eW Cove QLX Powercore

Date:
Type:
Firm Name:
Project:

3500 K, 120 VAC, 60° x 90°, 305 mm (12 in)

Performance interior linear cove and accent luminaire with single temperature white light

eW Cove QLX Powercore represents the latest in high-quality linear LED cove lighting from Color Kinetics. This elegant, low-profile luminaire delivers up to 432 lumens per foot of white light at an affordable price. eW Cove QLX Powercore is designed to replace traditional cove lighting sources for wall and ceiling glow effects, wall washing, and indirect lighting from a single cove. Multiple color temperatures, beam angles, power levels, and lengths afford an abundance of design options.

ENERGY STAR

- Industry-best white-light quality and color consistency—Advances in Optibin, Color Kinetics' proprietary binning optimization process, now provides color-consistency within a 2-step MacAdam ellipse across eW Cove product luminaires and manufacturing runs.
- Uncompromised Performance—Efficacies near or exceeding 100 lm/w provide optimum output without restrictions on lumen maintenance, operating temperature or warranty.
- Multiple options for design flexibility—Available in four color temperatures ranging from a warm 2700 K to a cool 4000 K. Lengths of 154 mm (6 in), 305 mm (12 in), and 1219 mm (48 in), wide and medium beam angles, and two power levels offer further design flexibility.
- Support for multiple voltages—eW Cove QLX Powercore accepts power input of 120, 220 to 240, or 277 VAC for consistent installation and operation from line voltage in a variety of locations.
- Smooth dimming capability—Smooth dimming capability—Patented DIMand technology offers smooth dimming capability with the DM-1000 0-10 V ELV Dimmer or selected reverse-phase ELV-type dimmers.
- Integrates patented Powercore technology—Powercore rapidly, efficiently, and accurately controls power output to luminaires directly from line voltage, eliminating the need for external power supplies and lowering 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. Luminaires 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 (5 ft) jumper cables can add extra space between luminaires.
- Replaces traditional cove lighting—With excellent light output, competitive pricing, long source life, energy efficiency, and virtually maintenance-free operation.
- ENERGY STAR® qualified—As an ENERGY STAR® qualified LED luminaire (selected UL listed models only), eW Cove Powercore helps prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Department of Energy.

For detailed product information, please refer to the Cove Product Guide at www.colorkinetics.com/global/products/essentialwhite/ewcoveqlxpc/

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Specifications

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

Output

Color Temperature *	3500 K
Beam Angle	60° x 90°
Lumens †	410
Efficacy (lm/W)	82.8
CRI	96

Electrical

Input Voltage	120 VAC
Power Consumption (Maximum at full output, steady state)	5 W
Power Factor	0.99 @ 120 VAC
Surge Limits ¶	0.5 kV maximum differential (L to N) 1 kV maximum common (L to Gnd or N to Gnd)

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Control

Dimmer ‡

Compatible with selected commercially available reverse-phase ELV-type dimmers

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L_{90}	25 °C	59,484	59,484
	50 °C	28,050	28,050
L_{80}	25 °C	> 60,000	> 100,000
	50 °C	> 60,000	> 100,000
L_{70}	25 °C	> 60,000	> 100,000
	50 °C	> 60,000	> 100,000
L_{50}	25 °C	> 60,000	> 100,000
	50 °C	> 60,000	> 100,000

Physical

Dimensions (Height x Width x Depth)	40 x 305 x 32 mm (1.56 x 12 x 1.25 in)
Weight	186 g (0.41 lb)
Housing Material	Injection-molded plastic, white finish
Lens	Clear polycarbonate
Luminaire Connections	Integral male/female connectors

Temperature Ranges

-20 to 50 °C (-4 to 122 °F) Operating
-20 to 50 °C (-4 to 122 °F) Startup
-40 to 80 °C (-40 to 176 °F) Storage

Humidity	0 to 95%, non-condensing

Thermal Protection enabled

For additional Thermal Protection information, please refer to https://colorkinetics.helpdocs.io/article/sh301ducix

Certification and Safety

Approbation	UL/cUL, FCC Class B
Certification	ENERGY STAR
Environment	Damp Location, IP20

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

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

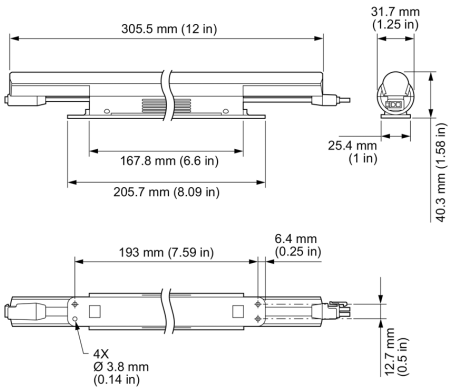
‡ Refer to www.colorkinetics.com/support/appnotes/ for more information.

§ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶ Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

¶¶ 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-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

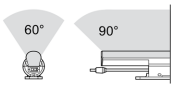
Dimensions



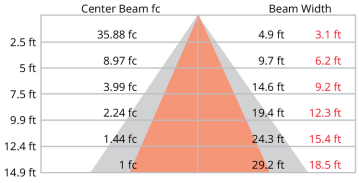
Photometrics 3500 K, 60° x 90°, 305 mm (12 in)

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

Beam Angle	60° x 90°
LED	3500 K
Lumens	410.0
Efficacy (lm/W)	82.8



Illuminance at Distance



14.9 ft (4.5 m)
1 fc maximum distance

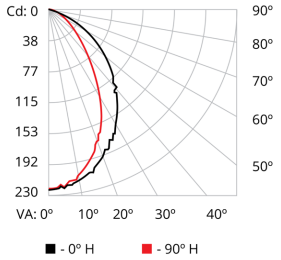
Vert. Spread: 88.8°
Horiz. Spread: 63.6°

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	151.7	37%
0-40	227.1	55.40%
0-60	334.8	81.70%
60-90	62.2	15.20%
70-100	37.1	9.10%
90-120	11.7	2.80%
0-90	397	96.90%
90-180	12.6	3.10%
0-180	409.6	100%

For lux multiply fc by 10.7

Polar Candela Distribution



	0	25	45	70	90
0	221	221	221	221	221
5	221	220	220	217	218
15	208	202	197	194	194
25	177	174	163	155	150
35	145	138	122	104	97
45	108	96	77	61	58
55	73	61	46	39	38
65	44	35	29	26	26
75	21	18	18	18	18
85	4	8	11	12	13
90	1	6	9	10	11

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	1.15	1.15	1.15	0.97	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.97
1	1.09	1.04	1	0.97	1.06	1.02	0.98	0.84	0.97	0.94	0.92	0.93	0.9	0.88	0.89	0.87	0.85	0.83
2	1	0.93	0.87	0.81	0.97	0.91	0.85	0.73	0.87	0.82	0.78	0.83	0.79	0.76	0.8	0.76	0.74	0.71
3	0.92	0.83	0.76	0.7	0.9	0.81	0.74	0.64	0.78	0.72	0.67	0.75	0.7	0.66	0.72	0.68	0.64	0.62
4	0.86	0.75	0.67	0.61	0.83	0.73	0.66	0.56	0.7	0.64	0.59	0.68	0.62	0.58	0.65	0.61	0.57	0.55
5	0.79	0.68	0.59	0.53	0.77	0.66	0.59	0.5	0.64	0.57	0.52	0.62	0.56	0.51	0.6	0.55	0.51	0.49
6	0.74	0.62	0.54	0.48	0.72	0.61	0.53	0.45	0.59	0.52	0.47	0.57	0.51	0.46	0.55	0.5	0.45	0.44
7	0.69	0.57	0.49	0.43	0.67	0.56	0.48	0.41	0.54	0.47	0.42	0.52	0.46	0.42	0.51	0.45	0.41	0.39
8	0.65	0.52	0.44	0.39	0.63	0.51	0.44	0.37	0.5	0.43	0.38	0.48	0.42	0.38	0.47	0.42	0.38	0.36
9	0.61	0.48	0.41	0.36	0.59	0.48	0.4	0.34	0.46	0.4	0.35	0.45	0.39	0.35	0.44	0.38	0.34	0.33
10	0.57	0.45	0.38	0.33	0.56	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.41	0.36	0.32	0.3

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
eW Cove QLX Powercore, 3500 K, 120 VAC, 60° x 90°, 305 mm (12 in)	523-000108-30	912400137017
Accessories		
Leader Cable with Terminator, UL/cUL, 3 m (10 ft), White	108-000032-12	912400130572
Leader Cable with Terminator, CE/CCC, 3 m (10 ft), White	108-000032-13	912400130573
Jumper Cable, UL/cUL, 305 mm (1 ft), White	108-000033-06	910503700895
Jumper Cable, CE/CCC, 305 mm (1 ft), White	108-000033-08	910503700897
Wiring Compartment with Terminator, White	120-000076-01	912400130576
Mounting Track, 1 @ 1219 mm (4 ft), White	120-000125-00	910503701788
DM-1000 0-10 V ELV Dimmer	109-000036-00	912400135916

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