



# eW Cove QLX Powercore

Performance interior linear LED cove and accent fixture with solid white light



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## Performance interior linear LED cove and accent fixture with solid white light

eW Cove QLX Powercore represents the latest in high-quality linear LED cove lighting from Philips Color Kinetics. This elegant, low-profile fixture 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.

- 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 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 152 mm (6 in), 305 mm (12 in), and 1220 mm (48 in), wide and medium beam angles, and two power levels offer further design flexibility.
- Support for multiple voltages — Accepts power input of 120, 220 – 240, or 277 VAC for consistent installation and operation from line voltage in many locations.
- Smooth dimming capability — Patented DIMand technology offers smooth dimming capability with selected 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 external power supplies and lowering total system cost.
- Easy mounting and positioning — End-to-end locking power connectors can 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 color 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.
- Replaces traditional cove lighting — With excellent light output, competitive pricing, long source life, energy efficiency, and virtually maintenance-free operation.



### Compact and Flexible

eW Cove QLX Powercore low-profile fixtures fit in narrow alcoves, display cases, light boxes, and other tight spaces where fixtures requiring ballasts, external power supplies, and other auxiliary equipment cannot.

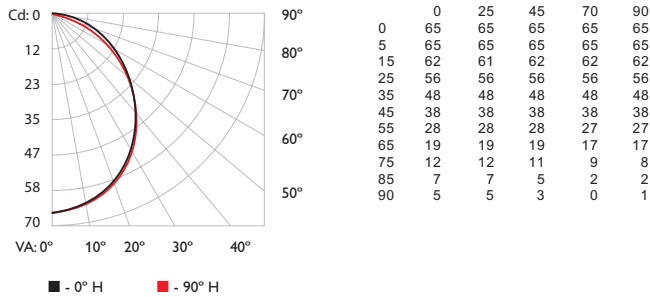
# Photometrics / eW Cove QLX Powercore, 2700 K, High Power, 152 mm (6 in)

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).

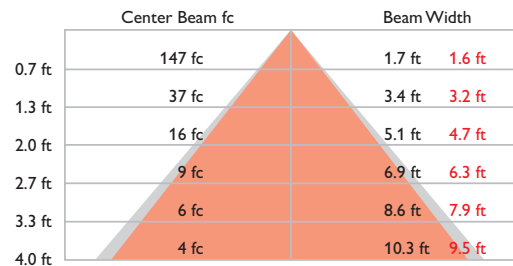
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
176	67.8 lm / W

### Polar Candela Distribution



### Illuminance at Distance



8.0 ft (2.4 m) Vert. Spread: 104.2°  
 1 fc maximum distance Horiz. Spread: 99.5°

### 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	1.15	1.15	1.15	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98	1.00	1.00	1.00	0.98	
	1	1.08	1.03	0.98	0.94	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.87	0.85	0.83	0.81	0.87	0.85	0.83	0.81	
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.78	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68	0.77	0.73	0.70	0.68	
	3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.67	0.62	0.71	0.65	0.61	0.68	0.63	0.59	0.57	0.68	0.63	0.59	0.57	
	4	0.82	0.70	0.61	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49	0.61	0.56	0.51	0.49	
	5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.44	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43	0.55	0.49	0.45	0.43	
	6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.37	0.50	0.44	0.40	0.37	
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33	0.46	0.40	0.35	0.33	
	8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30	0.42	0.36	0.32	0.30	
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27	0.39	0.33	0.29	0.27	
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24	0.36	0.30	0.26	0.24	

### Zonal Lumen

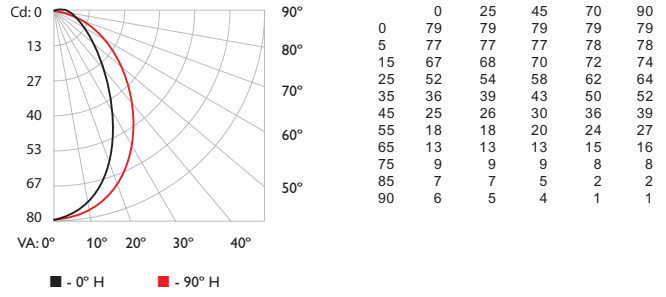
ZONE	LUMENS	%FIXT
0- 30	49.5	28.1
0- 40	79.7	45.2
0- 60	135.2	76.7
0- 90	172.0	97.6
60- 90	36.8	20.9
70-100	20.4	11.6
90-120	4.0	2.3
90-180	4.3	2.4
0-180	176.3	100.0

For lux multiply fc by 10.7

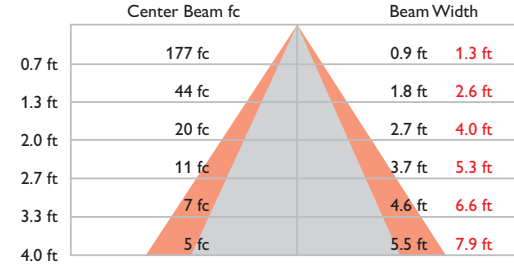
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
166	63.5 lm / W

### Polar Candela Distribution



### Illuminance at Distance



8.9 ft (2.7 m) Vert. Spread: 68.9°  
 1 fc maximum distance Horiz. Spread: 89.6°

### 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	0.95	1.08	1.08	1.08	1.02	1.02	1.02	0.97	0.97	0.97	0.95	0.97	0.97	0.97	0.95	
	1	1.08	1.03	0.99	0.95	1.04	1.00	0.96	0.80	0.95	0.92	0.89	0.90	0.87	0.85	0.85	0.83	0.82	0.79	0.85	0.83	0.82	0.79	
	2	0.98	0.91	0.84	0.78	0.95	0.88	0.82	0.68	0.84	0.79	0.74	0.80	0.76	0.72	0.76	0.73	0.70	0.67	0.76	0.73	0.70	0.67	
	3	0.90	0.80	0.73	0.66	0.88	0.78	0.71	0.59	0.75	0.69	0.64	0.71	0.66	0.62	0.68	0.64	0.60	0.58	0.68	0.64	0.60	0.58	
	4	0.83	0.72	0.64	0.57	0.81	0.70	0.63	0.52	0.67	0.61	0.55	0.64	0.59	0.54	0.62	0.57	0.53	0.51	0.62	0.57	0.53	0.51	
	5	0.77	0.65	0.57	0.50	0.75	0.64	0.56	0.46	0.61	0.54	0.49	0.58	0.52	0.48	0.56	0.51	0.47	0.45	0.56	0.51	0.47	0.45	
	6	0.72	0.59	0.51	0.45	0.69	0.58	0.50	0.41	0.56	0.49	0.43	0.53	0.47	0.43	0.51	0.46	0.42	0.40	0.51	0.46	0.42	0.40	
	7	0.67	0.54	0.46	0.40	0.65	0.53	0.45	0.37	0.51	0.44	0.39	0.49	0.43	0.38	0.47	0.42	0.38	0.36	0.47	0.42	0.38	0.36	
	8	0.62	0.50	0.42	0.36	0.61	0.49	0.41	0.34	0.47	0.40	0.35	0.45	0.39	0.35	0.44	0.38	0.34	0.32	0.44	0.38	0.34	0.32	
	9	0.59	0.46	0.38	0.33	0.57	0.45	0.38	0.31	0.44	0.37	0.32	0.42	0.36	0.32	0.41	0.35	0.31	0.29	0.41	0.35	0.31	0.29	
	10	0.55	0.43	0.35	0.30	0.54	0.42	0.35	0.29	0.41	0.34	0.29	0.39	0.33	0.29	0.38	0.33	0.29	0.27	0.38	0.33	0.29	0.27	

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	54.5	32.8
0- 40	82.6	49.7
0- 60	127.1	76.4
0- 90	157.2	94.5
60- 90	30.2	18.1
70-100	19.6	11.8
90-120	7.8	4.7
90-180	9.1	5.5
0-180	166.3	100.0

For lux multiply fc by 10.7

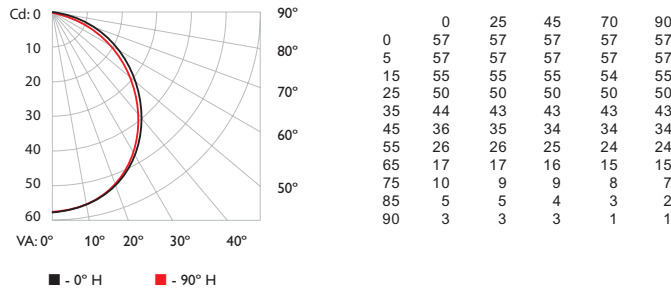
# Photometrics / eW Cove QLX Powercore, 2700 K, Low Power, 152 mm (6 in)

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).

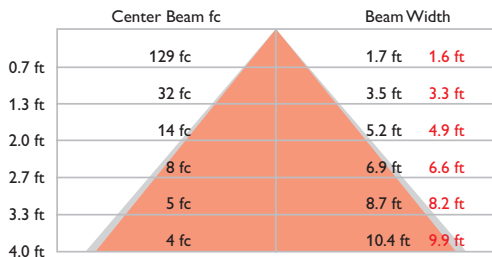
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
154	73.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



7.6 ft (2.3 m) Vert. Spread: 104.8°  
 1 fc maximum distance Horiz. Spread: 101.9°

### 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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
	1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.83	0.96	0.93	0.9	0.92	0.89	0.87	0.88	0.86	0.84	0.82
	2	0.99	0.90	0.84	0.78	0.96	0.88	0.82	0.70	0.85	0.79	0.75	0.81	0.77	0.73	0.78	0.74	0.71	0.69
	3	0.90	0.80	0.72	0.65	0.87	0.78	0.70	0.60	0.75	0.68	0.63	0.72	0.66	0.62	0.69	0.64	0.60	0.58
	4	0.83	0.71	0.62	0.56	0.80	0.69	0.61	0.52	0.67	0.60	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
	5	0.76	0.63	0.55	0.48	0.74	0.62	0.54	0.45	0.60	0.53	0.47	0.58	0.51	0.46	0.56	0.50	0.46	0.43
	6	0.70	0.57	0.48	0.42	0.68	0.56	0.48	0.40	0.54	0.47	0.41	0.52	0.46	0.41	0.51	0.45	0.40	0.38
	7	0.65	0.52	0.43	0.37	0.64	0.51	0.43	0.36	0.49	0.42	0.37	0.48	0.41	0.36	0.46	0.40	0.36	0.34
	8	0.61	0.48	0.39	0.33	0.59	0.47	0.39	0.32	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.32	0.30
	9	0.57	0.44	0.36	0.30	0.55	0.43	0.35	0.29	0.42	0.35	0.30	0.40	0.34	0.29	0.39	0.33	0.29	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.40	0.32	0.26	0.39	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.27	0.25

### Zonal Lumen

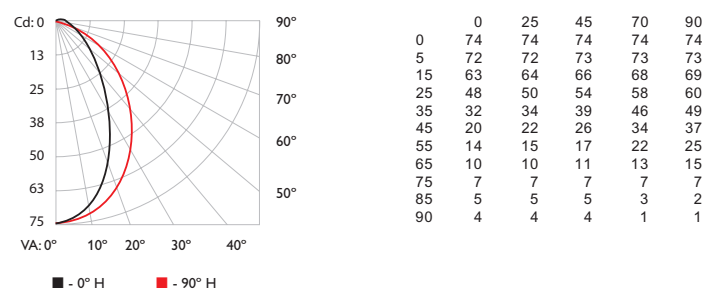
ZONE	LUMENS	%FIXT
0- 30	44.0	28.5
0- 40	71.1	46.1
0- 60	121.1	78.4
0- 90	151.4	98.1
60- 90	30.4	19.7
70-100	15.8	10.2
90-120	2.7	1.8
90-180	2.9	1.9
0-180	154.4	100.0

For lux multiply fc by 10.7

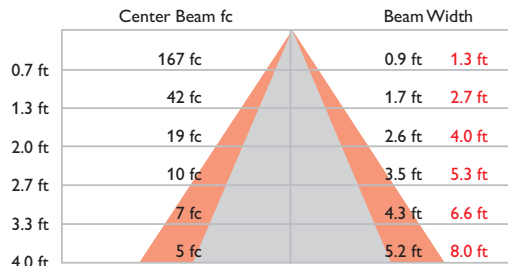
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
148	70.1 lm / W

### Polar Candela Distribution



### Illuminance at Distance



8.6 ft (2.6 m) Vert. Spread: 65.8°  
 1 fc maximum distance Horiz. Spread: 89.8°

### 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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.95	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.95
	1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.81	0.96	0.92	0.90	0.91	0.88	0.86	0.86	0.85	0.83	0.80
	2	0.99	0.91	0.85	0.80	0.96	0.89	0.83	0.70	0.85	0.80	0.76	0.81	0.77	0.73	0.77	0.74	0.71	0.69
	3	0.91	0.81	0.74	0.68	0.88	0.79	0.72	0.61	0.76	0.70	0.65	0.73	0.68	0.63	0.69	0.65	0.62	0.59
	4	0.84	0.73	0.65	0.59	0.82	0.71	0.64	0.54	0.68	0.62	0.57	0.66	0.60	0.55	0.63	0.58	0.54	0.52
	5	0.78	0.66	0.58	0.52	0.76	0.65	0.57	0.48	0.62	0.55	0.50	0.60	0.54	0.49	0.57	0.52	0.48	0.46
	6	0.73	0.60	0.52	0.46	0.70	0.59	0.51	0.43	0.57	0.50	0.45	0.55	0.49	0.44	0.53	0.47	0.43	0.41
	7	0.68	0.55	0.47	0.41	0.66	0.54	0.46	0.39	0.52	0.45	0.40	0.50	0.44	0.40	0.49	0.43	0.39	0.37
	8	0.63	0.51	0.43	0.37	0.62	0.50	0.42	0.35	0.48	0.41	0.36	0.47	0.40	0.36	0.45	0.40	0.35	0.34
	9	0.59	0.47	0.39	0.34	0.58	0.46	0.39	0.32	0.45	0.38	0.33	0.43	0.37	0.33	0.42	0.36	0.32	0.31
	10	0.56	0.43	0.36	0.31	0.54	0.43	0.36	0.30	0.42	0.35	0.31	0.40	0.34	0.30	0.39	0.34	0.30	0.28

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	51.0	34.5
0- 40	76.8	51.9
0- 60	115.7	78.2
0- 90	140.8	95.2
60- 90	25.1	17.0
70-100	16.0	10.8
90-120	6.1	4.1
90-180	7.1	4.8
0-180	147.9	100.0

For lux multiply fc by 10.7

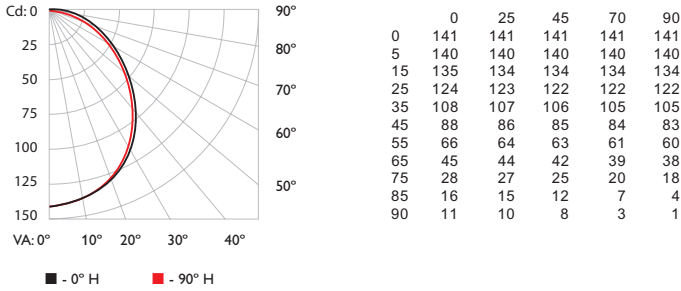
# Photometrics / eW Cove QLX Powercore, 2700 K, High Power, 305 mm (12 in)

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).

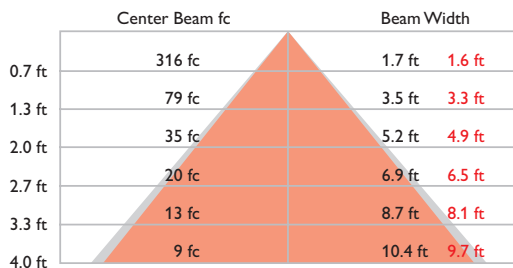
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
384	78.9 lm / W

### Polar Candela Distribution



### Illuminance at Distance



11.9 ft (3.6 m) Vert. Spread: 104.8°  
 1 fc maximum distance Horiz. Spread: 101.4°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																								
	80				70				50				30				10				0				
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	50	30
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98	0.98	0.98	0.98	0.98	0.98	0.98
	1	1.08	1.03	0.99	0.95	1.05	1.01	0.96	0.82	0.96	0.93	0.9	0.92	0.89	0.86	0.88	0.85	0.83	0.81	0.81	0.81	0.81	0.81	0.81	0.81
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.82	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68	0.68	0.68	0.68	0.68	0.68	0.68
	3	0.90	0.79	0.71	0.65	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.66	0.61	0.68	0.64	0.60	0.57	0.57	0.57	0.57	0.57	0.57	0.57
	4	0.82	0.70	0.62	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.52	0.49	0.49	0.49	0.49	0.49	0.49	0.49
	5	0.76	0.63	0.54	0.47	0.74	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43	0.43	0.43	0.43	0.43	0.43	0.43
	6	0.70	0.57	0.48	0.42	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38	0.38	0.38	0.38	0.38	0.38	0.38
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.42	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33	0.33	0.33	0.33	0.33	0.33	0.33
	8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30	0.30	0.30	0.30	0.30	0.30	0.30
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27	0.27	0.27	0.27	0.27	0.27	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24	0.24	0.24	0.24	0.24	0.24	0.24

### Zonal Lumen

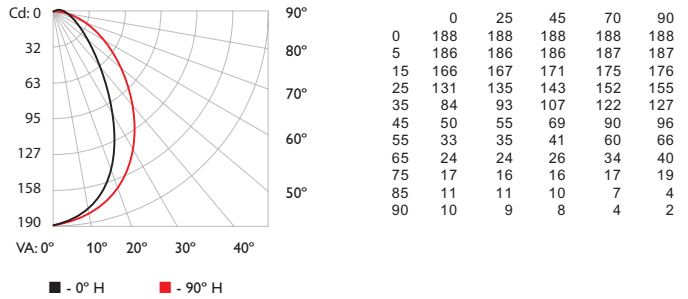
ZONE	LUMENS	%FIXT
0- 30	107.6	28.1
0- 40	173.9	45.4
0- 60	296.1	77.2
0- 90	375.4	97.9
60- 90	79.2	20.7
70-100	43.0	11.2
90-120	7.8	2.0
90-180	8.2	2.1
0-180	383.6	100.0

For lux multiply fc by 10.7

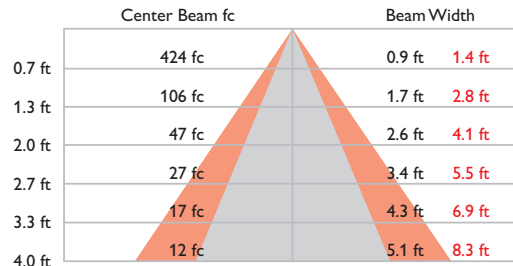
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
361	75.0 lm / W

### Polar Candela Distribution



### Illuminance at Distance



13.7 ft (4.2 m) Vert. Spread: 65.2°  
 1 fc maximum distance Horiz. Spread: 92.0°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																								
	80				70				50				30				10				0				
	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	1.18	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	0.97	0.97	0.97	0.97	0.97	0.97
	1	1.09	1.04	1.00	0.97	1.06	1.02	0.98	0.83	0.97	0.94	0.91	0.92	0.90	0.88	0.88	0.86	0.84	0.82	0.82	0.82	0.82	0.82	0.82	0.82
	2	1.00	0.92	0.86	0.81	0.97	0.90	0.85	0.72	0.86	0.81	0.77	0.82	0.79	0.75	0.79	0.76	0.73	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	3	0.92	0.82	0.75	0.69	0.89	0.81	0.74	0.63	0.77	0.71	0.67	0.74	0.69	0.65	0.71	0.67	0.64	0.61	0.61	0.61	0.61	0.61	0.61	0.61
	4	0.85	0.74	0.66	0.60	0.83	0.73	0.65	0.56	0.70	0.63	0.58	0.67	0.62	0.57	0.65	0.60	0.56	0.54	0.54	0.54	0.54	0.54	0.54	0.54
	5	0.79	0.67	0.59	0.53	0.77	0.66	0.58	0.50	0.63	0.57	0.52	0.61	0.55	0.51	0.59	0.54	0.50	0.48	0.48	0.48	0.48	0.48	0.48	0.48
	6	0.74	0.61	0.53	0.47	0.71	0.60	0.52	0.45	0.58	0.51	0.46	0.56	0.50	0.45	0.54	0.49	0.45	0.43	0.43	0.43	0.43	0.43	0.43	0.43
	7	0.69	0.56	0.48	0.42	0.67	0.55	0.48	0.40	0.53	0.47	0.42	0.52	0.46	0.41	0.50	0.45	0.41	0.39	0.39	0.39	0.39	0.39	0.39	0.39
	8	0.64	0.52	0.44	0.38	0.63	0.51	0.43	0.37	0.49	0.43	0.38	0.48	0.42	0.37	0.46	0.41	0.37	0.35	0.35	0.35	0.35	0.35	0.35	0.35
	9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.34	0.46	0.39	0.34	0.44	0.38	0.34	0.43	0.38	0.34	0.32	0.32	0.32	0.32	0.32	0.32	0.32
	10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.31	0.43	0.36	0.32	0.42	0.36	0.31	0.40	0.35	0.31	0.29	0.29	0.29	0.29	0.29	0.29	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	130.6	36.2
0- 40	196.5	54.4
0- 60	292.0	80.9
0- 90	348.3	96.5
60- 90	56.3	15.6
70-100	34.0	9.4
90-120	11.2	3.1
90-180	12.5	3.5
0-180	360.8	100.0

For lux multiply fc by 10.7

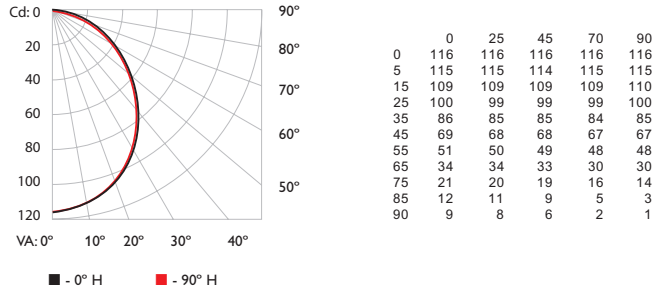
# Photometrics / eW Cove QLX Powercore, 2700 K, Low Power, 305 mm (12 in)

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).

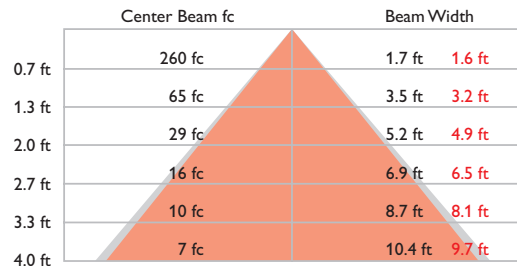
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
316	82.9 lm / W

### Polar Candela Distribution



### Illuminance at Distance



10.8 ft (3.3 m) Vert. Spread: 104.8°  
 1 fc maximum distance Horiz. Spread: 101.2°

### 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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
	1	1.08	1.03	0.99	0.95	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.87	0.85	0.83	0.81
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
	3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.66	0.61	0.68	0.64	0.60	0.57
	4	0.82	0.70	0.61	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
	5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43
	6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.37
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
	8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24

### Zonal Lumen

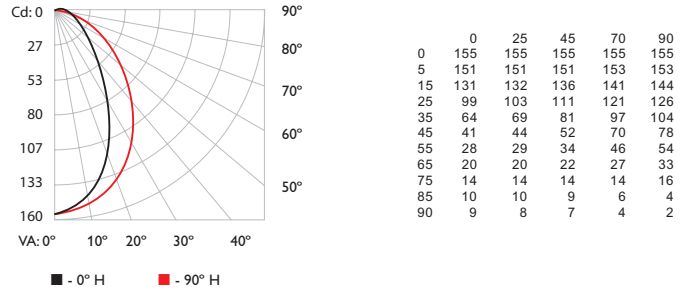
ZONE	LUMENS	%FIXT
0- 30	88.4	28.0
0- 40	142.8	45.2
0- 60	243.1	77.0
0- 90	308.9	97.8
60- 90	65.7	20.8
70-100	35.9	11.4
90-120	6.6	2.1
90-180	7.0	2.2
0-180	315.8	100.0

For lux multiply fc by 10.7

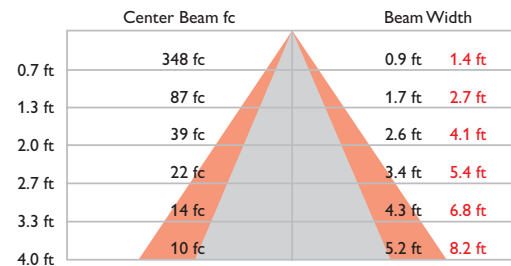
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
306	80.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



12.5 ft (3.8 m) Vert. Spread: 65.7°  
 1 fc maximum distance Horiz. Spread: 91.1°

### 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	0.96	1.09	1.09	1.09	1.03	1.03	1.03	0.98	0.98	0.98	0.96
	1	1.08	1.04	1.00	0.96	1.05	1.01	0.97	0.82	0.96	0.93	0.90	0.91	0.89	0.87	0.87	0.85	0.83	0.81
	2	0.99	0.92	0.85	0.80	0.96	0.89	0.84	0.71	0.85	0.80	0.76	0.81	0.77	0.74	0.78	0.75	0.72	0.69
	3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.62	0.76	0.70	0.66	0.73	0.68	0.64	0.70	0.66	0.62	0.60
	4	0.85	0.73	0.65	0.59	0.82	0.72	0.64	0.54	0.69	0.62	0.57	0.66	0.61	0.56	0.64	0.59	0.55	0.53
	5	0.78	0.66	0.58	0.52	0.76	0.65	0.57	0.48	0.63	0.56	0.51	0.60	0.54	0.50	0.58	0.53	0.49	0.47
	6	0.73	0.60	0.52	0.46	0.71	0.59	0.51	0.43	0.57	0.50	0.45	0.55	0.49	0.44	0.53	0.48	0.44	0.42
	7	0.68	0.55	0.47	0.41	0.66	0.54	0.47	0.39	0.53	0.46	0.41	0.51	0.45	0.40	0.49	0.44	0.40	0.38
	8	0.64	0.51	0.43	0.38	0.62	0.50	0.43	0.36	0.48	0.42	0.37	0.47	0.41	0.36	0.46	0.40	0.36	0.34
	9	0.60	0.47	0.39	0.34	0.58	0.46	0.39	0.33	0.45	0.38	0.34	0.44	0.38	0.33	0.42	0.37	0.33	0.31
	10	0.56	0.44	0.36	0.31	0.55	0.43	0.36	0.30	0.42	0.35	0.31	0.41	0.35	0.31	0.40	0.34	0.30	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	106.7	34.9
0- 40	160.9	52.7
0- 60	242.3	79.3
0- 90	293.0	95.9
60- 90	50.7	16.6
70-100	31.4	10.3
90-120	11.1	3.6
90-180	12.5	4.1
0-180	305.5	100.0

For lux multiply fc by 10.7

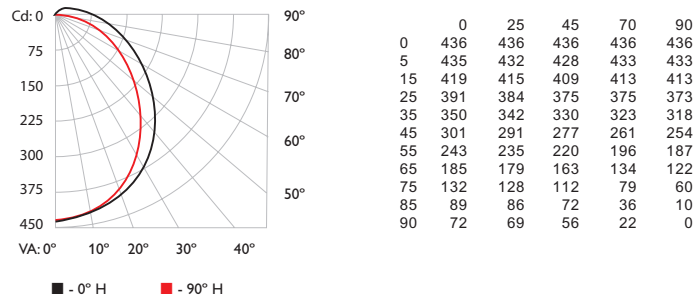
# Photometrics / eW Cove QLX Powercore, 2700 K, High Power, 1220 mm (48 in)

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).

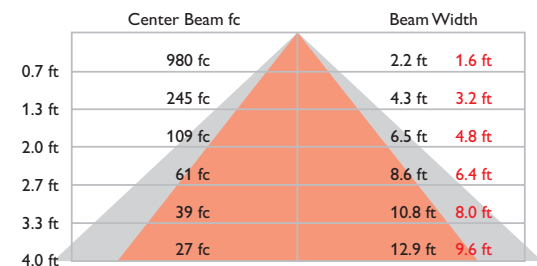
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1372	76.6 lm / W

### Polar Candela Distribution



### Illuminance at Distance



20.9 ft (6.4 m)   ■ Vert. Spread: 116.4°  
 1 fc maximum distance   ■ Horiz. Spread: 100.2°

### Coefficients Of Utilization - Zonal Cavity Method

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 1.17 1.17 1.17 1.17	1.14 1.14 1.14 0.93	1.07 1.07 1.07	1.02 1.02 1.02	0.96 0.96 0.96	0.93
	1 1.06 1.00 0.96 0.91	1.02 0.98 0.93 0.76	0.92 0.88 0.85	0.87 0.84 0.81	0.82 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 0.64	0.62
	3 0.87 0.76 0.68 0.61	0.84 0.74 0.66 0.53	0.70 0.63 0.58	0.66 0.61 0.56	0.63 0.58 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 0.41	0.51 0.45 0.40	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	0.38 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

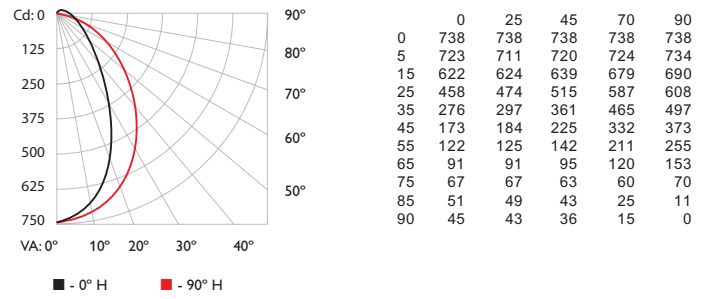
ZONE	LUMENS	%FIXT
0- 30	334.1	24.4
0- 40	542.8	39.6
0- 60	949.8	69.2
0- 90	1,282.5	93.5
60- 90	332.7	24.3
70-100	217.3	15.8
90-120	76.4	5.6
90-180	89.2	6.5
0-180	1,371.7	100.0

For lux multiply fc by 10.7

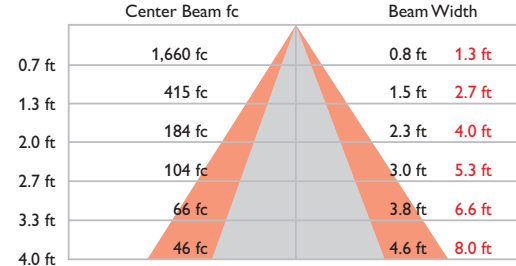
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1361	79.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



27.1 ft (8.3 m)   ■ Vert. Spread: 59.4°  
 1 fc maximum distance   ■ Horiz. Spread: 89.7°

### Coefficients Of Utilization - Zonal Cavity Method

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	0.97 0.97 0.97	0.94
	1 1.08 1.04 1.00 0.96	1.05 1.01 0.97 0.81	0.96 0.93 0.90	0.91 0.88 0.86	0.86 0.84 0.83	0.80
	2 0.99 0.92 0.86 0.80	0.96 0.89 0.84 0.70	0.85 0.80 0.76	0.81 0.77 0.74	0.77 0.74 0.71	0.69
	3 0.92 0.82 0.75 0.69	0.89 0.80 0.73 0.61	0.76 0.71 0.66	0.73 0.68 0.64	0.70 0.66 0.62	0.60
	4 0.85 0.74 0.66 0.60	0.82 0.72 0.65 0.54	0.69 0.63 0.58	0.66 0.61 0.56	0.63 0.59 0.55	0.53
	5 0.79 0.67 0.59 0.53	0.76 0.65 0.58 0.49	0.63 0.56 0.51	0.60 0.55 0.50	0.58 0.53 0.49	0.47
	6 0.73 0.61 0.53 0.47	0.71 0.60 0.52 0.44	0.57 0.51 0.46	0.55 0.49 0.45	0.53 0.48 0.44	0.42
	7 0.68 0.56 0.48 0.42	0.66 0.55 0.47 0.40	0.53 0.46 0.41	0.51 0.45 0.41	0.49 0.44 0.40	0.38
	8 0.64 0.52 0.44 0.38	0.62 0.51 0.43 0.36	0.49 0.42 0.37	0.47 0.41 0.37	0.46 0.40 0.36	0.35
	9 0.60 0.48 0.40 0.35	0.59 0.47 0.40 0.33	0.45 0.39 0.34	0.44 0.38 0.34	0.43 0.37 0.33	0.32
	10 0.57 0.44 0.37 0.32	0.55 0.44 0.37 0.31	0.42 0.36 0.32	0.41 0.35 0.31	0.40 0.35 0.31	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	491.0	36.1
0- 40	726.8	53.4
0- 60	1,070.4	78.7
0- 90	1,285.9	94.5
60- 90	215.5	15.8
70-100	137.6	10.1
90-120	60.9	4.5
90-180	75.1	5.5
0-180	1,361.0	100.0

For lux multiply fc by 10.7

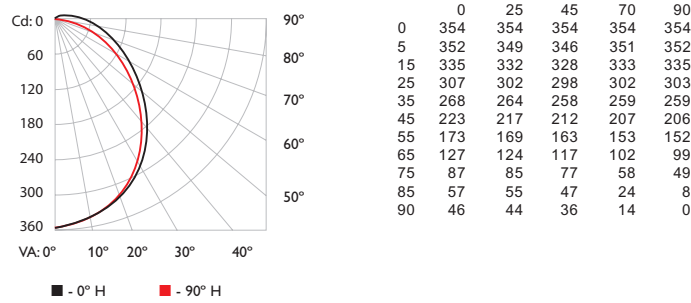
# Photometrics / eW Cove QLX Powercore, 2700 K, Low Power, 1220 mm (48 in)

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).

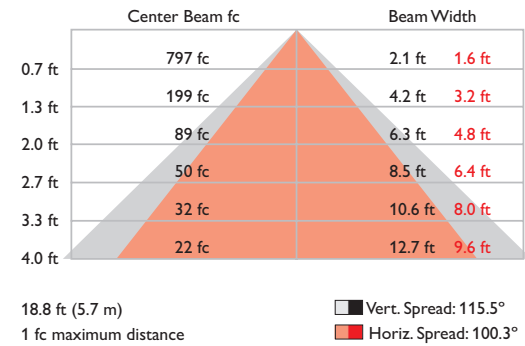
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1108	83.4 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	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	0.96	0.96	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
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	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
4	0.80	0.68	0.58	0.52	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
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
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	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
8	0.59	0.45	0.36	0.30	0.57	0.44	0.36	0.28	0.42	0.35	0.30	0.40	0.34	0.29	0.39	0.33	0.28	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	0.32	0.27	0.37	0.31	0.26	0.36	0.30	0.26	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	0.22	0.22	0.22	0.22

### Zonal Lumen

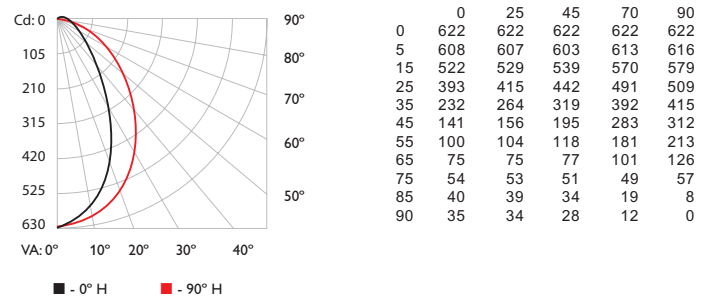
ZONE	LUMENS	%FIXT
0- 30	271.9	24.5
0- 40	441.6	39.8
0- 60	771.7	69.6
0- 90	1,039.3	93.8
60- 90	267.6	24.1
70-100	173.5	15.7
90-120	59.6	5.4
90-180	69.1	6.2
0-180	1,108.3	100.0

For lux multiply fc by 10.7

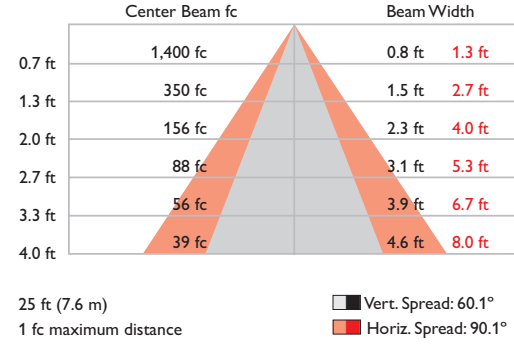
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1143	86.4 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	50	30	20	0
0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.95	1.08	1.08	1.08	1.03	1.03	1.03	0.97	0.97	0.97	0.95	0.95	0.95	0.95
1	1.08	1.04	1.00	0.96	1.05	1.01	0.98	0.82	0.96	0.93	0.90	0.91	0.89	0.87	0.87	0.85	0.83	0.81	0.81	0.81	0.81
2	1.00	0.92	0.86	0.81	0.97	0.90	0.84	0.71	0.86	0.81	0.77	0.82	0.78	0.74	0.78	0.75	0.72	0.70	0.70	0.70	0.70
3	0.92	0.82	0.75	0.69	0.89	0.80	0.74	0.62	0.77	0.71	0.66	0.74	0.69	0.65	0.70	0.66	0.63	0.61	0.61	0.61	0.61
4	0.85	0.74	0.66	0.60	0.83	0.73	0.65	0.55	0.70	0.63	0.58	0.67	0.61	0.57	0.64	0.59	0.56	0.53	0.53	0.53	0.53
5	0.79	0.67	0.59	0.53	0.77	0.66	0.58	0.49	0.63	0.57	0.52	0.61	0.55	0.51	0.59	0.54	0.50	0.48	0.48	0.48	0.48
6	0.74	0.61	0.53	0.47	0.71	0.60	0.53	0.44	0.58	0.51	0.46	0.56	0.50	0.45	0.54	0.49	0.45	0.43	0.43	0.43	0.43
7	0.69	0.56	0.48	0.43	0.67	0.55	0.48	0.40	0.53	0.47	0.42	0.52	0.46	0.41	0.50	0.45	0.40	0.39	0.39	0.39	0.39
8	0.64	0.52	0.44	0.39	0.63	0.51	0.44	0.37	0.49	0.43	0.38	0.48	0.42	0.37	0.46	0.41	0.37	0.35	0.35	0.35	0.35
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.34	0.46	0.39	0.35	0.44	0.39	0.34	0.43	0.38	0.34	0.32	0.32	0.32	0.32
10	0.57	0.45	0.37	0.32	0.56	0.44	0.37	0.31	0.43	0.36	0.32	0.42	0.36	0.32	0.40	0.35	0.31	0.30	0.30	0.30	0.30

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	419.3	36.7
0- 40	621.4	54.3
0- 60	910.6	79.6
0- 90	1,086.3	95.0
60- 90	175.7	15.4
70-100	110.0	9.6
90-120	47.0	4.1
90-180	57.0	5.0
0-180	1,143.3	100.0

For lux multiply fc by 10.7





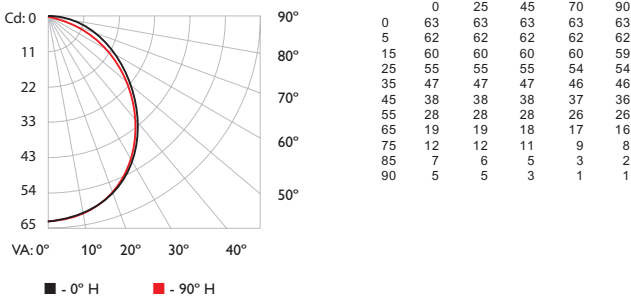
# Photometrics / eW Cove QLX Powercore, 3000 K, Low Power, 152 mm (6 in)

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).

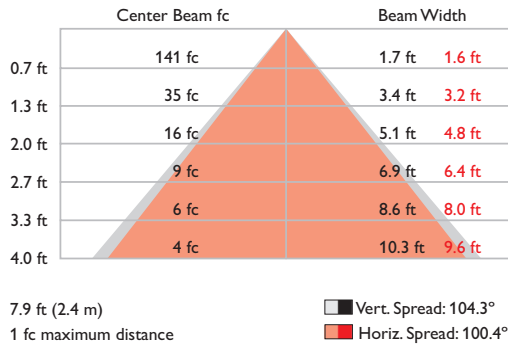
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
170	80.3 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	1.19	1.19	1.19	1.15	1.15	1.15	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.08	1.03	0.99	0.95	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.88	0.85	0.83	0.81
2	0.98	0.90	0.83	0.77	0.95	0.88	0.82	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
3	0.90	0.79	0.71	0.65	0.87	0.77	0.70	0.59	0.74	0.69	0.62	0.71	0.66	0.61	0.68	0.64	0.60	0.57
4	0.82	0.70	0.62	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.52	0.49
5	0.76	0.63	0.54	0.48	0.74	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.50	0.45	0.43
6	0.70	0.57	0.48	0.42	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38
7	0.65	0.52	0.43	0.37	0.63	0.51	0.43	0.35	0.49	0.42	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.44	0.37	0.32	0.42	0.36	0.32	0.30
9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24

### Zonal Lumen

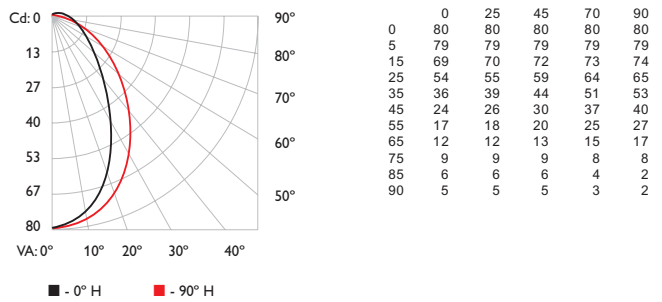
ZONE	LUMENS	%FIXT
0- 30	47.8	28.2
0- 40	77.1	45.5
0- 60	130.7	77.1
0- 90	165.6	97.7
60- 90	34.9	20.6
70-100	19.1	11.2
90-120	3.7	2.2
90-180	3.9	2.3
0-180	169.5	100.0

For lux multiply fc by 10.7

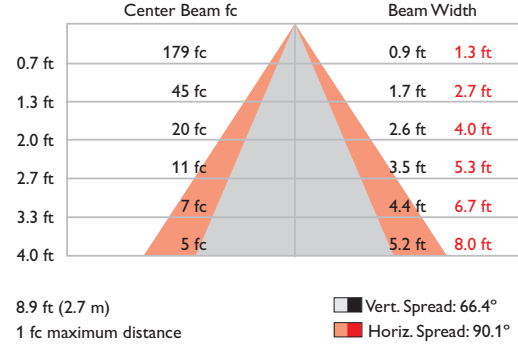
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
163	77.8 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	1.18	1.18	1.18	1.14	1.14	1.14	0.95	1.08	1.08	1.08	1.02	1.02	1.02	0.97	0.97	0.97	0.95
1	1.08	1.03	0.99	0.95	1.04	1.00	0.96	0.80	0.95	0.92	0.89	0.90	0.88	0.85	0.86	0.84	0.82	0.79
2	0.99	0.91	0.84	0.79	0.96	0.88	0.83	0.69	0.84	0.79	0.75	0.80	0.76	0.72	0.76	0.73	0.70	0.68
3	0.91	0.81	0.73	0.67	0.88	0.79	0.72	0.60	0.75	0.69	0.64	0.72	0.67	0.62	0.69	0.64	0.61	0.58
4	0.84	0.72	0.64	0.58	0.81	0.71	0.63	0.53	0.68	0.61	0.56	0.65	0.59	0.55	0.62	0.57	0.53	0.51
5	0.78	0.65	0.57	0.51	0.75	0.64	0.56	0.47	0.61	0.55	0.49	0.59	0.53	0.48	0.57	0.51	0.47	0.45
6	0.72	0.60	0.51	0.45	0.70	0.58	0.50	0.42	0.56	0.49	0.44	0.54	0.48	0.43	0.52	0.47	0.42	0.40
7	0.67	0.54	0.46	0.40	0.65	0.53	0.46	0.38	0.51	0.44	0.39	0.50	0.43	0.39	0.48	0.42	0.38	0.36
8	0.63	0.50	0.42	0.37	0.61	0.49	0.42	0.34	0.47	0.41	0.36	0.46	0.40	0.35	0.44	0.39	0.35	0.33
9	0.59	0.46	0.39	0.33	0.57	0.46	0.38	0.32	0.44	0.37	0.33	0.43	0.37	0.32	0.41	0.36	0.32	0.30
10	0.56	0.43	0.35	0.31	0.54	0.42	0.35	0.29	0.41	0.34	0.30	0.40	0.34	0.30	0.39	0.33	0.29	0.28

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	54.7	33.5
0- 40	82.6	50.6
0- 60	125.6	76.9
0- 90	154.5	94.6
60- 90	28.8	17.7
70-100	18.8	11.5
90-120	7.6	4.7
90-180	8.8	5.4
0-180	163.3	100.0

For lux multiply fc by 10.7

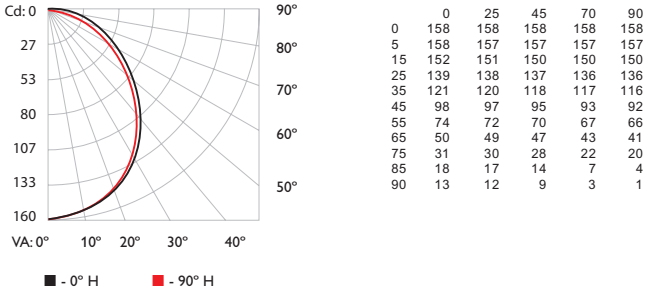
# Photometrics / eW Cove QLX Powercore, 3000 K, High Power, 305 mm (12 in)

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).

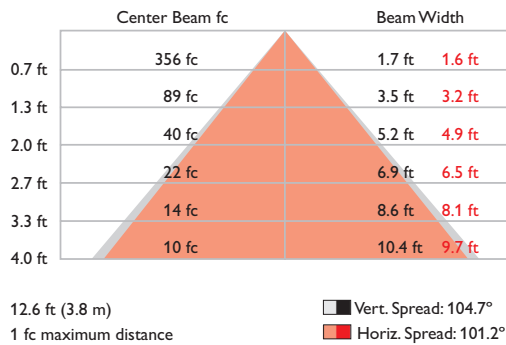
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
432	90.3 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																		
	80				70				50				30						
RW %:	70	50	30	0	70	50	30	0	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	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.08	1.03	0.99	0.95	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.88	0.85	0.83	0.81	0.81
2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68	0.68
3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.66	0.61	0.68	0.64	0.60	0.57	0.57
4	0.82	0.70	0.62	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49	0.49
5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43	0.43
6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38	0.38
7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33	0.33
8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30	0.30
9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27	0.27
10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24	0.24

### Zonal Lumen

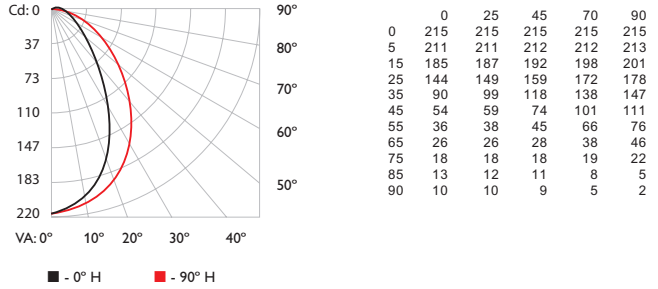
ZONE	LUMENS	%FIXT
0- 30	120.9	28.0
0- 40	195.2	45.3
0- 60	332.3	77.0
0- 90	422.0	97.8
60- 90	89.6	20.8
70-100	49.0	11.4
90-120	9.0	2.1
90-180	9.5	2.2
0-180	431.5	100.0

For lux multiply fc by 10.7

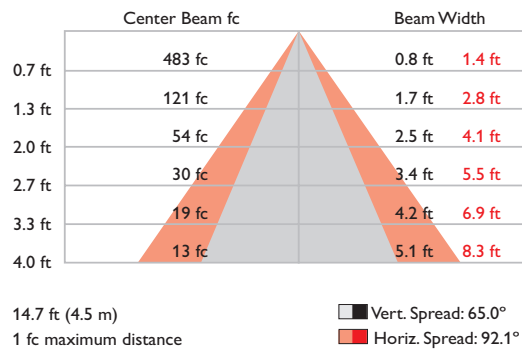
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
411	85.9 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																	
	80				70				50				30					
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	1.15	1.15	1.15	0.96	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.96
1	1.09	1.04	1.00	0.97	1.06	1.02	0.98	0.83	0.97	0.94	0.91	0.92	0.90	0.88	0.88	0.86	0.84	0.82
2	1.00	0.92	0.86	0.81	0.97	0.90	0.84	0.72	0.86	0.81	0.77	0.82	0.78	0.75	0.79	0.76	0.73	0.71
3	0.92	0.82	0.75	0.69	0.89	0.81	0.74	0.63	0.77	0.71	0.67	0.74	0.69	0.65	0.71	0.67	0.64	0.61
4	0.85	0.74	0.66	0.60	0.83	0.73	0.65	0.55	0.70	0.63	0.58	0.67	0.62	0.57	0.65	0.60	0.56	0.54
5	0.79	0.67	0.59	0.53	0.77	0.66	0.58	0.49	0.63	0.57	0.52	0.61	0.55	0.51	0.59	0.54	0.50	0.48
6	0.74	0.61	0.53	0.47	0.71	0.60	0.52	0.44	0.58	0.51	0.46	0.56	0.50	0.45	0.54	0.49	0.45	0.43
7	0.69	0.56	0.48	0.42	0.67	0.55	0.47	0.40	0.53	0.47	0.42	0.52	0.46	0.41	0.50	0.45	0.41	0.39
8	0.64	0.52	0.44	0.38	0.63	0.51	0.43	0.37	0.49	0.43	0.38	0.48	0.42	0.37	0.46	0.41	0.37	0.35
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.34	0.46	0.39	0.34	0.44	0.38	0.34	0.43	0.38	0.34	0.32
10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.31	0.43	0.36	0.32	0.41	0.36	0.31	0.40	0.35	0.31	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	148.9	36.2
0- 40	223.9	54.4
0- 60	332.8	80.8
0- 90	397.1	96.5
60- 90	64.3	15.6
70-100	38.9	9.4
90-120	13.0	3.2
90-180	14.6	3.5
0-180	411.7	100.0

For lux multiply fc by 10.7

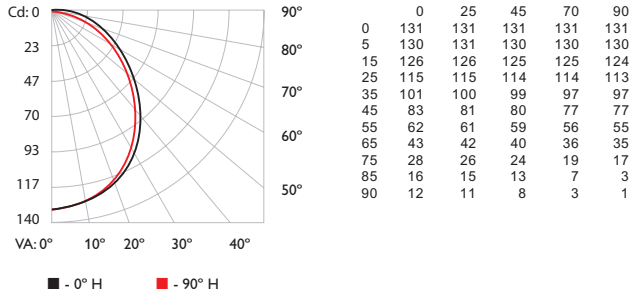
# Photometrics / eW Cove QLX Powercore, 3000 K, Low Power, 305 mm (12 in)

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).

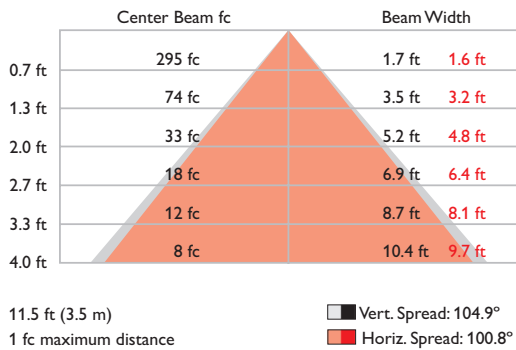
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
359	92.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### 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	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
	1	1.08	1.03	0.98	0.94	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.87	0.85	0.83	0.81
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.78	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.67
	3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.67	0.62	0.71	0.65	0.61	0.68	0.63	0.59	0.57
	4	0.82	0.70	0.61	0.55	0.80	0.69	0.60	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
	5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.44	0.59	0.52	0.46	0.57	0.50	0.45	0.55	0.49	0.45	0.43
	6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.39	0.37
	7	0.65	0.51	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.40	0.36	0.46	0.40	0.35	0.33
	8	0.60	0.47	0.39	0.33	0.59	0.46	0.38	0.31	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.28	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24

### Zonal Lumen

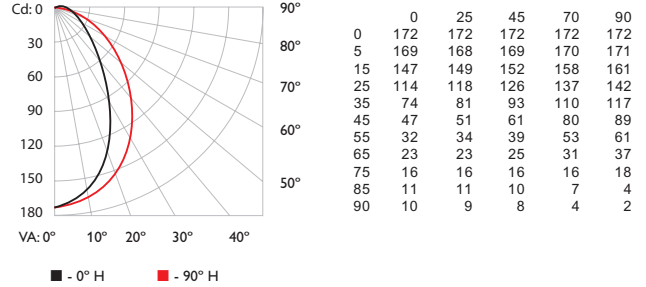
ZONE	LUMENS	%FIXT
0- 30	100.0	27.9
0- 40	161.5	45.0
0- 60	274.7	76.6
0- 90	350.2	97.7
60- 90	75.5	21.1
70-100	41.8	11.7
90-120	7.8	2.2
90-180	8.3	2.3
0-180	358.5	100.0

For lux multiply fc by 10.7

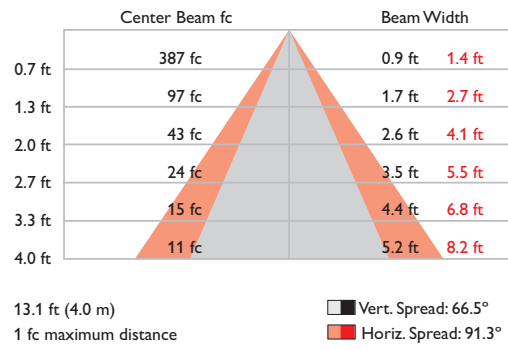
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
341	90.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### 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	0.96	1.09	1.09	1.09	1.03	1.03	1.03	0.98	0.98	0.98	0.96
	1	1.08	1.04	1.00	0.96	1.05	1.01	0.97	0.82	0.96	0.93	0.90	0.92	0.89	0.87	0.87	0.86	0.84	0.81
	2	0.99	0.92	0.85	0.80	0.97	0.90	0.84	0.71	0.85	0.81	0.76	0.82	0.78	0.74	0.78	0.75	0.72	0.70
	3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.62	0.77	0.71	0.66	0.73	0.68	0.64	0.70	0.66	0.63	0.60
	4	0.85	0.73	0.65	0.59	0.82	0.72	0.64	0.54	0.69	0.62	0.57	0.66	0.61	0.56	0.64	0.59	0.55	0.53
	5	0.78	0.66	0.58	0.52	0.76	0.65	0.57	0.48	0.63	0.56	0.51	0.60	0.54	0.50	0.58	0.53	0.49	0.47
	6	0.73	0.61	0.52	0.46	0.71	0.59	0.52	0.44	0.57	0.50	0.45	0.55	0.49	0.44	0.53	0.48	0.44	0.42
	7	0.68	0.55	0.47	0.41	0.66	0.54	0.47	0.39	0.53	0.46	0.41	0.51	0.45	0.40	0.49	0.44	0.40	0.38
	8	0.64	0.51	0.43	0.38	0.62	0.50	0.43	0.36	0.49	0.42	0.37	0.47	0.41	0.36	0.46	0.40	0.36	0.34
	9	0.60	0.47	0.39	0.34	0.58	0.46	0.39	0.33	0.45	0.38	0.34	0.44	0.38	0.33	0.42	0.37	0.33	0.31
	10	0.56	0.44	0.36	0.31	0.55	0.43	0.36	0.30	0.42	0.35	0.31	0.41	0.35	0.31	0.40	0.34	0.30	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	119.1	35.0
0- 40	180.0	52.8
0- 60	271.3	79.6
0- 90	327.4	96.1
60- 90	56.1	16.5
70-100	34.5	10.1
90-120	11.9	3.5
90-180	13.4	3.9
0-180	340.8	100.0

For lux multiply fc by 10.7

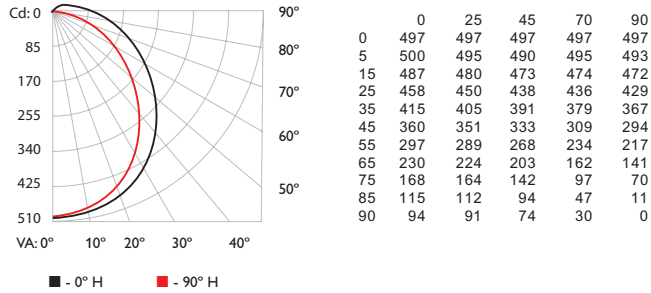
# Photometrics / eW Cove QLX Powercore, 3000 K, High Power, 1220 mm (48 in)

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).

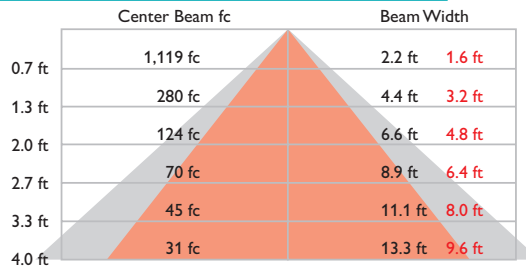
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1575	87.9 lm / W

### Polar Candela Distribution



### Illuminance at Distance



22.3 ft (6.8 m)   ■ Vert. Spread: 117.9°  
1 fc maximum distance   ■ Horiz. Spread: 100.3°

### 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	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.93
	1	1.06	1.00	0.96	0.91	1.02	0.97	0.93	0.76	0.92	0.88	0.85	0.87	0.84	0.81	0.82	0.80	0.78	0.75
	2	0.96	0.87	0.80	0.73	0.92	0.84	0.78	0.63	0.80	0.74	0.69	0.75	0.71	0.67	0.71	0.68	0.64	0.62
	3	0.87	0.76	0.68	0.61	0.84	0.74	0.66	0.53	0.70	0.63	0.58	0.66	0.61	0.56	0.63	0.58	0.54	0.52
	4	0.80	0.67	0.58	0.51	0.77	0.65	0.57	0.46	0.62	0.55	0.49	0.59	0.53	0.48	0.56	0.51	0.46	0.44
	5	0.73	0.60	0.51	0.44	0.71	0.59	0.50	0.40	0.56	0.48	0.42	0.53	0.46	0.41	0.50	0.45	0.40	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	0.35	0.33
	7	0.63	0.49	0.40	0.34	0.61	0.48	0.39	0.31	0.46	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.31	0.29
	8	0.58	0.45	0.36	0.30	0.56	0.44	0.36	0.28	0.42	0.34	0.29	0.40	0.33	0.29	0.38	0.33	0.28	0.26
	9	0.54	0.41	0.33	0.27	0.53	0.40	0.32	0.25	0.38	0.31	0.26	0.37	0.30	0.26	0.35	0.30	0.25	0.24
	10	0.51	0.38	0.30	0.25	0.49	0.37	0.29	0.23	0.36	0.29	0.24	0.34	0.28	0.24	0.33	0.27	0.23	0.21

### Zonal Lumen

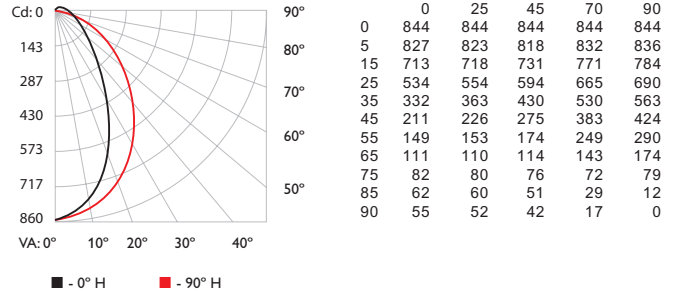
ZONE	LUMENS	%FIXT
0 - 30	381.7	24.2
0 - 40	620.4	39.4
0 - 60	1,086.7	69.0
0 - 90	1,470.4	93.3
60 - 90	383.7	24.4
70 - 100	251.6	16.0
90 - 120	89.5	5.7
90 - 180	104.8	6.7
0 - 180	1,575.2	100.0

For lux multiply fc by 10.7

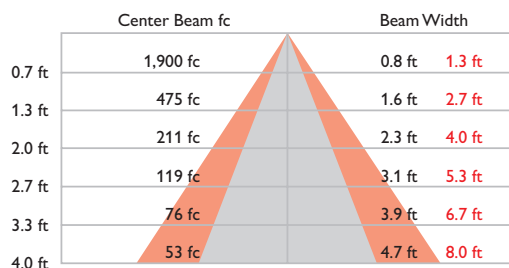
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1604	90.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



29 ft (8.8 m)   ■ Vert. Spread: 60.7°  
1 fc maximum distance   ■ Horiz. Spread: 90.1°

### 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	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	0.97	0.97	0.97	0.94
	1	1.08	1.03	0.99	0.96	1.05	1.01	0.97	0.81	0.95	0.92	0.90	0.91	0.88	0.86	0.86	0.84	0.82	0.80
	2	0.99	0.92	0.85	0.80	0.96	0.89	0.83	0.70	0.85	0.80	0.76	0.81	0.77	0.73	0.77	0.74	0.71	0.69
	3	0.91	0.82	0.74	0.68	0.89	0.80	0.73	0.61	0.76	0.70	0.65	0.73	0.68	0.64	0.69	0.65	0.62	0.60
	4	0.85	0.74	0.65	0.59	0.82	0.72	0.64	0.54	0.69	0.62	0.57	0.66	0.60	0.56	0.63	0.58	0.55	0.52
	5	0.78	0.67	0.58	0.52	0.76	0.65	0.57	0.48	0.62	0.56	0.51	0.60	0.54	0.50	0.58	0.53	0.49	0.46
	6	0.73	0.61	0.52	0.47	0.71	0.59	0.52	0.43	0.57	0.50	0.45	0.55	0.49	0.44	0.53	0.48	0.44	0.42
	7	0.68	0.56	0.48	0.42	0.66	0.55	0.47	0.39	0.53	0.46	0.41	0.51	0.45	0.40	0.49	0.44	0.40	0.38
	8	0.64	0.51	0.43	0.38	0.62	0.50	0.43	0.36	0.49	0.42	0.37	0.47	0.41	0.37	0.45	0.40	0.36	0.34
	9	0.60	0.47	0.40	0.35	0.58	0.47	0.39	0.33	0.45	0.39	0.34	0.44	0.38	0.33	0.42	0.37	0.33	0.31
	10	0.56	0.44	0.37	0.32	0.55	0.43	0.36	0.30	0.42	0.36	0.31	0.41	0.35	0.31	0.40	0.34	0.30	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0 - 30	569.6	35.5
0 - 40	846.8	52.8
0 - 60	1,255.1	78.3
0 - 90	1,513.3	94.4
60 - 90	258.2	16.1
70 - 100	165.3	10.3
90 - 120	72.8	4.5
90 - 180	90.5	5.6
0 - 180	1,603.8	100.0

For lux multiply fc by 10.7

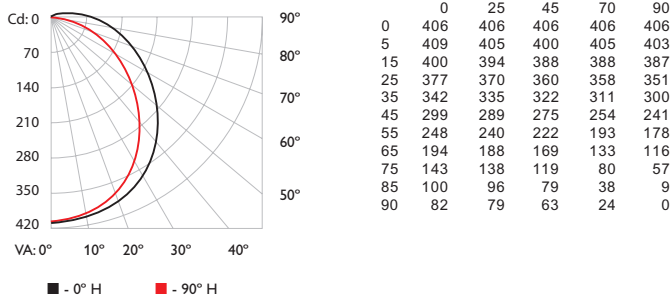
# Photometrics / eW Cove QLX Powercore, 3000 K, Low Power, 1220 mm (48 in)

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).

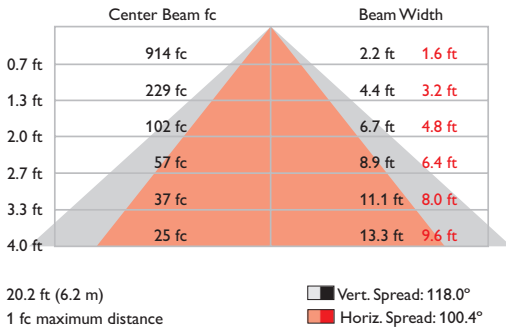
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1292	94.6 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	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.93
1	1.06	1.00	0.95	0.91	1.02	0.97	0.93	0.76	0.92	0.88	0.85	0.87	0.84	0.81	0.82	0.80	0.77	0.75	
2	0.96	0.87	0.80	0.73	0.92	0.84	0.78	0.63	0.80	0.74	0.69	0.75	0.71	0.67	0.71	0.68	0.64	0.62	
3	0.87	0.76	0.67	0.61	0.84	0.74	0.66	0.53	0.70	0.63	0.58	0.66	0.61	0.56	0.63	0.58	0.54	0.51	
4	0.80	0.67	0.58	0.51	0.77	0.65	0.57	0.46	0.62	0.55	0.49	0.56	0.53	0.48	0.56	0.51	0.46	0.44	
5	0.73	0.60	0.51	0.44	0.71	0.58	0.50	0.40	0.56	0.48	0.42	0.53	0.46	0.41	0.50	0.45	0.40	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	0.35	0.33	
7	0.63	0.49	0.40	0.34	0.60	0.48	0.39	0.31	0.46	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.31	0.29	
8	0.58	0.45	0.36	0.30	0.56	0.44	0.35	0.28	0.42	0.34	0.29	0.40	0.33	0.29	0.38	0.32	0.28	0.26	
9	0.54	0.41	0.33	0.27	0.53	0.40	0.32	0.25	0.38	0.31	0.26	0.37	0.30	0.26	0.35	0.30	0.25	0.23	
10	0.51	0.38	0.30	0.25	0.49	0.37	0.29	0.23	0.36	0.29	0.24	0.34	0.28	0.23	0.33	0.27	0.23	0.21	

### Zonal Lumen

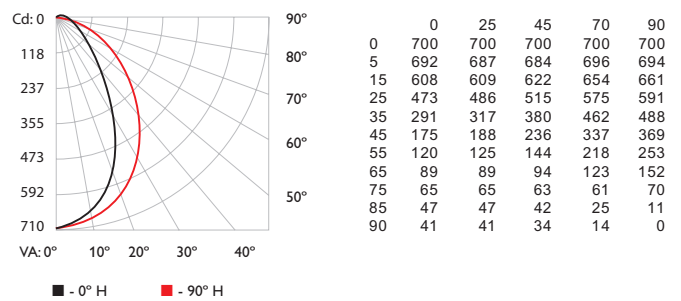
ZONE	LUMENS	%FIXT
0- 30	311.9	24.1
0- 40	507.0	39.2
0- 60	888.2	68.8
0- 90	1,203.9	93.2
60- 90	315.7	24.4
70-100	208.1	16.1
90-120	75.0	5.8
90-180	87.9	6.8
0-180	1,291.8	100.0

For lux multiply fc by 10.7

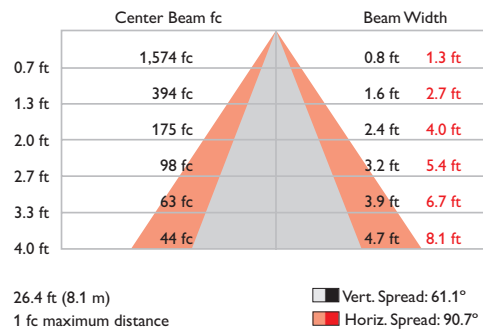
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1309	98.4 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	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.95	1.08	1.08	1.08	1.03	1.03	1.03	0.97	0.97	0.97	0.95
1	1.08	1.04	1.00	0.96	1.05	1.01	0.97	0.81	0.96	0.93	0.90	0.91	0.89	0.87	0.87	0.85	0.83	0.81	
2	1.00	0.92	0.86	0.81	0.97	0.90	0.84	0.71	0.85	0.81	0.77	0.81	0.78	0.74	0.78	0.75	0.72	0.69	
3	0.92	0.82	0.75	0.69	0.89	0.80	0.73	0.62	0.77	0.71	0.66	0.73	0.68	0.64	0.70	0.66	0.63	0.60	
4	0.85	0.74	0.66	0.60	0.82	0.72	0.65	0.55	0.69	0.63	0.58	0.66	0.61	0.57	0.64	0.59	0.55	0.53	
5	0.79	0.67	0.59	0.53	0.76	0.66	0.58	0.49	0.63	0.56	0.51	0.61	0.55	0.50	0.58	0.53	0.49	0.47	
6	0.73	0.61	0.53	0.47	0.71	0.60	0.52	0.44	0.58	0.51	0.46	0.56	0.50	0.45	0.54	0.48	0.44	0.42	
7	0.69	0.56	0.48	0.42	0.67	0.55	0.47	0.40	0.53	0.46	0.41	0.51	0.45	0.41	0.50	0.44	0.40	0.38	
8	0.64	0.52	0.44	0.38	0.62	0.51	0.43	0.36	0.49	0.42	0.38	0.48	0.42	0.37	0.46	0.41	0.37	0.35	
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.33	0.46	0.39	0.34	0.44	0.38	0.34	0.43	0.38	0.34	0.32	
10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.31	0.43	0.36	0.32	0.41	0.35	0.31	0.40	0.35	0.31	0.29	

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	474.2	36.2
0- 40	705.3	53.9
0- 60	1,038.4	79.3
0- 90	1,241.9	94.9
60- 90	203.5	15.5
70-100	127.7	9.8
90-120	54.4	4.2
90-180	66.8	5.1
0-180	1,308.8	100.0

For lux multiply fc by 10.7

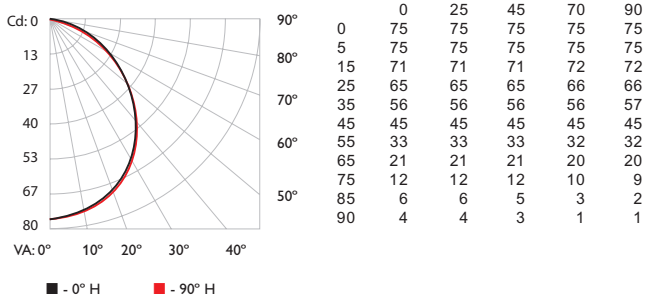
# Photometrics / eW Cove QLX Powercore, 3500 K, High Power, 152 mm (6 in)

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
204	78.4 lm / W

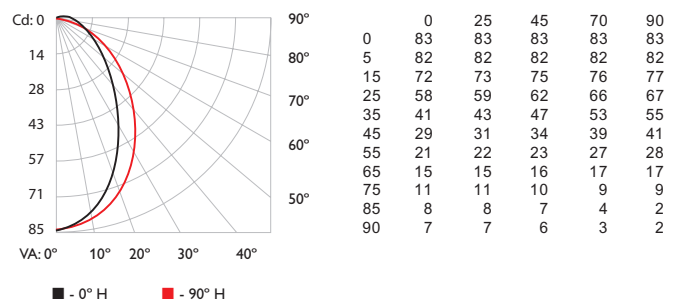
### Polar Candela Distribution



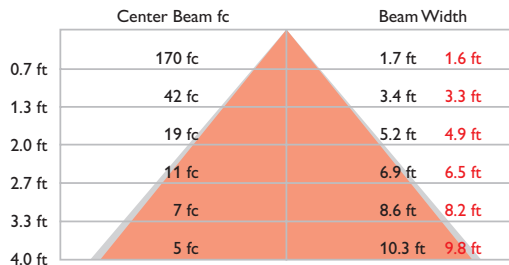
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
183	70.0 lm / W

### Polar Candela Distribution

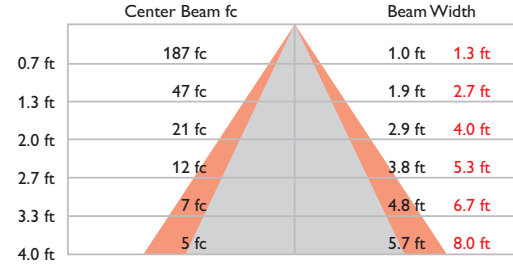


### Illuminance at Distance



8.7 ft (2.7 m) Vert. Spread: 104.5°  
1 fc maximum distance Horiz. Spread: 101.7°

### Illuminance at Distance



9.1 ft (2.7 m) Vert. Spread: 71.4°  
1 fc maximum distance Horiz. Spread: 89.9°

### 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:	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.05	1.00	1.00	1.00	1.00	0.98	1.00	1.00	1.00	0.98
1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.82	0.96	0.93	0.90	0.82	0.88	0.86	0.84	0.82	0.88	0.86	0.84	0.82	0.88	0.86	0.84	0.82
2	0.98	0.90	0.83	0.78	0.96	0.88	0.82	0.70	0.84	0.79	0.75	0.61	0.81	0.76	0.73	0.77	0.77	0.74	0.71	0.68	0.77	0.74	0.71	0.68
3	0.90	0.80	0.71	0.65	0.87	0.78	0.70	0.60	0.75	0.68	0.63	0.51	0.71	0.66	0.61	0.69	0.69	0.64	0.60	0.58	0.69	0.64	0.60	0.58
4	0.83	0.71	0.62	0.55	0.80	0.69	0.61	0.52	0.66	0.59	0.54	0.44	0.64	0.58	0.53	0.61	0.61	0.56	0.52	0.50	0.61	0.56	0.52	0.50
5	0.76	0.63	0.54	0.48	0.74	0.62	0.54	0.45	0.60	0.52	0.47	0.38	0.58	0.51	0.46	0.55	0.55	0.50	0.45	0.43	0.55	0.50	0.45	0.43
6	0.70	0.57	0.48	0.42	0.68	0.56	0.48	0.40	0.54	0.47	0.41	0.33	0.52	0.46	0.41	0.50	0.50	0.45	0.40	0.38	0.50	0.45	0.40	0.38
7	0.65	0.52	0.43	0.37	0.63	0.51	0.43	0.35	0.49	0.42	0.36	0.29	0.48	0.41	0.36	0.46	0.46	0.40	0.36	0.34	0.46	0.40	0.36	0.34
8	0.61	0.47	0.39	0.33	0.59	0.47	0.39	0.32	0.45	0.38	0.33	0.27	0.44	0.37	0.32	0.42	0.42	0.36	0.32	0.30	0.42	0.36	0.32	0.30
9	0.57	0.44	0.35	0.30	0.55	0.43	0.35	0.29	0.42	0.34	0.30	0.24	0.40	0.34	0.29	0.39	0.39	0.33	0.29	0.27	0.39	0.33	0.29	0.27
10	0.53	0.40	0.32	0.27	0.52	0.40	0.32	0.26	0.38	0.32	0.27	0.22	0.37	0.31	0.27	0.36	0.36	0.31	0.26	0.25	0.36	0.31	0.26	0.25

### 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:	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	1.02	0.96	0.96	0.96	0.96	0.94	0.96	0.96	0.96	0.94
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	0.87	0.84	0.84	0.85	0.85	0.83	0.81	0.78	0.85	0.83	0.81	0.78
2	0.98	0.90	0.83	0.78	0.95	0.87	0.81	0.67	0.83	0.78	0.74	0.79	0.75	0.71	0.71	0.75	0.75	0.72	0.69	0.66	0.75	0.72	0.69	0.66
3	0.90	0.80	0.72	0.66	0.87	0.78	0.70	0.58	0.74	0.68	0.63	0.70	0.65	0.61	0.61	0.67	0.67	0.63	0.59	0.57	0.67	0.63	0.59	0.57
4	0.83	0.71	0.63	0.56	0.80	0.70	0.62	0.51	0.66	0.60	0.54	0.63	0.58	0.53	0.53	0.61	0.61	0.56	0.52	0.49	0.61	0.56	0.52	0.49
5	0.77	0.64	0.56	0.49	0.74	0.63	0.55	0.45	0.60	0.53	0.48	0.57	0.51	0.47	0.47	0.55	0.55	0.50	0.46	0.43	0.55	0.50	0.46	0.43
6	0.71	0.58	0.50	0.44	0.69	0.57	0.49	0.40	0.55	0.48	0.42	0.52	0.46	0.42	0.42	0.50	0.50	0.45	0.41	0.39	0.50	0.45	0.41	0.39
7	0.66	0.53	0.45	0.39	0.64	0.52	0.44	0.36	0.50	0.43	0.38	0.48	0.42	0.37	0.37	0.46	0.46	0.41	0.37	0.35	0.46	0.41	0.37	0.35
8	0.62	0.49	0.41	0.35	0.60	0.48	0.40	0.33	0.46	0.39	0.34	0.45	0.38	0.34	0.34	0.43	0.43	0.37	0.33	0.31	0.43	0.37	0.33	0.31
9	0.58	0.45	0.37	0.32	0.56	0.44	0.37	0.30	0.43	0.36	0.31	0.41	0.35	0.31	0.31	0.40	0.40	0.34	0.30	0.29	0.40	0.34	0.30	0.29
10	0.55	0.42	0.34	0.29	0.53	0.41	0.34	0.28	0.40	0.33	0.29	0.38	0.33	0.28	0.28	0.37	0.37	0.32	0.28	0.26	0.37	0.32	0.28	0.26

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	57.8	28.3
0- 40	93.4	45.8
0- 60	159.0	78.0
0- 90	199.7	97.9
60- 90	40.7	20.0
70-100	21.5	10.5
90-120	3.9	1.9
90-180	4.2	2.1
0-180	203.8	100.0

For lux multiply fc by 10.7

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	57.8	31.6
0- 40	88.2	48.1
0- 60	137.3	74.9
0- 90	172.1	93.9
60- 90	34.8	19.0
70-100	23.2	12.6
90-120	9.5	5.2
90-180	11.2	6.1
0-180	183.3	100.0

For lux multiply fc by 10.7

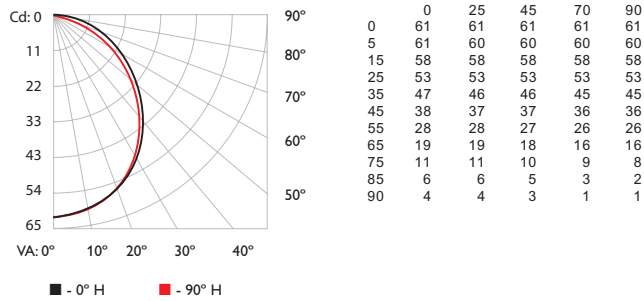
# Photometrics / eW Cove QLX Powercore, 3500 K, Low Power, 152 mm (6 in)

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).

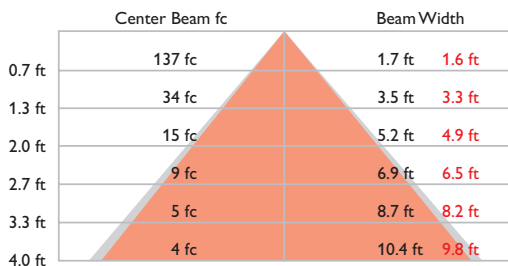
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
165	79.3 lm / W

### Polar Candela Distribution



### Illuminance at Distance



7.8 ft (2.4 m) Vert. Spread: 104.9°  
1 fc maximum distance Horiz. Spread: 101.5°

### 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	0			
RCR:																		
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.82	0.96	0.93	0.9	0.92	0.89	0.87	0.88	0.86	0.84	0.81
2	0.98	0.90	0.83	0.78	0.96	0.88	0.82	0.69	0.84	0.79	0.74	0.81	0.76	0.72	0.77	0.74	0.70	0.68
3	0.90	0.79	0.71	0.65	0.87	0.78	0.70	0.59	0.74	0.68	0.63	0.71	0.66	0.61	0.69	0.64	0.60	0.58
4	0.82	0.71	0.62	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.54	0.64	0.58	0.53	0.61	0.56	0.52	0.50
5	0.76	0.63	0.54	0.48	0.74	0.62	0.54	0.45	0.60	0.52	0.47	0.57	0.51	0.46	0.55	0.50	0.45	0.43
6	0.70	0.57	0.48	0.42	0.68	0.56	0.48	0.40	0.54	0.47	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38
7	0.65	0.52	0.43	0.37	0.63	0.51	0.43	0.35	0.49	0.42	0.36	0.48	0.41	0.36	0.46	0.40	0.36	0.34
8	0.61	0.47	0.39	0.33	0.59	0.47	0.39	0.32	0.45	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.30
9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.53	0.40	0.32	0.27	0.52	0.40	0.32	0.26	0.38	0.32	0.27	0.37	0.31	0.27	0.36	0.31	0.26	0.25

### Zonal Lumen

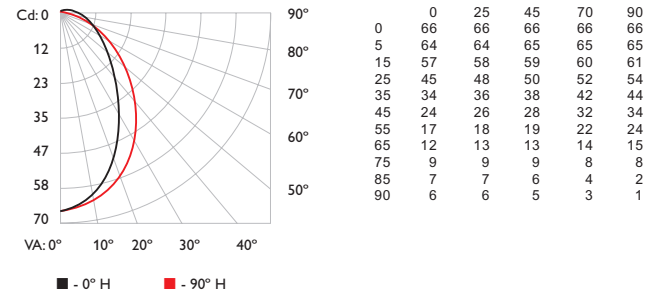
ZONE	LUMENS	%FIXT
0- 30	46.6	28.2
0- 40	75.4	45.7
0- 60	128.2	77.7
0- 90	161.5	97.8
60- 90	33.3	20.2
70-100	17.8	10.8
90-120	3.3	2.0
90-180	3.6	2.2
0-180	165.0	100.0

For lux multiply fc by 10.7

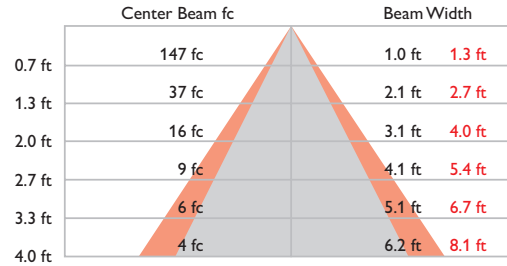
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
149	72.0 lm / W

### Polar Candela Distribution



### Illuminance at Distance



8.1 ft (2.5 m) Vert. Spread: 75.3°  
1 fc maximum distance Horiz. Spread: 90.5°

### 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	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	1.07	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	0.85	0.82	0.81	0.78
2	0.98	0.90	0.83	0.77	0.95	0.87	0.81	0.67	0.83	0.78	0.73	0.79	0.75	0.71	0.75	0.71	0.68	0.66
3	0.90	0.80	0.72	0.65	0.87	0.78	0.70	0.58	0.74	0.68	0.62	0.70	0.65	0.61	0.67	0.63	0.59	0.57
4	0.83	0.71	0.63	0.56	0.80	0.69	0.62	0.51	0.66	0.59	0.54	0.63	0.57	0.53	0.60	0.56	0.51	0.49
5	0.76	0.64	0.55	0.49	0.74	0.63	0.55	0.45	0.60	0.53	0.47	0.57	0.51	0.46	0.55	0.50	0.45	0.43
6	0.71	0.58	0.50	0.43	0.69	0.57	0.49	0.40	0.54	0.47	0.42	0.52	0.46	0.41	0.50	0.45	0.40	0.38
7	0.66	0.53	0.45	0.39	0.64	0.52	0.44	0.36	0.50	0.43	0.38	0.48	0.42	0.37	0.46	0.41	0.36	0.34
8	0.62	0.49	0.40	0.35	0.60	0.48	0.40	0.33	0.46	0.39	0.34	0.44	0.38	0.33	0.43	0.37	0.33	0.31
9	0.58	0.45	0.37	0.32	0.56	0.44	0.37	0.30	0.42	0.36	0.31	0.41	0.35	0.30	0.40	0.34	0.30	0.28
10	0.54	0.42	0.34	0.29	0.53	0.41	0.34	0.27	0.39	0.33	0.28	0.38	0.32	0.28	0.37	0.31	0.28	0.26

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	46.1	31.0
0- 40	70.9	47.6
0- 60	111.4	74.8
0- 90	140.0	94.0
60- 90	28.5	19.1
70-100	18.7	12.6
90-120	7.5	5.1
90-180	9.0	6.0
0-180	149.0	100.0

For lux multiply fc by 10.7



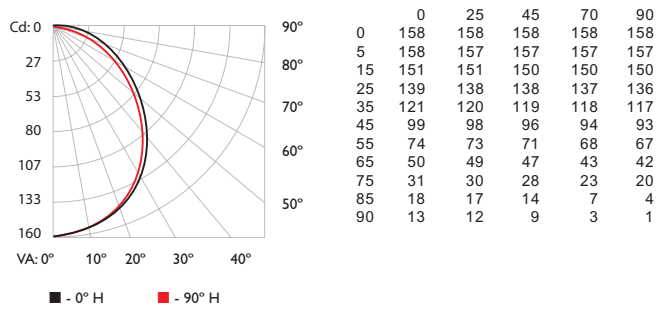
# Photometrics / eW Cove QLX Powercore, 3500 K, High Power, 305 mm (12 in)

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).

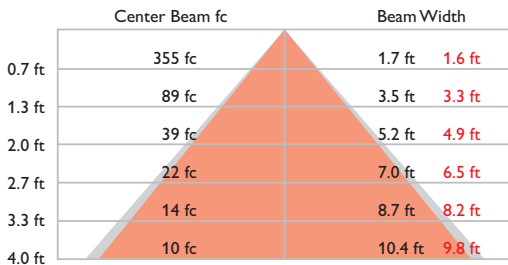
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
432	88 lm / W

### Polar Candela Distribution



### Illuminance at Distance



12.6 ft (3.8 m)   ■ Vert. Spread: 105.1°  
1 fc maximum distance   ■ Horiz. Spread: 101.6°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																		
	80			70			50			30			10						
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0			
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
	1	1.08	1.03	0.99	0.95	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.88	0.85	0.83	0.81
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
	3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.66	0.61	0.68	0.64	0.60	0.57
	4	0.82	0.70	0.62	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
	5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43
	6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
	8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.32	0.45	0.38	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24

### Zonal Lumen

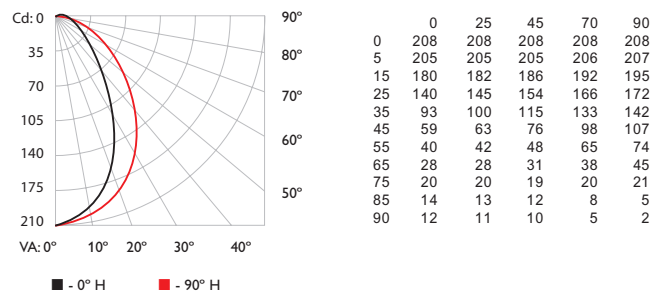
ZONE	LUMENS	%FIXT
0- 30	120.9	28.0
0- 40	195.5	45.2
0- 60	333.2	77.1
0- 90	422.6	97.8
60- 90	89.4	20.7
70-100	48.7	11.3
90-120	9.0	2.1
90-180	9.5	2.2
0-180	432.1	100.0

For lux multiply fc by 10.7

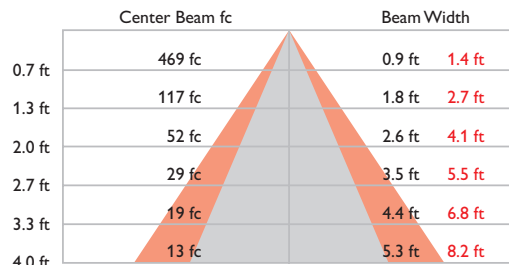
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
416	85.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



14.4 ft (4.4 m)   ■ Vert. Spread: 66.9°  
1 fc maximum distance   ■ Horiz. Spread: 91.5°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																		
	80			70			50			30			10						
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0			
RCR:	0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.96	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.96
	1	1.09	1.04	1.00	0.97	1.06	1.02	0.98	0.83	0.97	0.94	0.91	0.92	0.90	0.88	0.88	0.86	0.84	0.82
	2	1.00	0.92	0.86	0.81	0.97	0.90	0.84	0.72	0.86	0.81	0.77	0.82	0.78	0.75	0.79	0.76	0.73	0.71
	3	0.92	0.82	0.75	0.69	0.89	0.81	0.74	0.63	0.77	0.71	0.67	0.74	0.69	0.65	0.71	0.67	0.64	0.61
	4	0.85	0.74	0.66	0.60	0.83	0.73	0.65	0.55	0.70	0.63	0.58	0.67	0.62	0.57	0.65	0.60	0.56	0.54
	5	0.79	0.67	0.59	0.53	0.77	0.66	0.58	0.49	0.63	0.57	0.52	0.61	0.55	0.51	0.59	0.54	0.50	0.48
	6	0.74	0.61	0.53	0.47	0.71	0.60	0.52	0.44	0.58	0.51	0.46	0.56	0.50	0.45	0.54	0.49	0.45	0.43
	7	0.69	0.56	0.48	0.42	0.67	0.55	0.47	0.40	0.53	0.47	0.42	0.52	0.46	0.41	0.50	0.45	0.41	0.39
	8	0.64	0.52	0.44	0.38	0.63	0.51	0.43	0.37	0.49	0.43	0.38	0.48	0.42	0.37	0.46	0.41	0.37	0.35
	9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.34	0.46	0.39	0.34	0.44	0.38	0.34	0.43	0.38	0.34	0.32
	10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.31	0.43	0.36	0.32	0.41	0.36	0.31	0.40	0.35	0.31	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	144.7	34.8
0- 40	218.9	52.6
0- 60	330.5	79.5
0- 90	399.2	96.0
60- 90	68.7	16.5
70-100	42.2	10.2
90-120	14.6	3.5
90-180	16.6	4.0
0-180	415.8	100.0

For lux multiply fc by 10.7

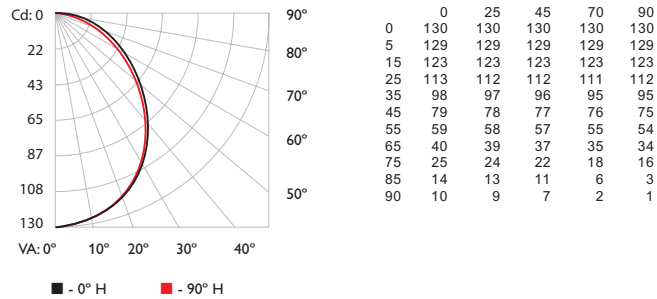
# Photometrics / eW Cove QLX Powercore, 3500 K, Low Power, 305 mm (12 in)

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).

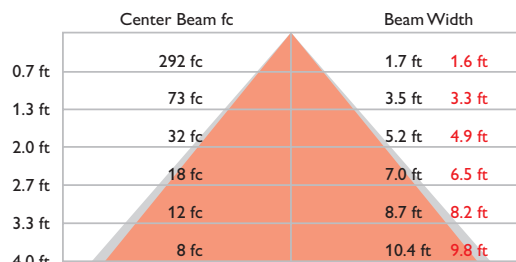
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
355	92.4 lm / W

### Polar Candela Distribution



### Illuminance at Distance



11.4 ft (3.5 m)   ■ Vert. Spread: 105.1°  
1 fc maximum distance   ■ Horiz. Spread: 101.5°

### 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	0
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05
	1	1.08	1.03	0.98	0.95	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.79	0.74	0.80	0.76	0.72
	3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.65	0.61
	4	0.82	0.70	0.61	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52
	5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46
	6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36
	8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.31	0.45	0.38	0.32	0.43	0.37	0.32
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26

### Zonal Lumen

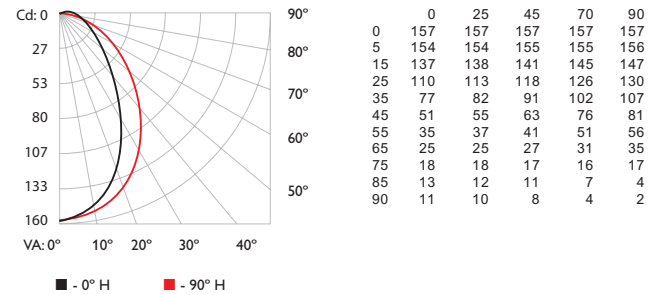
ZONE	LUMENS	%FIXT
0- 30	99.2	28.0
0- 40	160.3	45.2
0- 60	273.0	77.0
0- 90	346.8	97.8
60- 90	73.8	20.8
70-100	40.4	11.4
90-120	7.4	2.1
90-180	7.8	2.2
0-180	354.6	100.0

For lux multiply fc by 10.7

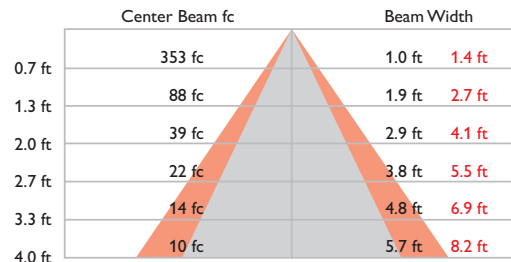
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
334	87.4 lm / W

### Polar Candela Distribution



### Illuminance at Distance



12.5 ft (3.8 m)   ■ Vert. Spread: 71.3°  
1 fc maximum distance   ■ Horiz. Spread: 91.7°

### 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	0
RCR:	0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.96	1.09	1.09	1.09	1.03	1.03	1.03
	1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.81	0.95	0.92	0.89	0.91	0.88	0.86
	2	0.99	0.91	0.84	0.79	0.96	0.89	0.83	0.70	0.85	0.80	0.75	0.81	0.77	0.73
	3	0.91	0.81	0.73	0.67	0.88	0.79	0.72	0.60	0.75	0.69	0.64	0.72	0.67	0.63
	4	0.84	0.72	0.64	0.58	0.81	0.71	0.63	0.53	0.68	0.61	0.56	0.65	0.59	0.55
	5	0.78	0.65	0.57	0.51	0.75	0.64	0.56	0.47	0.61	0.55	0.49	0.59	0.53	0.48
	6	0.72	0.59	0.51	0.45	0.70	0.58	0.50	0.42	0.56	0.49	0.44	0.54	0.48	0.43
	7	0.67	0.54	0.46	0.40	0.65	0.53	0.45	0.38	0.51	0.44	0.39	0.50	0.43	0.39
	8	0.63	0.50	0.42	0.36	0.61	0.49	0.41	0.34	0.47	0.41	0.36	0.46	0.40	0.35
	9	0.59	0.46	0.38	0.33	0.57	0.45	0.38	0.31	0.44	0.37	0.32	0.43	0.36	0.32
	10	0.55	0.43	0.35	0.30	0.54	0.42	0.35	0.29	0.41	0.34	0.30	0.40	0.34	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	110.5	33.1
0- 40	168.9	50.6
0- 60	260.1	77.9
0- 90	319.0	95.5
60- 90	58.9	17.6
70-100	36.8	11.0
90-120	13.2	3.9
90-180	15.0	4.5
0-180	333.9	100.0

For lux multiply fc by 10.7

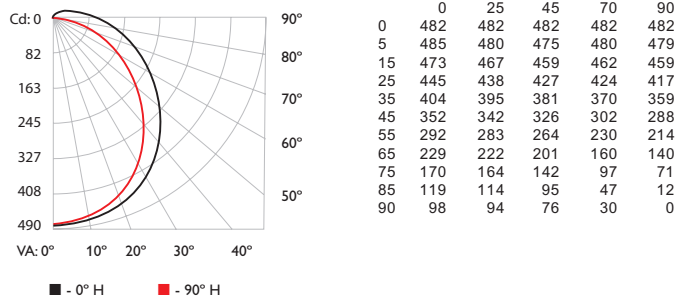
# Photometrics / eW Cove QLX Powercore, 3500 K, High Power, 1220 mm (48 in)

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).

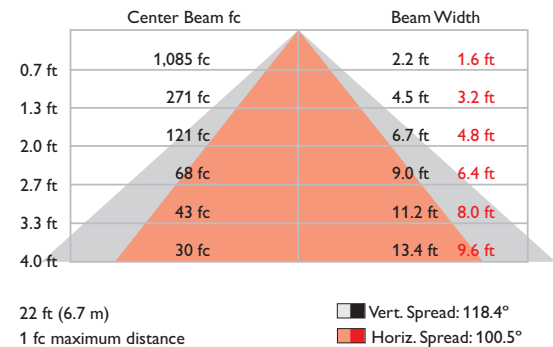
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1542	86.2 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	1.17	1.14	1.14	1.14	0.93	1.07	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.93
	1	1.06	1.00	0.95	0.91	1.02	0.97	0.93	0.75	0.92	0.88	0.85	0.86	0.84	0.81	0.82	0.79	0.77	0.75
	2	0.96	0.87	0.79	0.73	0.92	0.84	0.77	0.63	0.79	0.74	0.69	0.75	0.70	0.66	0.71	0.67	0.64	0.61
	3	0.87	0.76	0.67	0.60	0.84	0.74	0.66	0.53	0.70	0.63	0.57	0.66	0.60	0.56	0.63	0.58	0.54	0.51
	4	0.80	0.67	0.58	0.51	0.77	0.65	0.57	0.45	0.62	0.55	0.49	0.59	0.52	0.47	0.56	0.50	0.46	0.44
	5	0.73	0.60	0.51	0.44	0.70	0.58	0.50	0.39	0.55	0.48	0.42	0.53	0.46	0.41	0.50	0.44	0.40	0.38
	6	0.67	0.54	0.45	0.38	0.65	0.53	0.44	0.35	0.50	0.42	0.37	0.48	0.41	0.36	0.45	0.40	0.35	0.33
	7	0.63	0.49	0.40	0.34	0.60	0.48	0.39	0.31	0.45	0.38	0.33	0.43	0.37	0.32	0.41	0.36	0.31	0.29
	8	0.58	0.45	0.36	0.30	0.56	0.44	0.35	0.28	0.42	0.34	0.29	0.40	0.33	0.28	0.38	0.32	0.28	0.26
	9	0.54	0.41	0.33	0.27	0.53	0.40	0.32	0.25	0.38	0.31	0.26	0.37	0.30	0.26	0.35	0.29	0.25	0.23
	10	0.51	0.38	0.30	0.24	0.49	0.37	0.29	0.23	0.35	0.29	0.24	0.34	0.28	0.23	0.33	0.27	0.23	0.21

### Zonal Lumen

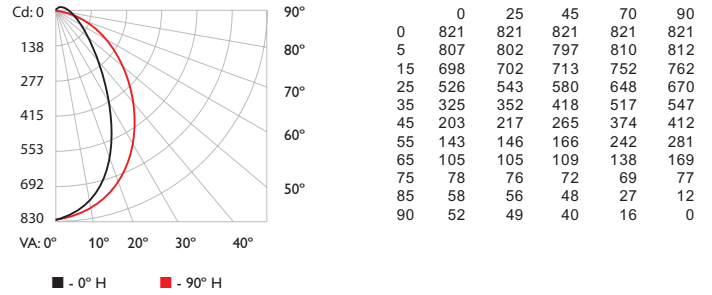
ZONE	LUMENS	%FIXT
0- 30	369.9	24.0
0- 40	601.3	39.0
0- 60	1,054.7	68.4
0- 90	1,433.7	93.0
60- 90	379.0	24.6
70-100	251.5	16.3
90-120	92.0	6.0
90-180	108.4	7.0
0-180	1,542.0	100.0

For lux multiply fc by 10.7

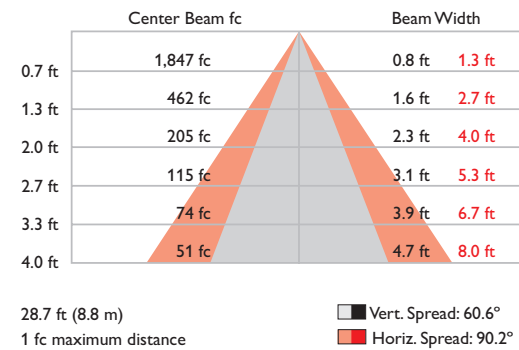
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1548	87.7 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	1.18	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	0.97	0.97	0.97	0.94
	1	1.08	1.04	0.99	0.96	1.05	1.01	0.97	0.81	0.95	0.93	0.90	0.91	0.88	0.86	0.86	0.84	0.83	0.80
	2	0.99	0.92	0.85	0.80	0.96	0.89	0.84	0.70	0.85	0.80	0.76	0.81	0.77	0.74	0.77	0.74	0.71	0.69
	3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.61	0.76	0.70	0.66	0.73	0.68	0.64	0.70	0.66	0.62	0.60
	4	0.85	0.74	0.66	0.59	0.82	0.72	0.65	0.54	0.69	0.62	0.57	0.66	0.61	0.56	0.63	0.59	0.55	0.53
	5	0.79	0.67	0.58	0.52	0.76	0.65	0.58	0.48	0.63	0.56	0.51	0.60	0.54	0.50	0.58	0.53	0.49	0.47
	6	0.73	0.61	0.53	0.47	0.71	0.60	0.52	0.43	0.57	0.51	0.45	0.55	0.49	0.45	0.53	0.48	0.44	0.42
	7	0.68	0.56	0.48	0.42	0.66	0.55	0.47	0.39	0.53	0.46	0.41	0.51	0.45	0.40	0.49	0.44	0.40	0.38
	8	0.64	0.51	0.44	0.38	0.62	0.50	0.43	0.36	0.49	0.42	0.37	0.47	0.41	0.37	0.46	0.40	0.36	0.34
	9	0.60	0.48	0.40	0.35	0.58	0.47	0.40	0.33	0.45	0.39	0.34	0.44	0.38	0.34	0.43	0.37	0.33	0.31
	10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.30	0.42	0.36	0.31	0.41	0.35	0.31	0.40	0.34	0.31	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	553.9	35.8
0- 40	822.5	53.1
0- 60	1,215.6	78.5
0- 90	1,461.9	94.4
60- 90	246.3	15.9
70-100	156.9	10.1
90-120	69.1	4.5
90-180	86.2	5.6
0-180	1,548.0	100.0

For lux multiply fc by 10.7

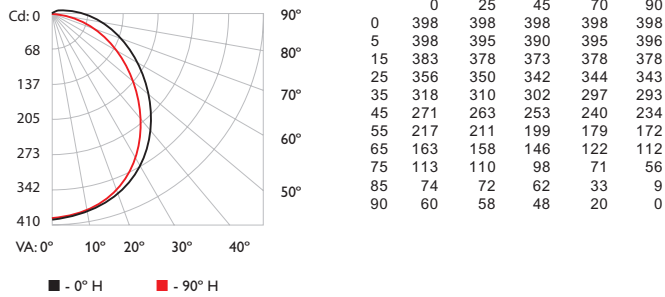
# Photometrics / eW Cove QLX Powercore, 3500 K, Low Power, 1220 mm (48 in)

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).

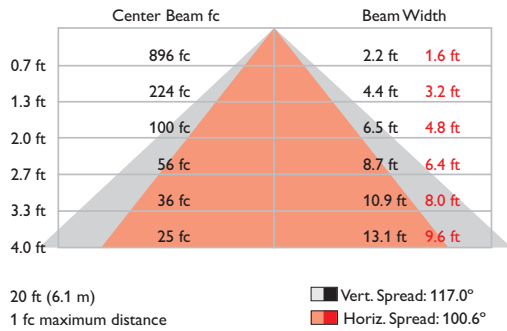
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1242	95.3 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%														
	80				70				50				30		
RW %:	70	50	30	0	70	50	30	0	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	1.02	1.02	1.02	0.97
	1	1.06	1.01	0.96	0.92	1.03	0.98	0.94	0.77	0.92	0.89	0.86	0.87	0.85	0.82
	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	0.72	0.67
	3	0.87	0.76	0.68	0.61	0.84	0.74	0.67	0.54	0.71	0.64	0.58	0.67	0.61	0.57
	4	0.80	0.68	0.59	0.52	0.77	0.66	0.58	0.46	0.63	0.55	0.50	0.60	0.53	0.48
	5	0.74	0.60	0.51	0.44	0.71	0.59	0.50	0.40	0.56	0.49	0.43	0.53	0.47	0.42
	6	0.68	0.54	0.45	0.39	0.66	0.53	0.45	0.36	0.51	0.43	0.38	0.48	0.42	0.37
	7	0.63	0.49	0.40	0.34	0.61	0.48	0.40	0.32	0.46	0.39	0.33	0.44	0.37	0.33
	8	0.59	0.45	0.36	0.30	0.57	0.44	0.36	0.28	0.42	0.35	0.30	0.40	0.34	0.29
	9	0.55	0.41	0.33	0.27	0.53	0.40	0.33	0.26	0.39	0.32	0.27	0.37	0.31	0.26
	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

### Zonal Lumen

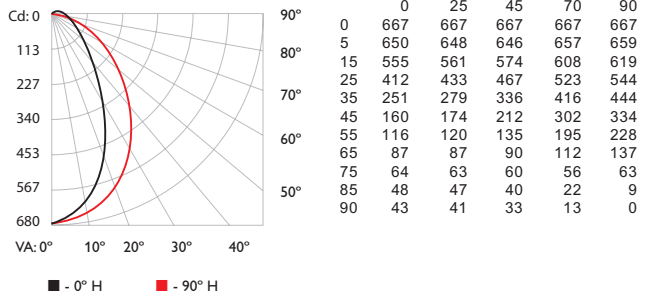
ZONE	LUMENS	%FIXT
0- 30	306.2	24.6
0- 40	497.9	40.1
0- 60	870.7	70.1
0- 90	1,168.1	94.0
60- 90	297.4	23.9
70-100	190.5	15.3
90-120	63.9	5.1
90-180	74.2	6.0
0-180	1,242.2	100.0

For lux multiply fc by 10.7

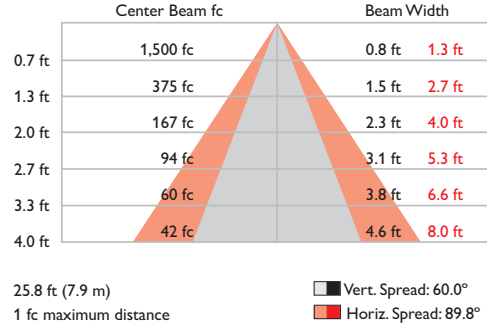
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1259	96.0 lm / W

### Polar Candela Distribution



### Illuminance at Distance



### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%														
	80				70				50				30		
RW %:	70	50	30	0	70	50	30	0	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	1.02	1.02	1.02	0.97
	1	1.08	1.03	0.99	0.96	1.05	1.01	0.97	0.81	0.95	0.92	0.90	0.91	0.88	0.86
	2	0.99	0.92	0.85	0.80	0.96	0.89	0.83	0.70	0.85	0.80	0.76	0.81	0.77	0.73
	3	0.91	0.82	0.74	0.68	0.89	0.80	0.73	0.61	0.76	0.70	0.65	0.73	0.68	0.64
	4	0.84	0.73	0.65	0.59	0.82	0.72	0.64	0.54	0.69	0.62	0.57	0.66	0.60	0.56
	5	0.78	0.67	0.58	0.52	0.76	0.65	0.57	0.48	0.62	0.56	0.51	0.60	0.54	0.50
	6	0.73	0.61	0.52	0.46	0.71	0.59	0.52	0.43	0.57	0.50	0.45	0.55	0.49	0.44
	7	0.68	0.56	0.47	0.42	0.66	0.55	0.47	0.39	0.53	0.46	0.41	0.51	0.45	0.40
	8	0.64	0.51	0.43	0.38	0.62	0.50	0.43	0.36	0.49	0.42	0.37	0.47	0.41	0.37
	9	0.60	0.47	0.40	0.35	0.58	0.47	0.39	0.33	0.45	0.39	0.34	0.44	0.38	0.33
	10	0.56	0.44	0.37	0.32	0.55	0.43	0.36	0.30	0.42	0.36	0.31	0.41	0.35	0.31

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	447.5	35.6
0- 40	663.8	52.7
0- 60	983.4	78.1
0- 90	1,187.9	94.4
60- 90	204.5	16.2
70-100	131.1	10.4
90-120	57.5	4.6
90-180	70.8	5.6
0-180	1,258.6	100.0

For lux multiply fc by 10.7

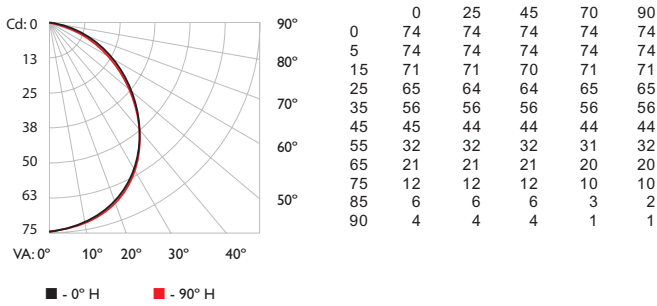
# Photometrics / eW Cove QLX Powercore, 4000 K, High Power, 152 mm (6 in)

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).

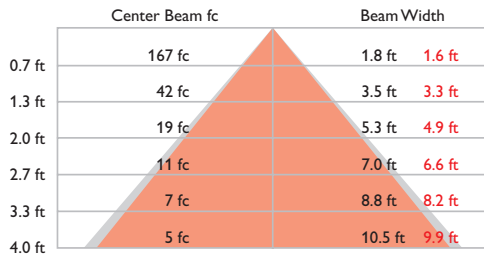
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
202	76.5 lm / W

### Polar Candela Distribution



### Illuminance at Distance



8.6 ft (2.6 m)    ■ Vert. Spread: 105.4°  
 1 fc maximum distance    ■ Horiz. Spread: 102.0°

### 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	0	50	30	20	0	50	30	20	0	
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98	0.98	0.98	0.98
	1	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.82	0.96	0.93	0.90	0.92	0.89	0.87	0.88	0.86	0.84	0.82	0.82	0.82
	2	0.98	0.90	0.83	0.78	0.96	0.88	0.82	0.70	0.84	0.79	0.74	0.81	0.76	0.72	0.77	0.74	0.71	0.68	0.68	0.68
	3	0.90	0.79	0.71	0.65	0.87	0.78	0.70	0.59	0.74	0.68	0.63	0.71	0.66	0.61	0.69	0.64	0.60	0.58	0.57	0.57
	4	0.82	0.71	0.62	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.54	0.64	0.58	0.53	0.61	0.56	0.52	0.50	0.50	0.50
	5	0.76	0.63	0.54	0.48	0.74	0.62	0.54	0.45	0.60	0.52	0.47	0.57	0.51	0.46	0.55	0.50	0.45	0.43	0.43	0.43
	6	0.70	0.57	0.48	0.42	0.68	0.56	0.48	0.40	0.54	0.47	0.41	0.52	0.46	0.41	0.50	0.45	0.40	0.38	0.38	0.38
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.43	0.35	0.49	0.42	0.36	0.48	0.41	0.36	0.46	0.40	0.36	0.34	0.34	0.34
	8	0.61	0.47	0.39	0.33	0.59	0.47	0.39	0.32	0.45	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.30	0.30	0.30
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.42	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27	0.27	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.40	0.32	0.26	0.38	0.32	0.27	0.37	0.31	0.27	0.36	0.31	0.26	0.25	0.25	0.25

### Zonal Lumen

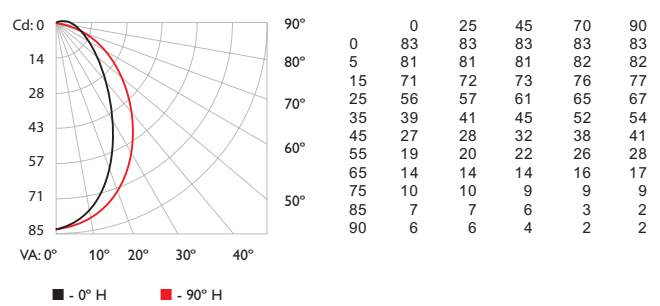
ZONE	LUMENS	%FIXT
0- 30	57.0	28.2
0- 40	92.4	45.7
0- 60	157.4	77.9
0- 90	197.8	98.0
60- 90	40.5	20.0
70-100	21.4	10.6
90-120	3.8	1.9
90-180	4.1	2.0
0-180	202.0	100.0

For lux multiply fc by 10.7

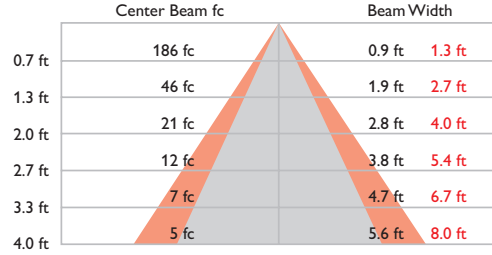
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
178	68.6 lm / W

### Polar Candela Distribution



### Illuminance at Distance



9.1 ft (2.7 m)    ■ Vert. Spread: 70.3°  
 1 fc maximum distance    ■ Horiz. Spread: 90.2°

### 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	
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	0.94	0.94	0.94
	1	1.07	1.03	0.98	0.94	1.04	1.00	0.96	0.8	0.94	0.91	0.88	0.90	0.87	0.85	0.85	0.83	0.81	0.79	0.79	0.79
	2	0.98	0.90	0.84	0.78	0.95	0.88	0.82	0.68	0.83	0.78	0.74	0.79	0.75	0.72	0.76	0.72	0.69	0.67	0.67	0.67
	3	0.90	0.80	0.72	0.66	0.87	0.78	0.71	0.59	0.74	0.68	0.63	0.71	0.66	0.62	0.68	0.63	0.60	0.57	0.57	0.57
	4	0.83	0.72	0.63	0.57	0.80	0.70	0.62	0.52	0.67	0.60	0.55	0.64	0.58	0.54	0.61	0.56	0.52	0.50	0.50	0.50
	5	0.77	0.65	0.56	0.50	0.75	0.63	0.55	0.46	0.61	0.54	0.48	0.58	0.52	0.47	0.56	0.50	0.46	0.44	0.44	0.44
	6	0.71	0.59	0.50	0.44	0.69	0.58	0.50	0.41	0.55	0.48	0.43	0.53	0.47	0.42	0.51	0.46	0.41	0.39	0.39	0.39
	7	0.67	0.54	0.45	0.40	0.65	0.53	0.45	0.37	0.51	0.44	0.39	0.49	0.43	0.38	0.47	0.41	0.37	0.35	0.35	0.35
	8	0.62	0.49	0.41	0.36	0.60	0.48	0.41	0.34	0.47	0.40	0.35	0.45	0.39	0.34	0.43	0.38	0.34	0.32	0.32	0.32
	9	0.58	0.46	0.38	0.32	0.57	0.45	0.37	0.31	0.43	0.36	0.32	0.42	0.36	0.31	0.40	0.35	0.31	0.29	0.29	0.29
	10	0.55	0.42	0.35	0.30	0.53	0.42	0.34	0.28	0.40	0.34	0.29	0.39	0.33	0.29	0.38	0.32	0.28	0.27	0.27	0.27

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	57.5	32.2
0- 40	87.5	49.0
0- 60	135.3	75.9
0- 90	168.3	94.4
60- 90	32.9	18.5
70-100	21.5	12.0
90-120	8.6	4.8
90-180	10.1	5.6
0-180	178.3	100.0

For lux multiply fc by 10.7

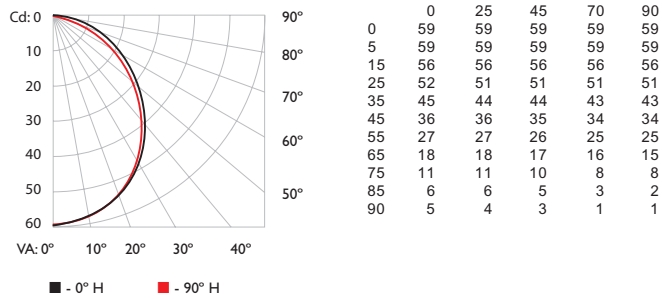
# Photometrics / eW Cove QLX Powercore, 4000 K, Low Power, 152 mm (6 in)

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).

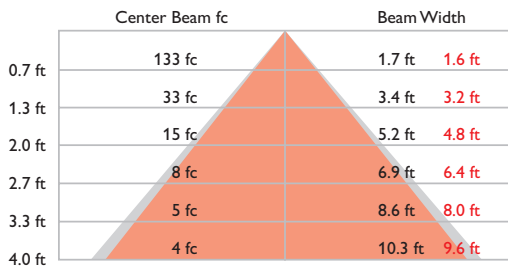
## 152 mm (6 in), 110° x 110° beam angle

Lumens	Efficacy
160	76.7 lm / W

### Polar Candela Distribution



### Illuminance at Distance



7.7 ft (2.4 m) Vert. Spread: 104.4°  
 1 fc maximum distance Horiz. Spread: 100.5°

### Coefficients Of Utilization - Zonal Cavity Method

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 0.98	1.10 1.10 1.10	1.05 1.05 1.05	1.00 1.00 1.00	0.98
1	1.08 1.03 0.98 0.95	1.05 1.00 0.96 0.82	0.96 0.92 0.89	0.91 0.89 0.86	0.87 0.85 0.83	0.81
2	0.98 0.90 0.83 0.77	0.95 0.88 0.81 0.69	0.84 0.79 0.74	0.80 0.76 0.72	0.77 0.73 0.70	0.68
3	0.90 0.79 0.71 0.64	0.87 0.77 0.70 0.59	0.74 0.68 0.62	0.71 0.66 0.61	0.68 0.64 0.60	0.57
4	0.82 0.70 0.62 0.55	0.80 0.69 0.61 0.51	0.66 0.59 0.53	0.63 0.57 0.52	0.61 0.56 0.51	0.49
5	0.76 0.63 0.54 0.47	0.73 0.62 0.53 0.45	0.59 0.52 0.46	0.57 0.51 0.46	0.55 0.49 0.45	0.43
6	0.70 0.57 0.48 0.42	0.68 0.56 0.47 0.39	0.54 0.46 0.41	0.52 0.45 0.40	0.50 0.44 0.40	0.38
7	0.65 0.52 0.43 0.37	0.63 0.51 0.42 0.35	0.49 0.42 0.36	0.47 0.41 0.36	0.46 0.40 0.35	0.33
8	0.61 0.47 0.39 0.33	0.59 0.46 0.38 0.32	0.45 0.38 0.32	0.43 0.37 0.32	0.42 0.36 0.32	0.30
9	0.57 0.43 0.35 0.30	0.55 0.43 0.35 0.29	0.41 0.34 0.29	0.40 0.34 0.29	0.39 0.33 0.29	0.27
10	0.53 0.40 0.32 0.27	0.52 0.39 0.32 0.26	0.38 0.31 0.27	0.37 0.31 0.26	0.36 0.30 0.26	0.24

### Zonal Lumen

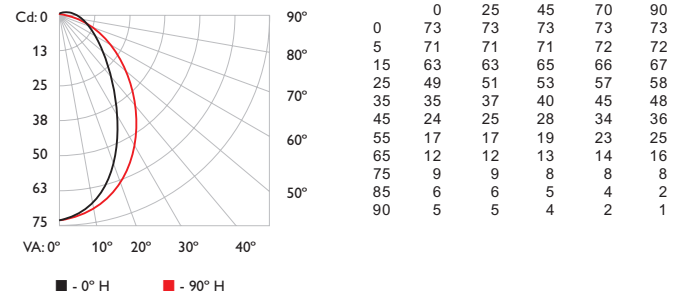
ZONE	LUMENS	%FIXT
0- 30	45.1	28.1
0- 40	72.7	45.4
0- 60	123.4	77.0
0- 90	156.5	97.6
60- 90	33.1	20.7
70-100	18.2	11.4
90-120	3.5	2.2
90-180	3.8	2.4
0-180	160.3	100.0

For lux multiply fc by 10.7

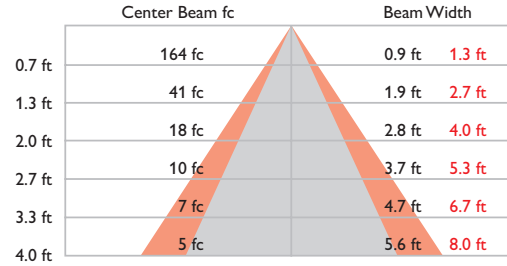
## 152 mm (6 in), 60° x 90° beam angle

Lumens	Efficacy
156	73.2 lm / W

### Polar Candela Distribution



### Illuminance at Distance



8.6 ft (2.6 m) Vert. Spread: 70.0°  
 1 fc maximum distance Horiz. Spread: 89.9°

### Coefficients Of Utilization - Zonal Cavity Method

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 0.95	1.08 1.08 1.08	1.02 1.02 1.02	0.97 0.97 0.97	0.95
1	1.08 1.03 0.99 0.95	1.04 1.00 0.96 0.80	0.95 0.92 0.89	0.90 0.87 0.85	0.86 0.84 0.82	0.79
2	0.98 0.91 0.84 0.78	0.95 0.88 0.82 0.69	0.84 0.79 0.75	0.80 0.76 0.72	0.76 0.73 0.70	0.67
3	0.90 0.80 0.73 0.66	0.88 0.78 0.71 0.59	0.75 0.69 0.64	0.71 0.66 0.62	0.68 0.64 0.60	0.58
4	0.83 0.72 0.64 0.57	0.81 0.70 0.63 0.52	0.67 0.61 0.55	0.64 0.59 0.54	0.62 0.57 0.53	0.51
5	0.77 0.65 0.56 0.50	0.75 0.64 0.56 0.46	0.61 0.54 0.49	0.58 0.52 0.48	0.56 0.51 0.47	0.45
6	0.72 0.59 0.51 0.44	0.69 0.58 0.50 0.41	0.56 0.49 0.43	0.53 0.47 0.43	0.51 0.46 0.42	0.40
7	0.67 0.54 0.46 0.40	0.65 0.53 0.45 0.37	0.51 0.44 0.39	0.49 0.43 0.38	0.47 0.42 0.38	0.36
8	0.62 0.50 0.41 0.36	0.61 0.49 0.41 0.34	0.47 0.40 0.35	0.45 0.39 0.35	0.44 0.38 0.34	0.32
9	0.59 0.46 0.38 0.33	0.57 0.45 0.38 0.31	0.43 0.37 0.32	0.42 0.36 0.32	0.41 0.35 0.31	0.29
10	0.55 0.42 0.35 0.30	0.54 0.42 0.35 0.28	0.40 0.34 0.29	0.39 0.33 0.29	0.38 0.33 0.29	0.27

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	50.8	32.6
0- 40	77.3	49.6
0- 60	119.3	76.5
0- 90	147.7	94.7
60- 90	28.4	18.2
70-100	18.4	11.8
90-120	7.0	4.5
90-180	8.2	5.3
0-180	155.9	100.0

For lux multiply fc by 10.7

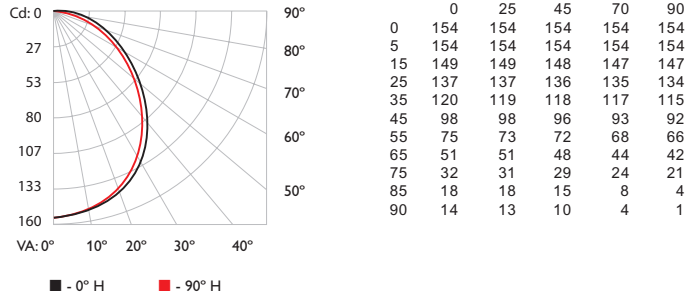
# Photometrics / eW Cove QLX Powercore, 4000 K, High Power, 305 mm (12 in)

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).

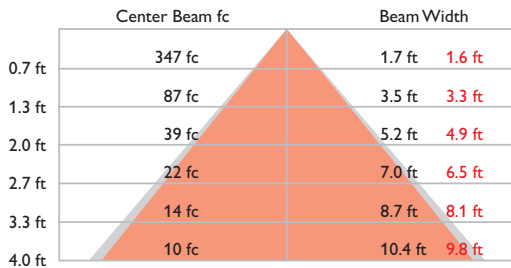
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
422	86.7 lm / W

### Polar Candela Distribution



### Illuminance at Distance



12.6 ft (3.8 m) Vert. Spread: 105.0°  
 1 fc maximum distance Horiz. Spread: 101.3°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																			
	80				70				50				30							
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98	0.98	0.98
1	1.08	1.03	0.98	0.94	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.87	0.85	0.83	0.81	0.81	0.81
2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68	0.68	0.68
3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.65	0.61	0.68	0.64	0.60	0.57	0.57	0.57
4	0.82	0.70	0.61	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49	0.49	0.49
5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43	0.43	0.43
6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.37	0.37	0.37
7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33	0.33	0.33
8	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.31	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30	0.30	0.30
9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27	0.27	0.27
10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24	0.24	0.24

### Zonal Lumen

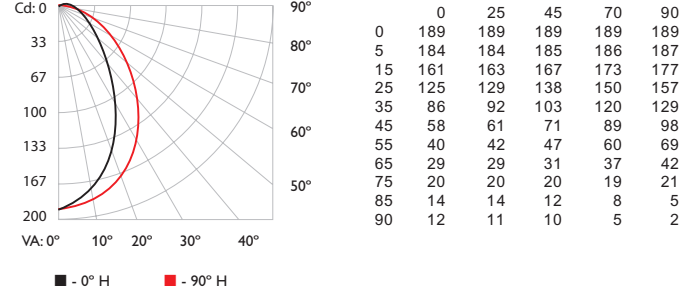
ZONE	LUMENS	%FIXT
0- 30	118.1	28.0
0- 40	190.8	45.2
0- 60	324.9	76.9
0- 90	412.9	97.8
60- 90	88.0	20.8
70-100	48.2	11.4
90-120	8.8	2.1
90-180	9.3	2.2
0-180	422.2	100.0

For lux multiply fc by 10.7

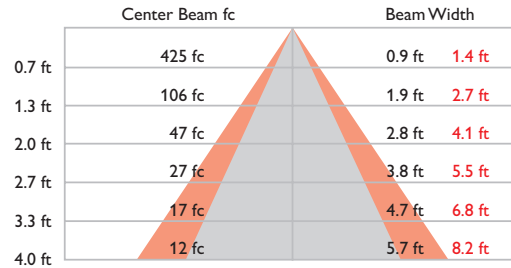
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
401	82.1 lm / W

### Polar Candela Distribution



### Illuminance at Distance



13.8 ft (4.2 m) Vert. Spread: 70.5°  
 1 fc maximum distance Horiz. Spread: 91.5°

### Coefficients Of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																			
	80				70				50				30							
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR:	0	1.18	1.18	1.18	1.15	1.15	1.15	0.95	1.09	1.09	1.09	1.03	1.03	1.03	0.98	0.98	0.98	0.95	0.95	0.95
1	1.08	1.03	0.99	0.95	1.05	1.00	0.97	0.81	0.95	0.92	0.89	0.91	0.88	0.86	0.86	0.84	0.83	0.80	0.80	0.80
2	0.99	0.91	0.84	0.79	0.96	0.89	0.83	0.70	0.84	0.80	0.75	0.81	0.76	0.73	0.77	0.74	0.71	0.68	0.68	0.68
3	0.91	0.81	0.73	0.67	0.88	0.79	0.72	0.60	0.75	0.69	0.64	0.72	0.67	0.63	0.69	0.65	0.61	0.59	0.59	0.59
4	0.84	0.72	0.64	0.58	0.81	0.71	0.63	0.53	0.68	0.61	0.56	0.65	0.59	0.55	0.62	0.58	0.54	0.51	0.51	0.51
5	0.78	0.65	0.57	0.51	0.75	0.64	0.56	0.47	0.61	0.55	0.49	0.59	0.53	0.48	0.57	0.52	0.47	0.45	0.45	0.45
6	0.72	0.59	0.51	0.45	0.70	0.58	0.50	0.42	0.56	0.49	0.44	0.54	0.48	0.43	0.52	0.47	0.42	0.40	0.40	0.40
7	0.67	0.54	0.46	0.40	0.65	0.53	0.45	0.38	0.51	0.44	0.39	0.50	0.43	0.39	0.48	0.42	0.38	0.36	0.36	0.36
8	0.63	0.50	0.42	0.36	0.61	0.49	0.41	0.34	0.47	0.41	0.36	0.46	0.40	0.35	0.44	0.39	0.35	0.33	0.33	0.33
9	0.59	0.46	0.38	0.33	0.57	0.45	0.38	0.31	0.44	0.37	0.32	0.43	0.36	0.32	0.41	0.36	0.32	0.30	0.30	0.30
10	0.55	0.43	0.35	0.30	0.54	0.42	0.35	0.29	0.41	0.34	0.30	0.40	0.34	0.29	0.38	0.33	0.29	0.27	0.27	0.27

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	132.6	33.1
0- 40	202.4	50.5
0- 60	311.8	77.8
0- 90	382.6	95.5
60- 90	70.8	17.7
70-100	44.4	11.1
90-120	15.8	4.0
90-180	18.1	4.5
0-180	400.7	100.0

For lux multiply fc by 10.7

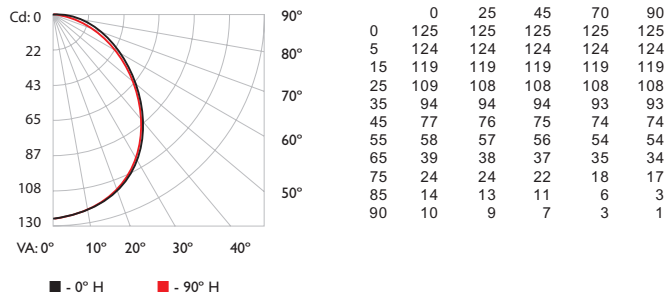
# Photometrics / eW Cove QLX Powercore, 4000 K, Low Power, 305 mm (12 in)

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).

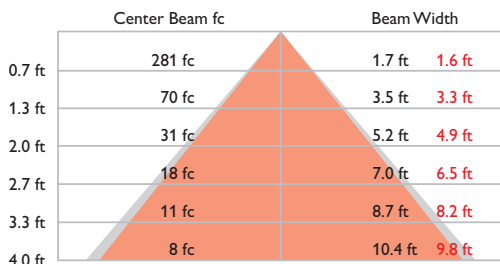
## 305 mm (12 in), 110° x 110° beam angle

Lumens	Efficacy
342	89.6 lm / W

### Polar Candela Distribution



### Illuminance at Distance



11.2 ft (3.4 m)   Vert. Spread: 105.1°  
 1 fc maximum distance   Horiz. Spread: 101.6°

### 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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
	1	1.08	1.03	0.98	0.95	1.05	1.00	0.96	0.82	0.96	0.92	0.89	0.91	0.89	0.86	0.87	0.85	0.83	0.81
	2	0.98	0.90	0.83	0.77	0.95	0.88	0.81	0.69	0.84	0.79	0.74	0.80	0.76	0.72	0.77	0.73	0.70	0.68
	3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.59	0.74	0.68	0.62	0.71	0.65	0.61	0.68	0.64	0.60	0.57
	4	0.82	0.70	0.61	0.55	0.80	0.69	0.61	0.51	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
	5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.45	0.59	0.52	0.46	0.57	0.51	0.46	0.55	0.49	0.45	0.43
	6	0.70	0.57	0.48	0.41	0.68	0.56	0.47	0.39	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.37
	7	0.65	0.52	0.43	0.37	0.63	0.51	0.42	0.35	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
	8	0.60	0.47	0.39	0.33	0.59	0.46	0.38	0.31	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
	9	0.57	0.43	0.35	0.30	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
	10	0.53	0.40	0.32	0.27	0.52	0.39	0.32	0.26	0.38	0.31	0.27	0.37	0.31	0.26	0.36	0.30	0.26	0.24

### Zonal Lumen

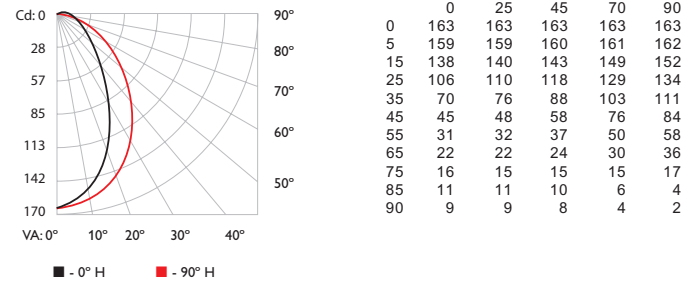
ZONE	LUMENS	%FIXT
0- 30	95.4	27.9
0- 40	154.2	45.2
0- 60	262.8	77.0
0- 90	333.9	97.8
60- 90	71.1	20.8
70-100	38.9	11.4
90-120	7.2	2.1
90-180	7.5	2.2
0-180	341.5	100.0

For lux multiply fc by 10.7

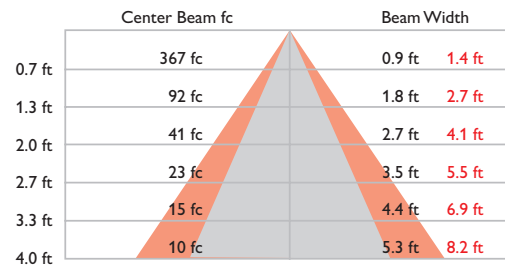
## 305 mm (12 in), 60° x 90° beam angle

Lumens	Efficacy
329	86.9 lm / W

### Polar Candela Distribution



### Illuminance at Distance



12.8 ft (3.9 m)   Vert. Spread: 67.2°  
 1 fc maximum distance   Horiz. Spread: 91.7°

### 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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.96	1.09	1.09	1.09	1.03	1.03	1.03	0.98	0.98	0.98	0.96
	1	1.08	1.04	1.00	0.96	1.05	1.01	0.97	0.82	0.96	0.93	0.90	0.91	0.89	0.87	0.87	0.85	0.83	0.81
	2	0.99	0.92	0.85	0.80	0.96	0.89	0.84	0.71	0.85	0.80	0.76	0.81	0.77	0.74	0.78	0.75	0.72	0.69
	3	0.91	0.82	0.74	0.68	0.89	0.80	0.73	0.61	0.76	0.70	0.65	0.73	0.68	0.64	0.70	0.66	0.62	0.60
	4	0.84	0.73	0.65	0.59	0.82	0.72	0.64	0.54	0.69	0.62	0.57	0.66	0.60	0.56	0.63	0.59	0.55	0.52
	5	0.78	0.66	0.58	0.52	0.76	0.65	0.57	0.48	0.62	0.56	0.50	0.60	0.54	0.49	0.58	0.53	0.49	0.46
	6	0.73	0.60	0.52	0.46	0.71	0.59	0.51	0.43	0.57	0.50	0.45	0.55	0.49	0.44	0.53	0.48	0.43	0.41
	7	0.68	0.55	0.47	0.41	0.66	0.54	0.46	0.39	0.52	0.45	0.40	0.51	0.44	0.40	0.49	0.43	0.39	0.37
	8	0.63	0.51	0.43	0.37	0.62	0.50	0.42	0.35	0.48	0.41	0.37	0.47	0.41	0.36	0.45	0.40	0.36	0.34
	9	0.60	0.47	0.39	0.34	0.58	0.46	0.39	0.32	0.45	0.38	0.33	0.43	0.37	0.33	0.42	0.37	0.33	0.31
	10	0.56	0.44	0.36	0.31	0.55	0.43	0.36	0.30	0.42	0.35	0.31	0.40	0.35	0.30	0.39	0.34	0.30	0.28

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	113.6	34.5
0- 40	172.0	52.3
0- 60	260.6	79.2
0- 90	315.8	95.9
60- 90	55.2	16.8
70-100	34.1	10.4
90-120	11.9	3.6
90-180	13.4	4.1
0-180	329.2	100.0

For lux multiply fc by 10.7



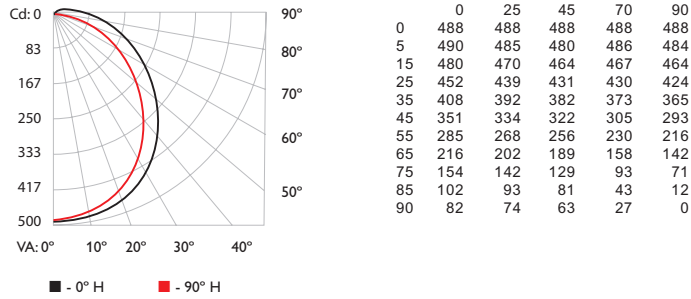
# Photometrics / eW Cove QLX Powercore, 4000 K, High Power, 1220 mm (48 in)

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).

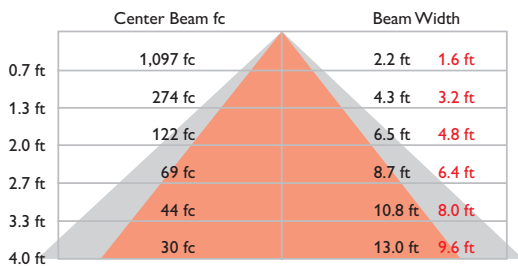
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1524	86.6 lm / W

### Polar Candela Distribution



### Illuminance at Distance



22.1 ft (6.7 m) Vert. Spread: 116.8°  
1 fc maximum distance Horiz. Spread: 100.7°

### 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	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	0.97	0.97	0.97	0.94	0.94	0.94	0.94
1	1.06	1.01	0.96	0.92	1.03	0.98	0.94	0.77	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.81	0.79	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	0.75	0.70	0.76	0.72	0.68	0.72	0.68	0.65	0.63	0.63	0.63	0.63
3	0.87	0.76	0.68	0.61	0.84	0.74	0.67	0.54	0.71	0.64	0.58	0.67	0.61	0.57	0.64	0.59	0.55	0.52	0.52	0.52	0.52
4	0.80	0.68	0.59	0.52	0.77	0.66	0.58	0.46	0.63	0.55	0.50	0.60	0.53	0.48	0.57	0.51	0.47	0.45	0.45	0.45	0.45
5	0.74	0.60	0.51	0.44	0.71	0.59	0.50	0.40	0.56	0.49	0.43	0.53	0.47	0.42	0.51	0.45	0.41	0.39	0.39	0.39	0.39
6	0.68	0.54	0.45	0.39	0.66	0.53	0.45	0.36	0.51	0.43	0.38	0.48	0.42	0.37	0.46	0.40	0.36	0.34	0.34	0.34	0.34
7	0.63	0.49	0.40	0.34	0.61	0.48	0.40	0.32	0.46	0.39	0.33	0.44	0.37	0.33	0.42	0.36	0.32	0.30	0.30	0.30	0.30
8	0.59	0.45	0.36	0.30	0.57	0.44	0.36	0.28	0.42	0.35	0.30	0.40	0.34	0.29	0.39	0.33	0.29	0.27	0.27	0.27	0.27
9	0.55	0.41	0.33	0.27	0.53	0.40	0.33	0.26	0.39	0.32	0.27	0.37	0.31	0.26	0.36	0.30	0.26	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	0.35	0.28	0.24	0.33	0.28	0.23	0.22	0.22	0.22	0.22

### Zonal Lumen

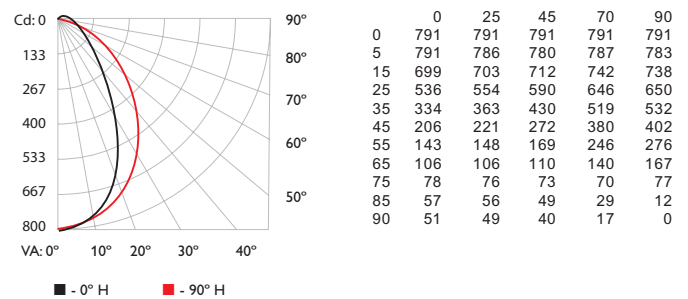
ZONE	LUMENS	%FIXT
0- 30	375.5	24.6
0- 40	610.9	40.1
0- 60	1,069.1	70.1
0- 90	1,433.7	94.1
60- 90	364.6	23.9
70-100	232.8	15.3
90-120	77.6	5.1
90-180	90.5	5.9
0-180	1,524.2	100.0

For lux multiply fc by 10.7

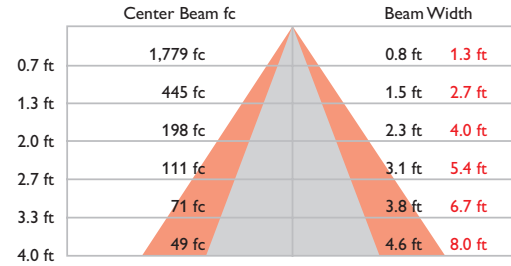
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1487	87.1 lm / W

### Polar Candela Distribution



### Illuminance at Distance



28.1 ft (8.6 m) Vert. Spread: 59.8°  
1 fc maximum distance Horiz. Spread: 90.3°

### 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	0
0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.95	1.08	1.08	1.08	1.02	1.02	1.02	0.97	0.97	0.97	0.95	0.95	0.95	0.95
1	1.08	1.04	1.00	0.96	1.05	1.01	0.97	0.81	0.96	0.93	0.90	0.91	0.88	0.86	0.86	0.84	0.83	0.80	0.80	0.80	0.80
2	0.99	0.92	0.85	0.80	0.96	0.89	0.84	0.70	0.85	0.80	0.76	0.81	0.77	0.74	0.77	0.74	0.71	0.69	0.69	0.69	0.69
3	0.92	0.82	0.74	0.69	0.89	0.80	0.73	0.61	0.76	0.70	0.66	0.73	0.68	0.64	0.70	0.66	0.62	0.60	0.60	0.60	0.60
4	0.85	0.74	0.66	0.60	0.82	0.72	0.65	0.54	0.69	0.63	0.57	0.66	0.61	0.56	0.63	0.59	0.55	0.53	0.53	0.53	0.53
5	0.79	0.67	0.59	0.52	0.76	0.65	0.58	0.48	0.63	0.56	0.51	0.60	0.54	0.50	0.58	0.53	0.49	0.47	0.47	0.47	0.47
6	0.73	0.61	0.53	0.47	0.71	0.60	0.52	0.44	0.57	0.51	0.46	0.55	0.49	0.45	0.53	0.48	0.44	0.42	0.42	0.42	0.42
7	0.68	0.56	0.48	0.42	0.66	0.55	0.47	0.40	0.53	0.46	0.41	0.51	0.45	0.40	0.49	0.44	0.40	0.38	0.38	0.38	0.38
8	0.64	0.51	0.44	0.38	0.62	0.51	0.43	0.36	0.49	0.42	0.37	0.47	0.41	0.37	0.46	0.40	0.36	0.34	0.34	0.34	0.34
9	0.60	0.48	0.40	0.35	0.58	0.47	0.40	0.33	0.45	0.39	0.34	0.44	0.38	0.34	0.43	0.37	0.33	0.32	0.32	0.32	0.32
10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.40	0.35	0.31	0.29	0.29	0.29	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	533.2	35.9
0- 40	791.1	53.2
0- 60	1,168.8	78.6
0- 90	1,405.0	94.5
60- 90	236.2	15.9
70-100	150.0	10.1
90-120	65.8	4.4
90-180	81.6	5.5
0-180	1,486.6	100.0

For lux multiply fc by 10.7

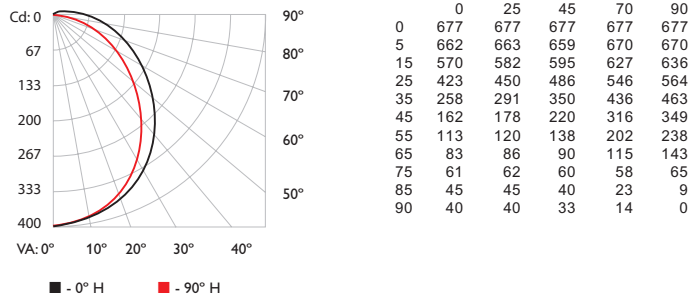
# Photometrics / eW Cove QLX Powercore, 4000 K, Low Power, 1220 mm (48 in)

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).

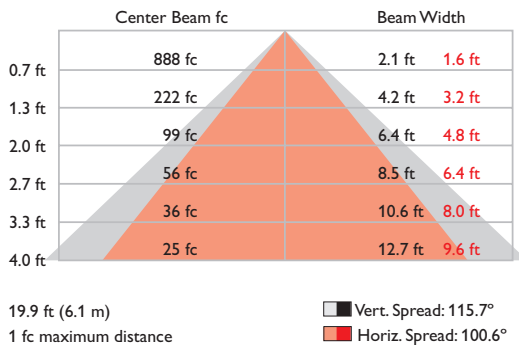
## 1220 mm (48 in), 110° x 110° beam angle

Lumens	Efficacy
1234	92.3 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	1.18	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	0.92	1.03	0.98	0.93	0.77	0.92	0.89	0.86	0.87	0.84	0.82	0.83	0.8	0.78	0.76	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	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
4	0.80	0.68	0.59	0.52	0.77	0.66	0.57	0.46	0.63	0.55	0.50	0.59	0.53	0.48	0.57	0.51	0.47	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
6	0.68	0.54	0.45	0.39	0.65	0.53	0.44	0.35	0.51	0.43	0.37	0.48	0.42	0.37	0.42	0.36	0.32	0.30	0.30
7	0.63	0.49	0.40	0.34	0.61	0.48	0.40	0.31	0.46	0.39	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.30	0.30
8	0.59	0.45	0.36	0.30	0.57	0.44	0.36	0.28	0.42	0.35	0.30	0.40	0.34	0.29	0.39	0.33	0.28	0.26	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	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	0.28	0.23	0.22	0.22

### Zonal Lumen

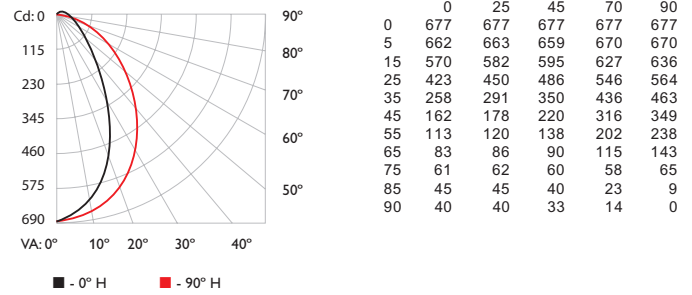
ZONE	LUMENS	%FIXT
0- 30	303.2	24.6
0- 40	492.8	39.9
0- 60	862.2	69.9
0- 90	1,159.5	93.9
60- 90	297.3	24.1
70-100	191.5	15.5
90-120	64.6	5.2
90-180	74.8	6.1
0-180	1,234.3	100.0

For lux multiply fc by 10.7

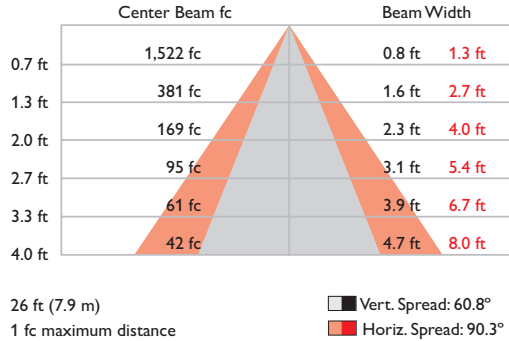
## 1220 mm (48 in), 60° x 90° beam angle

Lumens	Efficacy
1274	94.3 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	1.18	1.18	1.18	1.14	1.14	1.14	0.95	1.08	1.08	1.08	1.02	1.02	1.02	0.97	0.97	0.97	0.95
1	1.08	1.04	1.00	0.96	1.05	1.01	0.97	0.81	0.96	0.93	0.90	0.91	0.89	0.86	0.87	0.85	0.83	0.80
2	0.99	0.92	0.86	0.80	0.96	0.90	0.84	0.70	0.85	0.80	0.76	0.81	0.77	0.74	0.77	0.74	0.71	0.69
3	0.92	0.82	0.75	0.69	0.89	0.80	0.73	0.62	0.76	0.71	0.66	0.73	0.68	0.64	0.70	0.66	0.62	0.60
4	0.85	0.74	0.66	0.60	0.82	0.72	0.65	0.54	0.69	0.63	0.58	0.66	0.61	0.56	0.64	0.59	0.55	0.53
5	0.79	0.67	0.59	0.53	0.76	0.65	0.58	0.49	0.63	0.56	0.51	0.60	0.55	0.50	0.58	0.53	0.49	0.47
6	0.73	0.61	0.53	0.47	0.71	0.60	0.52	0.44	0.57	0.51	0.46	0.55	0.49	0.45	0.53	0.48	0.44	0.42
7	0.68	0.56	0.48	0.42	0.66	0.55	0.47	0.40	0.53	0.46	0.41	0.51	0.45	0.41	0.49	0.44	0.40	0.38
8	0.64	0.51	0.44	0.38	0.62	0.51	0.43	0.36	0.49	0.42	0.37	0.47	0.41	0.37	0.46	0.40	0.36	0.35
9	0.60	0.48	0.40	0.35	0.59	0.47	0.40	0.33	0.45	0.39	0.34	0.44	0.38	0.34	0.43	0.37	0.33	0.32
10	0.57	0.44	0.37	0.32	0.55	0.44	0.37	0.31	0.42	0.36	0.32	0.41	0.35	0.31	0.40	0.35	0.31	0.29

### Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	458.2	36.0
0- 40	680.9	53.4
0- 60	1,005.8	78.9
0- 90	1,206.8	94.7
60- 90	201.0	15.8
70-100	126.9	10.0
90-120	54.8	4.3
90-180	67.5	5.3
0-180	1,274.3	100.0

For lux multiply fc by 10.7

## Specifications - 2700 K\*, Wide Beam (110° × 110°)

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†	High Power	176			384			1372		
		Low Power	154			316			1108		
	Efficacy (lm / W)	High Power	67.8			78.9			76.6		
		Low Power	73.2			82.9			83.4		
	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	High Power	2.8 W	3.5 W	3.8 W	5.1 W	5.5 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
	Power Factor (@ 120 VAC)		.99			.99			.98		
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Wide Beam Dimensions (Height x Length x Width)	35 x 152 x 32 mm (1.37 x 6 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12 x 1.25 in)			47 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, SAA, C-Tick, CCC									
	Environment	Damp Location, IP20									

## Specifications - 2700 K\*, Medium Beam (60° × 90°)

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†	High Power	166			361			1361		
		Low Power	148			306			1143		
	Efficacy (lm / W)	High Power	63.5			75.0			79.2		
		Low Power	70.1			80.2			86.4		
	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	High Power	2.8 W	3.5 W	3.8 W	5.1 W	5.5 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
	Power Factor (@ 120 VAC)		.99			.99			.98		
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Medium Beam Dimensions (Height x Length x Width)	40 x 152 x 32 mm (1.58 x 6 x 1.25 in)			40 x 305 x 32 mm (1.58 x 12 x 1.25 in)			49 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, 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 - 3000 K\*, Wide Beam (110° × 110°)

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†	High Power	209			432			1575		
		Low Power	170			359			1292		
	Efficacy (lm / W)	High Power	79.2			90.3			87.9		
		Low Power	80.3			92.2			94.6		
	CRI		82			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	High Power	4.0 W	4.2 W	3.8 W	5.1 W	5.5 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
	Power Factor (@ 120 VAC)		.98			.99			.98		
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Wide Beam Dimensions (Height x Length x Width)	35 x 152 x 32 mm (1.37 x 6 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12 x 1.25 in)			47 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, SAA, C-Tick, CCC									
	Environment	Damp Location, IP20									

## Specifications - 3000 K\*, Medium Beam (60° × 90°)

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†	High Power	188			411			1604		
		Low Power	163			341			1309		
	Efficacy (lm / W)	High Power	70.5			85.9			90.2		
		Low Power	77.8			90.2			98.4		
	CRI		82			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	High Power	2.8 W	3.5 W	3.8 W	5.1 W	5.5 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
	Power Factor (@ 120 VAC)		.99			.99			.98		
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Medium Beam Dimensions (Height x Length x Width)	40 x 152 x 32 mm (1.58 x 6 x 1.25 in)			40 x 305 x 32 mm (1.58 x 12 x 1.25 in)			49 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, 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.



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## Specifications - 3500 K\*, Wide Beam (110° × 110°)

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†	High Power	204			432			1542		
		Low Power	165			355			1242		
	Efficacy (lm / W)	High Power	78.4			88.0			86.2		
		Low Power	79.3			92.4			95.3		
	CRI		82			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	High Power	2.8 W	3.5 W	3.8 W	4.0 W	5.5 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
Power Factor (@ 120 VAC)		.99			.99			.98			
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Wide Beam Dimensions (Height x Length x Width)	35 x 152 x 32 mm (1.37 x 6 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12 x 1.25 in)			97 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, SAA, C-Tick, CCC									
	Environment	Damp Location, IP20									

## Specifications - 3500 K\*, Medium Beam (60° × 90°)

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†	High Power	183			416			1548		
		Low Power	149			334			1259		
	Efficacy (lm / W)	High Power	70.0			85.2			87.7		
		Low Power	72.0			87.4			96.0		
	CRI		82			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	High Power	2.8 W	3.5 W	3.8 W	5.1 W	5.5 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
Power Factor (@ 120 VAC)		.99			.99			.98			
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Medium Beam Dimensions (Height x Length x Width)	40 x 152 x 32 mm (1.58 x 6 x 1.25 in)			40 x 305 x 32 mm (1.58 x 12 x 1.25 in)			49 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, 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.



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## Specifications - 4000 K\*, Wide Beam (110° × 110°)

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†	High Power	202			422			1524		
		Low Power	160			342			1234		
	Efficacy (lm / W)	High Power	76.5			86.7			86.6		
		Low Power	76.7			89.6			92.3		
	CRI		83			83			82		
Electrical	Input Voltage	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	
	Power Consumption	High Power	2.8 W	3.5 W	3.8 W	4.0 W	5.1 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
	Power Factor (@ 120 VAC)		.99			.99			.98		
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Wide Beam Dimensions (Height x Length x Width)	35 x 152 x 32 mm (1.37 x 6 x 1.25 in)			35 x 305 x 32 mm (1.37 x 12 x 1.25 in)			47 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, SAA, C-Tick, CCC									
	Environment	Damp Location, IP20									

## Specifications - 4000 K\*, Medium Beam (60° × 90°)

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

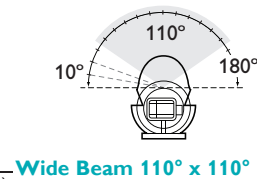
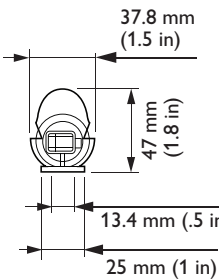
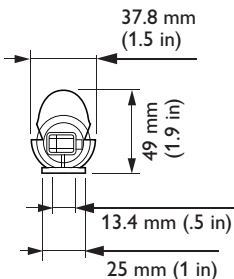
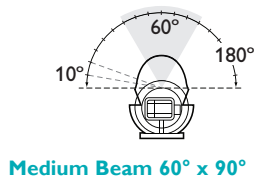
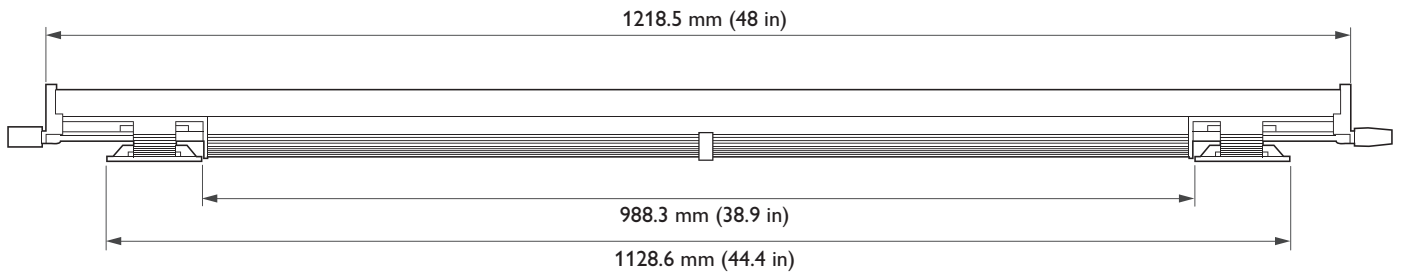
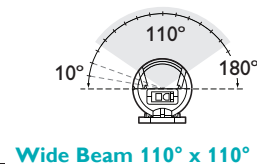
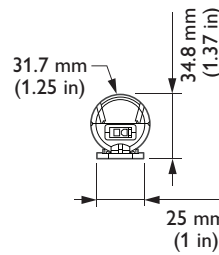
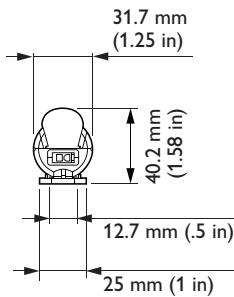
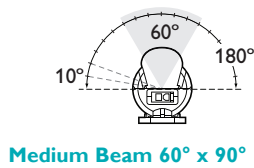
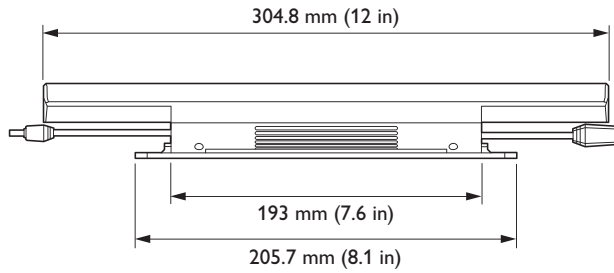
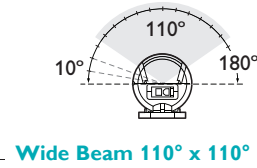
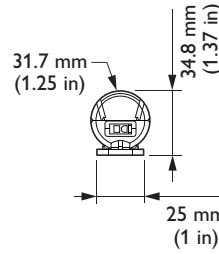
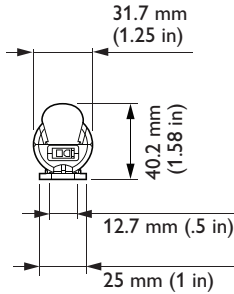
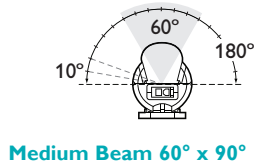
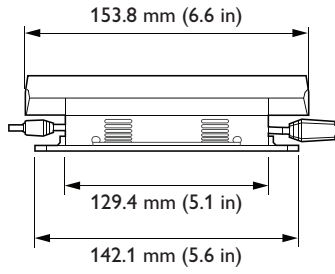
Item	Specification	152 mm (6 in)			305 mm (12 in)			1220 mm (48 in)			
Output	Lumens†	High Power	178			401			1487		
		Low Power	156			329			1274		
	Efficacy (lm / W)	High Power	68.6			82.1			87.1		
		Low Power	73.2			86.9			94.3		
	CRI		88			82			82		
Electrical	Input Voltage	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	120 VAC	240 VAC	277 VAC	
	Power Consumption	High Power	2.8 W	3.5 W	3.8 W	4.0 W	4.2 W	6.0 W	19.0 W	19.0 W	19.0 W
		Low Power	2.2 W	2.7 W	3.0 W	4.0 W	4.2 W	5.0 W	15.0 W	15.0 W	15.0 W
	Power Factor (@ 120 VAC)		.99			.99			.98		
Control	Dimming	Compatible with commercially available reverse-phase ELV-type dimmers§									
Physical	Medium Beam Dimensions (Height x Length x Width)	40 x 152 x 32 mm (1.58 x 6 x 1.25 in)			40 x 305 x 32 mm (1.58 x 12 x 1.25 in)			49 x 1220 x 38 mm (1.90 x 48 x 1.5 in)			
	Weight (with optics)	116 g (0.25 lbs)			186 g (0.41 lbs)			910 g (2 lbs)			
	Housing	Injection-molded plastic, white finish									
	Lens	Clear Polycarbonate									
	Fixture Connections	Integral male / female connectors									
	Temperature Ranges	-20° – 50° C (-4° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage									
	Humidity	0 – 95%, non-condensing									
Fixture Run Length	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 / cUL, FCC Class B, CE, 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.






# Product Selection

To order eW Cove QLX Powercore, select a color temperature, power consumption level (high or low), an input voltage, 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



2700 K    3000 K  
3500 K    4000 K

**2** Choose beam angle

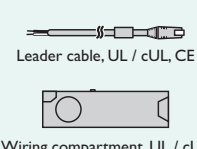
Medium 60x90  
Wide 110x110

**4** Choose voltage

120 VAC  
220 – 240 VAC  
277 VAC

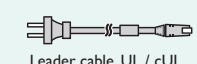
**6** Choose line voltage connection option

**Permanent Installations**



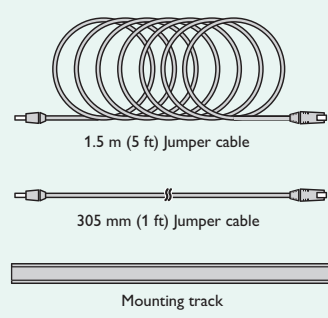
Leader cable, UL / cUL, CE  
Wiring compartment, UL / cUL

**Portable Installations**



Leader cable, UL / cUL

**7** Choose optional accessories

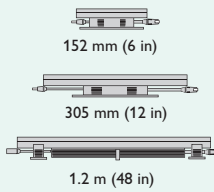


1.5 m (5 ft) Jumper cable  
305 mm (1 ft) Jumper cable  
Mounting track

**3** Choose power level

Low  
High

**5** Choose length



152 mm (6 in)  
305 mm (12 in)  
1.2 m (48 in)

## Ordering Information - 2700 K\*, Wide Beam (110° × 110°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-48	910503705115	523-000091-48	910503705195	523-000092-48	910503705276
	Low	523-000090-16	910503705082	523-000091-16	910503705163	523-000092-16	910503705244
eW Cove QLX Powercore 220-240 VAC	High	523-000090-56	910503705123	523-000091-56	910503705204	523-000092-56	910503705284
	Low	523-000090-24	910503705090	523-000091-24	910503705171	523-000092-24	910503705252
eW Cove QLX Powercore 220-240 VAC Fixture and 3 m (10 ft) Leader Cable with terminator	High	523-000090-64	910503705131	523-000091-64	910503705212	523-000092-64	910503705292
	Low	523-000090-32	910503705098	523-000091-32	910503705179	523-000092-32	910503705260
eW Cove QLX Powercore 277 VAC	High	523-000090-72	910503705139	523-000091-72	910503705220	523-000092-72	910503705301
	Low	523-000090-40	910503705107	523-000091-40	910503705187	523-000092-40	910503705268

Use Item Number when ordering in North America.

## Ordering Information - 2700 K\*, Medium Beam (60° × 90°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-52	910503705119	523-000091-52	910503705199	523-000092-52	910503705280
	Low	523-000090-20	910503705086	523-000091-20	910503705167	523-000092-20	910503705248
eW Cove QLX Powercore 220-240 VAC	High	523-000090-60	910503705127	523-000091-60	910503705208	523-000092-60	910503705288
	Low	523-000090-28	910503705094	523-000091-28	910503705175	523-000092-28	910503705256
eW Cove QLX Powercore 220-240 VAC Fixture and 3 m (10 ft) Leader Cable with terminator	High	523-000090-68	910503705135	523-000091-68	910503705216	523-000092-68	910503705296
	Low	523-000090-36	910503705103	523-000091-36	910503705183	523-000092-36	910503705264
eW Cove QLX Powercore 277 VAC	High	523-000090-76	910503705143	523-000091-76	910503705224	523-000092-76	910503705305
	Low	523-000090-44	910503705111	523-000091-44	910503705191	523-000092-44	910503705272

Use Item Number when ordering in North America.

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



## Ordering Information - 3000 K\*, Wide Beam (110° × 110°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-49	910503705116	523-000091-49	910503705196	523-000092-49	910503705277
	Low	523-000090-17	910503705083	523-000091-17	910503705164	523-000092-17	910503705245
eW Cove QLX Powercore 220-240 VAC	High	523-000090-57	910503705124	523-000091-57	910503705205	523-000092-57	910503705285
	Low	523-000090-25	910503705091	523-000091-25	910503705172	523-000092-25	910503705253
eW Cove QLX Powercore 220-240 VAC <i>Fixture and 3 m (10 ft) Leader Cable with terminator</i>	High	523-000090-65	910503705132	523-000091-65	910503705213	523-000092-65	910503705293
	Low	523-000090-33	910503705099	523-000091-33	910503705180	523-000092-33	910503705261
eW Cove QLX Powercore 277 VAC	High	523-000090-73	910503705140	523-000091-73	910503705221	523-000092-73	910503705302
	Low	523-000090-41	910503705108	523-000091-41	910503705188	523-000092-41	910503705269

Use Item Number when ordering in North America.

## Ordering Information - 3000 K\*, Medium Beam (60° × 90°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-53	910503705120	523-000091-53	910503705201	523-000092-53	910503705281
	Low	523-000090-21	910503705087	523-000091-21	910503705168	523-000092-21	910503705249
eW Cove QLX Powercore 220-240 VAC	High	523-000090-61	910503705128	523-000091-61	910503705209	523-000092-61	910503705289
	Low	523-000090-29	910503705095	523-000091-29	910503705176	523-000092-29	910503705257
eW Cove QLX Powercore 220-240 VAC <i>Fixture and 3 m (10 ft) Leader Cable with terminator</i>	High	523-000090-69	910503705136	523-000091-69	910503705217	523-000092-69	910503705297
	Low	523-000090-37	910503705104	523-000091-37	910503705184	523-000092-37	910503705265
eW Cove QLX Powercore 277 VAC	High	523-000090-77	910503705144	523-000091-77	910503705225	523-000092-77	910503705306
	Low	523-000090-45	910503705112	523-000091-45	910503705192	523-000092-45	910503705273

Use Item Number when ordering in North America.

## Ordering Information - 3500 K\*, Wide Beam (110° × 110°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-50	910503705117	523-000091-50	910503705197	523-000092-50	910503705278
	Low	523-000090-18	910503705084	523-000091-18	910503705165	523-000092-18	910503705246
eW Cove QLX Powercore 220-240 VAC	High	523-000090-58	910503705125	523-000091-58	910503705206	523-000092-58	910503705286
	Low	523-000090-26	910503705092	523-000091-26	910503705173	523-000092-26	910503705254
eW Cove QLX Powercore 220-240 VAC <i>Fixture and 3 m (10 ft) Leader Cable with terminator</i>	High	523-000090-66	910503705133	523-000091-66	910503705214	523-000092-66	910503705294
	Low	523-000090-34	910503705101	523-000091-34	910503705181	523-000092-34	910503705262
eW Cove QLX Powercore 277 VAC	High	523-000090-74	910503705141	523-000091-74	910503705222	523-000092-74	910503705303
	Low	523-000090-42	910503705109	523-000091-42	910503705189	523-000092-42	910503705270

Use Item Number when ordering in North America.

## Ordering Information - 3500 K\*, Medium Beam (60° × 90°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-54	910503705121	523-000091-54	910503705202	523-000092-54	910503705282
	Low	523-000090-22	910503705088	523-000091-22	910503705169	523-000092-22	910503705250
eW Cove QLX Powercore 220-240 VAC	High	523-000090-62	910503705129	523-000091-62	910503705210	523-000092-62	910503705290
	Low	523-000090-30	910503705096	523-000091-30	910503705177	523-000092-30	910503705258
eW Cove QLX Powercore 220-240 VAC <i>Fixture and 3 m (10 ft) Leader Cable with terminator</i>	High	523-000090-70	910503705137	523-000091-70	910503705218	523-000092-70	910503705298
	Low	523-000090-38	910503705105	523-000091-38	910503705185	523-000092-38	910503705266
eW Cove QLX Powercore 277 VAC	High	523-000090-78	910503705145	523-000091-78	910503705226	523-000092-78	910503705305
	Low	523-000090-46	910503705113	523-000091-46	910503705193	523-000092-46	910503705272

Use Item Number when ordering in North America.

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

## Ordering Information - 4000 K\*, Wide Beam (110° × 110°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-51	910503705118	523-000091-51	910503705198	523-000092-51	910503705279
	Low	523-000090-19	910503705085	523-000091-19	910503705166	523-000092-19	910503705247
eW Cove QLX Powercore 220-240 VAC	High	523-000090-59	910503705126	523-000091-59	910503705207	523-000092-59	910503705287
	Low	523-000090-27	910503705093	523-000091-27	910503705174	523-000092-27	910503705255
eW Cove QLX Powercore 220-240 VAC <i>Fixture and 10 ft (3 m) Leader Cable with terminator</i>	High	523-000090-67	910503705134	523-000091-67	910503705215	523-000092-67	910503705295
	Low	523-000090-35	910503705102	523-000091-35	910503705182	523-000092-35	910503705263
eW Cove QLX Powercore 277 VAC	High	523-000090-75	910503705142	523-000091-75	910503705223	523-000092-75	910503705304
	Low	523-000090-43	910503705110	523-000091-43	910503705190	523-000092-43	910503705271

Use Item Number when ordering in North America.

## Ordering Information - 4000 K\*, Medium Beam (60° × 90°)

	Power Level	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 QLX Powercore 120 VAC	High	523-000090-55	910503705122	523-000091-55	910503705203	523-000092-55	910503705283
	Low	523-000090-23	910503705089	523-000091-23	910503705170	523-000092-23	910503705251
eW Cove QLX Powercore 220-240 VAC	High	523-000090-63	910503705130	523-000091-63	910503705211	523-000092-63	910503705291
	Low	523-000090-31	910503705097	523-000091-31	910503705178	523-000092-31	910503705259
eW Cove QLX Powercore 220-240 VAC <i>Fixture and 3 m (10 ft) Leader Cable with terminator</i>	High	523-000090-71	910503705138	523-000091-71	910503705219	523-000092-71	910503705299
	Low	523-000090-39	910503705106	523-000091-39	910503705186	523-000092-39	910503705267
eW Cove QLX Powercore 277 VAC	High	523-000090-79	910503705146	523-000091-79	910503705227	523-000092-79	910503705308
	Low	523-000090-47	910503705114	523-000091-47	910503705194	523-000092-47	910503705275

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

Use Item Number when ordering in North America.

## 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

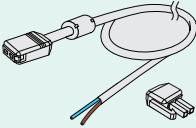
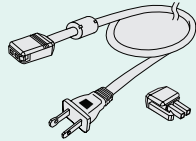
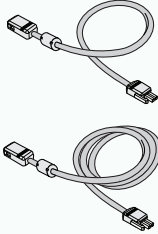
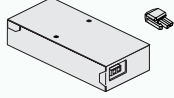
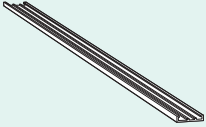
Threshold‡	Ambient Temperature	Reported§	Calculated§
L90	@ 25°C	37,000 hrs	>47,000 hrs
	@ 50°C	17,000 hrs	>17,000 hrs
L80	@ 25°C	37,000 hrs	>107,000 hrs
	@ 50°C	37,000 hrs	>44,000 hrs
L70	@ 25°C	37,000 hrs	>175,000 hrs
	@ 50°C	37,000 hrs	>75,000 hrs

‡ 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.

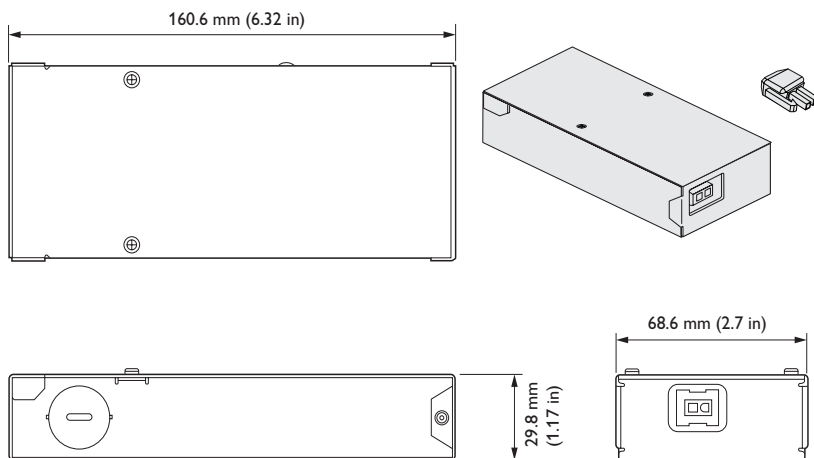
In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-80 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

# Accessories

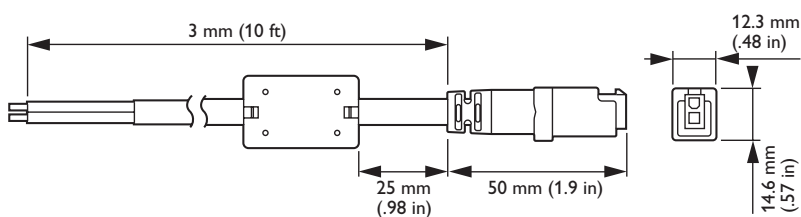
Item	Housing Color	Dimensions	Item Number	Philips 12NC		
Leader Cable (includes terminator), UL / cUL	Black	3 m (10 ft)	108-000032-10	912400130570		For connection to standard junction box
Leader Cable (includes terminator), CE / CCC	Black	3 m (10 ft)	108-000032-11	912400130571		
Leader Cable (includes 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	2.9 x 6.8 x 16 cm (1.17 x 2.7 x 6.32 in) (H x W x L)	120-000076-01	912400130576		Can be used for direct connection to conduit
Mounting Track	White	1220 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 dimensions



## Leader Cable connector dimensions



## Included in the box

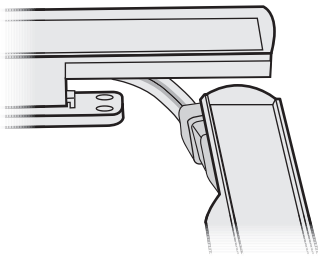
eW Cove QLX Powercore fixture

Installation Instructions

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

## Easy turns

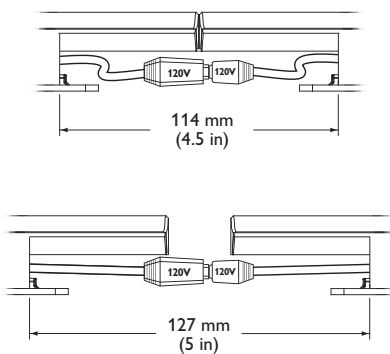
End-to-end locking power connectors can make turns of up to 180° without jumper cables.



✳️ 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 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

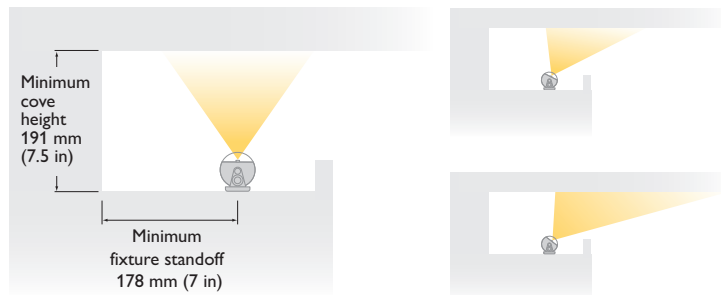
It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Cove QLX Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector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

## Create a Layout Plan

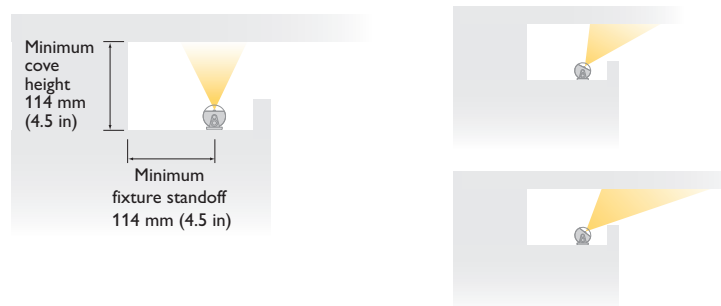
Regardless of the size and complexity of your installation, the time you spend up front can help minimize installation and configuration issues later. Keep these suggestions in mind as you plan your installation:

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° x 110° Beam angle, 180° rotation

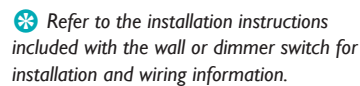


**eW Cove QLX Powercore**  
60° x 90° Beam angle, 180° rotation



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 25 mm (1 in) spacing without a jumper cable. When you need more spacing between fixtures, use the 305 mm (12 in) or 1.5 m (60 in) jumper cables.
4. You can install a run of eW Cove QLX 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.
5. To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from [http://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).

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

## Wall and Dimmer Switches Installation (Optional)

eW Cove QLX Powercore fixtures can be controlled either with a standard wall switch (on / off) or a compatible, commercially available reverse-phase ELV-type dimmer.

For information 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).

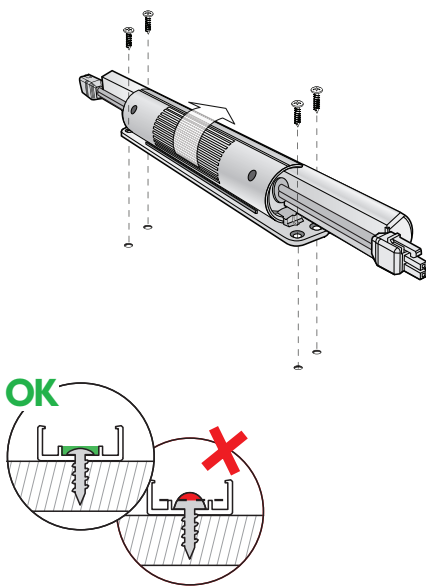
## Prepare for the Installation

1. Verify that all supporting equipment (switches, line power sources) is in place.
2. If your installation calls for jumper cables to add space between fixtures, make sure they are available.
3. 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 1.2 m (4 ft) lengths of mounting track to ensure a straight run.

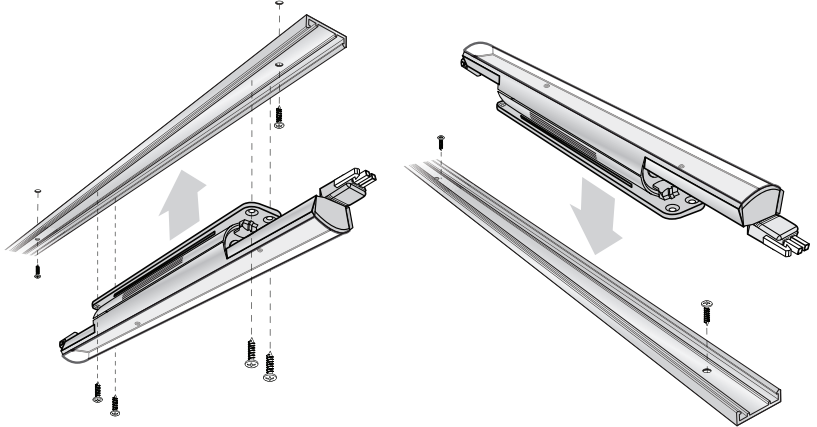
\* You can use the fixture base as a template when pre-drilled pilot holes are required. Hold the fixture in place and mark the screw holes. There are two separate bases on the 48 in eW Cove fixture.



### Install Mounting Tracks (Optional)

1. Field-cut the mounting tracks to the desired length with a hacksaw or tin snips.
2. 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 305 mm (12 in).



### Mount and Connect the Fixtures

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

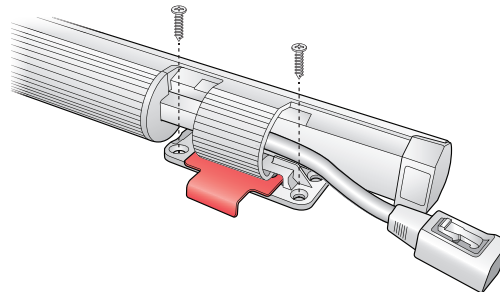
1. Rotate an eW Cove QLX Powercore fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

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 3.5 mm (#6) mounting screws (not included) suitable for the mounting surface (eight mounting screws on the 1220 mm [48 in] fixture).

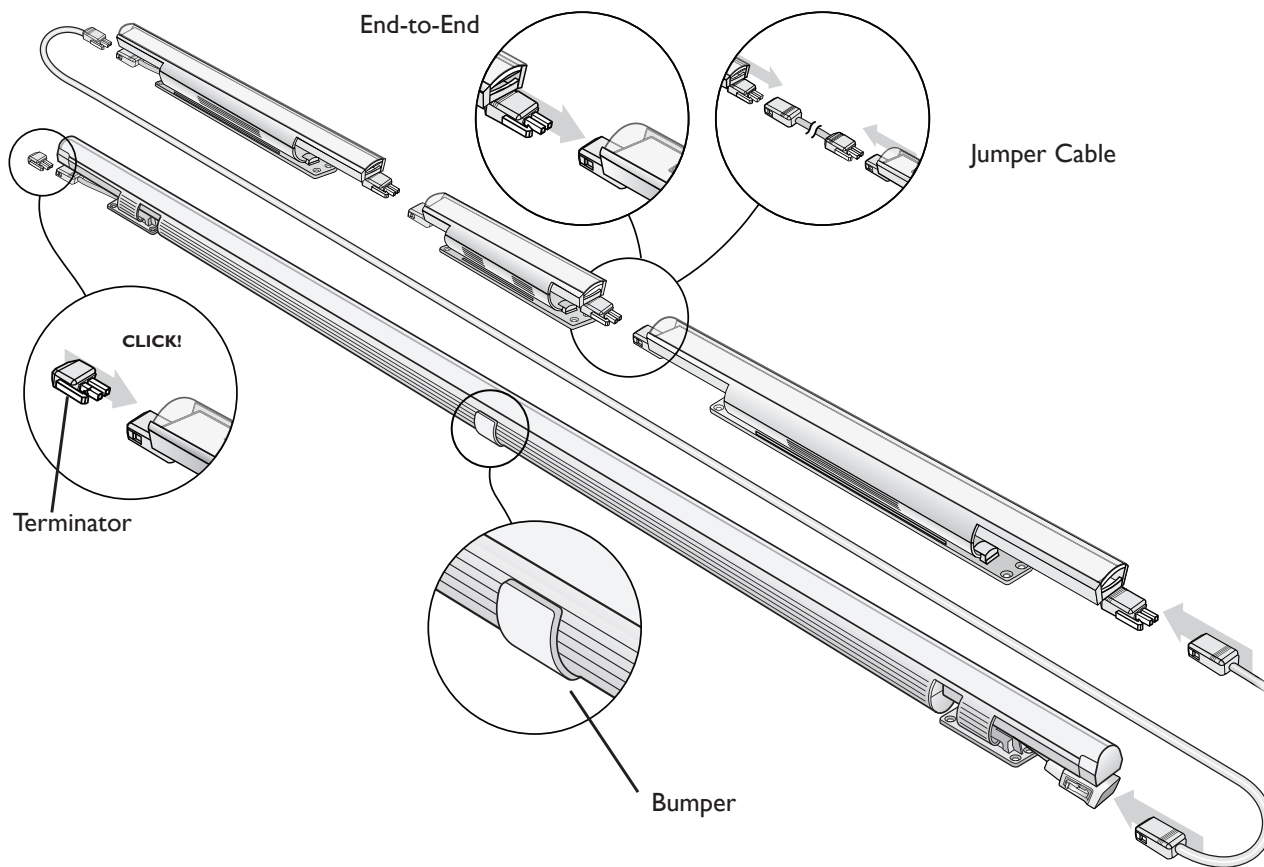
Ensure that the male connector is in position to receive power from the female connector on the Leader Cable or Wiring Compartment.

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.



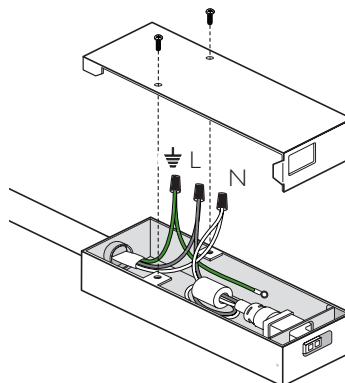
The 1220 mm (48 in) fixtures also have a bumper strip in the middle to protect the fixture from flex and vibration. Do not remove it.

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.



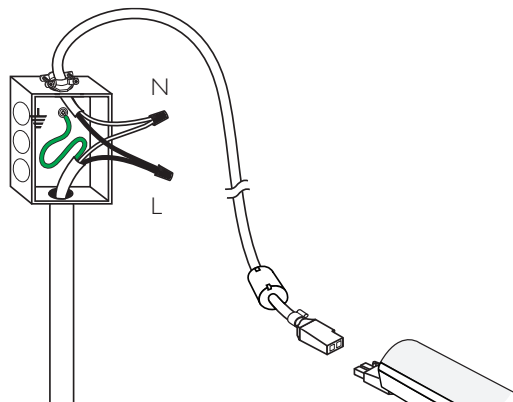
**To run power or conduit to the first fixture in a series (permanent, UL / cUL installations):**

- 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):**

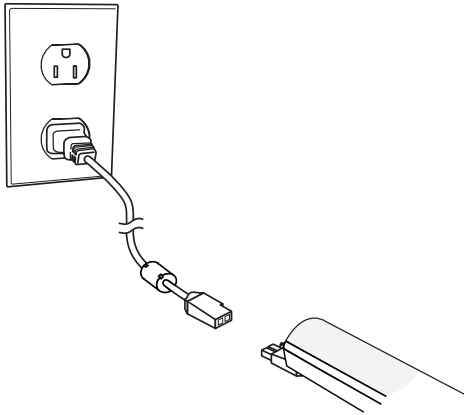
- Remove the cover of the third-party junction box.
- Connect ground, neutral, and line inside the junction box housing, then replace the junction box cover.
- Connect the 3 m (10 ft) Leader Cable to the first fixture in the series.





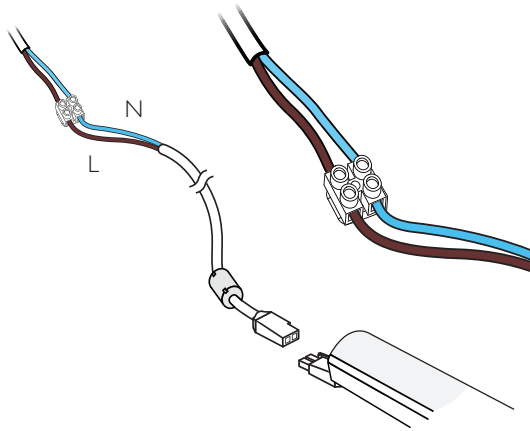
**For portable installations (UL / cUL):**

- 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.

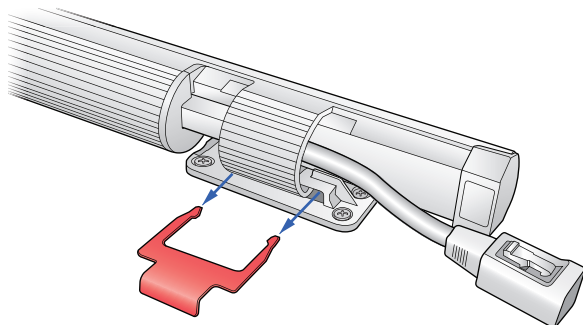


## Aim the Fixtures

Make sure the power is ON before aiming fixtures. 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.

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



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