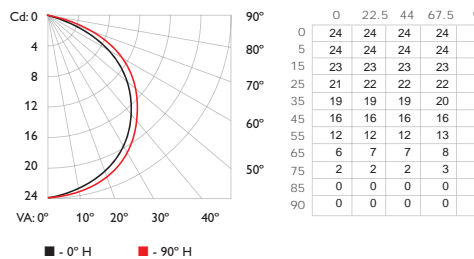
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

eW Cove Powercore 4200 K, 6 in (152 mm)

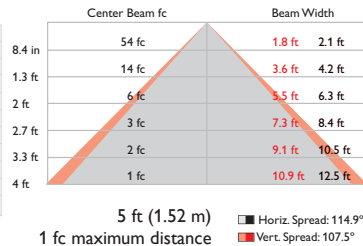
Power Consumption	2.2 W
Lumens	65
Efficacy	29.5 lm/W



Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	18.8	29.4%	29.2%
0-40	30.9	48.2%	47.9%
0-60	54.1	84.6%	84%
60-90	10.2	16%	15.9%
0-90	64.4	100.6%	99.8%
90-180	0.1	0.2%	0.2%
0-180	64.5	100.7%	100%
Total Efficiency: 100.7%			

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.20	1.20	1.20	1.20	1.17	1.17	1.17	1.01	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	1.03	1.03	1.03	1.01
1	1.11	1.06	1.02	.99	1.08	1.04	1.00	.87	1.00	.97	.94	.96	.93	.91	.92	.90	.89	.86	.84	.82	.86
2	1.01	.93	.87	.82	.98	.91	.86	.74	.88	.83	.79	.85	.80	.77	.82	.78	.75	.73	.71	.68	.73
3	.92	.82	.75	.68	.90	.81	.74	.64	.78	.72	.66	.75	.70	.65	.72	.68	.64	.62	.60	.57	.62
4	.85	.73	.65	.58	.82	.72	.64	.55	.69	.62	.57	.67	.61	.56	.65	.60	.55	.53	.51	.48	.53
5	.78	.65	.57	.50	.76	.64	.56	.48	.62	.55	.49	.60	.54	.49	.58	.53	.48	.46	.44	.42	.46
6	.72	.59	.50	.44	.70	.58	.50	.42	.56	.49	.43	.54	.48	.43	.53	.47	.42	.40	.38	.36	.40
7	.67	.53	.45	.39	.65	.53	.44	.38	.51	.44	.38	.50	.43	.38	.48	.42	.38	.36	.34	.32	.36
8	.62	.49	.40	.35	.61	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32	.30	.28	.32
9	.58	.45	.37	.31	.57	.44	.36	.30	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29	.27	.25	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26	.24	.22	.26

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

For lux multiply fc by 10.7