eW Fuse Powercore

Linear interior LED wall grazing fixture with solid white light

PHILIPS

COLOR KINETICS

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Linear interior LED wall grazing fixture with solid white light

With narrow and medium beams of intense white light, eW Fuse Powercore is an excellent choice for a full range of surface grazing and wall-washing applications. Its ultra-compact form factor permits installation in tight spaces too small to accommodate conventional grazing fixtures with similar light output. eW Fuse Powercore meets or exceeds the performance of comparable linear fluorescent grazing fixtures while lowering installation, energy, and maintenance costs. Fixtures offer environmentally-conscious buyers a green, energy-efficient grazing fixture with industry-leading quality and quantity of light.

- Lower cost than comparable fluorescent grazing fixtures — With long useful source life and low-maintenance operation, eW Fuse Powercore represents a cost-effective alternative to traditional grazing fixtures.
- High-performance illumination and beam quality — eW Fuse Powercore is available in 1 ft (305 mm) and 4 ft (1.2 m) die-cast aluminum housings with a 10° x 60° or 30° x 60° beam angle. Interlocking connectors accommodate end-to-end placement without visible light scalloping between fixtures.
- Multiple levels of power consumption — 12.5 W / ft fixtures offer high-intensity light output of over 550 lumens per foot. 8 W / ft fixtures are factory-set to a lower maximum power consumption level to support ASHRAE standards, LEED green building certification, and other power-limited projects.
- Multiple color temperatures — Available in 2700 K, 3000 K, 3500 K, and 4000 K color temperatures for applications calling for warm, neutral, or cool white light.
- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power directly from line voltage, eliminating the need for an external power supply. Contractor-friendly installation dramatically simplifies installation and lowers total system cost.
- Support for multiple voltages — Accepts power input of 100 – 277 VAC for consistent installation and operation from line voltage in a variety of locations.
- Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.
- Simple installation — Powercore integrated power management technology simplifies installation and allows long product runs. Easy-to-install 4 ft (1.2 m) mounting tracks allow quick project setup in linear applications.
- Easy mounting and positioning — With end-to-end locking power connectors that can make 180° turns, eW Fuse Powercore fixtures are easy to position in even the most challenging mounting circumstances. Fixtures rotate in 10° increments through 180° for precise aiming and color mixing. Optional mounting tracks support vertical and overhead positioning. 1 ft (305 mm) and 5 ft (1.5 m) jumper cables can add extra space between fixtures.

Superior Binning Algorithm sets new standard for color consistency

eW Fuse Powercore exceeds the recognized standards for color quality to guarantee uniformity and consistency of hue and color temperature across LEDs, fixtures, and manufacturing runs.

Setting New Standards for Color Consistency

Achieving consistency of color temperature and hue in linear white lighting applications is one of the most difficult challenges facing lighting designers and installers. Wall-grazing applications can be challenging, as light sources must be positioned very close to the illuminated surfaces with little room for color mixing. Viewed from a distance, even small variations in color temperature and hue are clearly visible.

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

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

eW Fuse Powercore incorporates an improved version of the proprietary Optibin binning algorithm used in the entire range of new white-light LED cove and wall-grazing fixtures from Philips Color Kinetics. Optibin's advanced bin selection formula sets new standards for color consistency and uniformity across LEDs. Optibin allows significantly smaller variations in color temperature (CCT) and hue (Duv) than ANSI Chromaticity Standard C78.377A, ensuring virtually imperceptible differences in output from LED to LED and fixture to fixture.

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

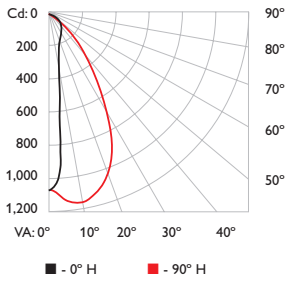
Photometrics / eW Fuse Powercore, 1 ft (305 mm), 12.5 W / ft

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

2700 K, 10° x 60° beam angle

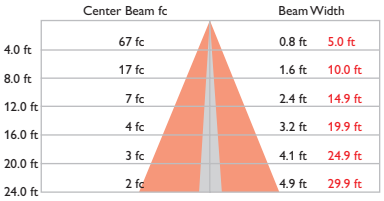
Lumens	Efficacy
553	45.7 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1078	1078	1078	1078	1078
5	660	715	881	1063	1127
15	191	192	216	520	1110
25	151	144	148	205	868
35	113	111	108	120	466
45	118	100	72	47	88
55	63	55	39	24	32
65	39	32	20	15	18
75	22	19	12	8	8
85	11	10	6	3	1
90	8	8	4	2	0

Illuminance at Distance



32.9 ft (10.0 m)
1 fc maximum distance

Vert. Spread: 11.6°
Horiz. Spread: 63.8°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	104	102	108	105	102	100	101	98	96	97	95	93	93	91	90	88
2	104	98	93	89	102	96	92	88	92	89	85	89	86	83	86	83	81	79
3	98	90	84	79	95	88	83	78	85	81	77	82	78	75	80	77	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	72	68	74	71	67	66
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	65	62	60
6	82	71	65	60	80	71	64	59	69	63	59	67	62	58	65	61	58	56
7	77	67	60	55	76	66	60	55	64	59	54	63	58	54	62	57	54	52
8	73	63	56	51	72	62	56	51	61	55	51	59	54	50	58	54	50	49
9	70	59	53	48	68	58	52	48	57	52	48	56	51	47	55	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43

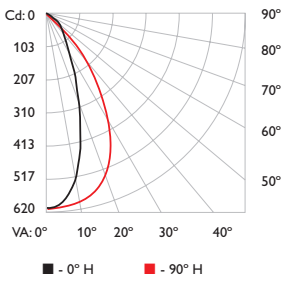
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	301	54.4
0- 40	396	71.6
0- 60	496	89.7
0- 90	541	97.8
90-120	9	1.7
90-130	11	2.0
90-150	12	2.2
90-180	12	2.2
0-180	553	100.0

2700 K, 30° x 60° beam angle

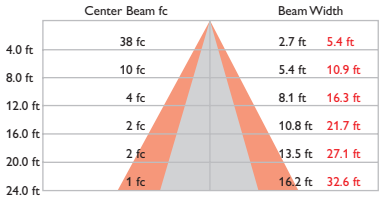
Lumens	Efficacy
573	47.0 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	615	615	615	615	615
5	598	603	607	611	612
15	394	421	494	559	580
25	183	203	283	417	470
35	98	98	128	227	308
45	60	60	62	73	90
55	39	36	33	28	32
65	29	24	18	16	19
75	18	15	10	9	8
85	9	8	6	4	2
90	7	7	5	2	1

Illuminance at Distance



24.8 ft (7.6 m)
1 fc maximum distance

Vert. Spread: 37.3°
Horiz. Spread: 68.3°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	93	93	92	90	88
2	105	99	94	90	102	97	92	89	93	89	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	81	78	83	79	76	81	77	75	73
4	93	84	77	72	90	82	76	72	80	75	71	78	73	70	75	72	69	67
5	87	78	71	66	85	77	70	66	74	69	65	72	68	64	71	67	63	62
6	82	72	66	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	76	67	60	56	65	60	55	64	59	55	62	58	55	53
8	74	63	57	52	72	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43

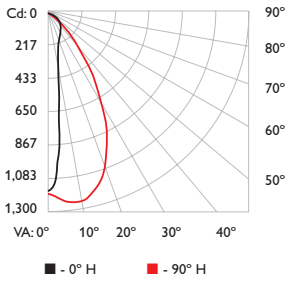
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	333	58.2
0- 40	436	76.1
0- 60	521	90.9
0- 90	560	97.8
90-120	10	1.8
90-130	12	2.0
90-150	13	2.2
90-180	13	2.2
0-180	573	100.0

3000 K, 10° x 60° beam angle

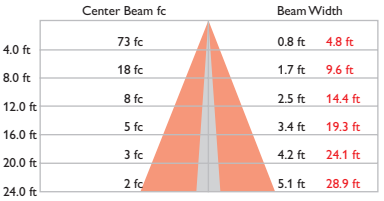
Lumens	Efficacy
594	50.3 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1172	1172	1172	1172	1172
5	727	783	950	1140	1218
15	187	194	239	592	1177
25	164	155	146	240	889
35	122	119	114	130	464
45	124	105	79	50	90
55	66	58	39	25	34
65	39	32	20	15	20
75	23	19	12	8	8
85	13	11	7	4	2
90	10	9	6	3	0

Illuminance at Distance



34.2 ft (10.4 m)
1 fc maximum distance

Vert. Spread: 12.1°
Horiz. Spread: 62.1°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	107	104	101	108	105	102	100	98	96	96	94	92	92	91	89	87
2	104	98	93	89	101	96	91	88	92	88	85	89	86	83	85	83	81	79
3	98	90	84	79	95	88	83	78	85	80	77	82	78	75	79	76	73	71
4	92	83	76	71	90	81	75	71	79	74	69	76	72	68	74	70	67	65
5	87	77	70	65	85	76	69	65	73	68	64	71	67	63	69	65	62	60
6	82	72	65	60	80	71	64	59	69	63	59	67	62	58	65	61	57	56
7	77	67	60	55	76	66	60	55	64	59	55	63	58	54	61	57	54	52
8	73	63	56	52	72	62	56	51	61	55	51	59	54	51	58	54	50	49
9	70	59	53	48	68	59	52	48	57	52	48	56	51	47	55	51	47	46
10	67	56	50	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43

Zonal Lumen

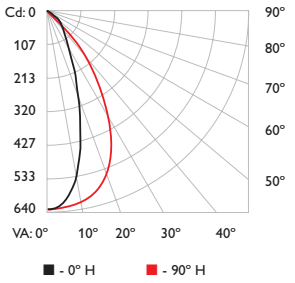
ZONE	LUMENS	%FIXT
0- 30	324	54.6
0- 40	424	71.4
0- 60	529	89.1
0- 90	576	96.9
90-120	13	2.2
90-130	16	2.6
90-150	18	3.0
90-180	18	3.1
0-180	594	100.0

For lux multiply fc by 10.7

3000 K, 30° x 60° beam angle

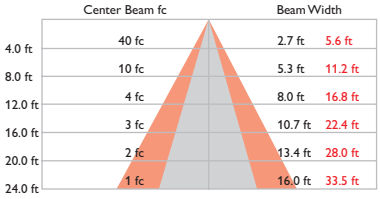
Lumens	Efficacy
587	47.7 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1172	1172	1172	1172	1172
5	727	783	950	1140	1218
15	187	194	239	592	1177
25	164	155	146	240	889
35	122	119	114	130	464
45	124	105	79	50	90
55	66	58	39	25	34
65	39	32	20	15	20
75	23	19	12	8	8
85	13	11	7	4	2
90	10	9	6	3	0

Illuminance at Distance



25.2 ft (7.7 m)
1 fc maximum distance

Vert. Spread: 36.9°
Horiz. Spread: 69.9°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	93	93	92	90	88	
2	105	99	94	90	102	97	92	88	93	89	86	90	87	84	86	84	82	80	
3	98	91	85	80	96	89	83	79	86	81	77	83	79	76	80	77	75	73	
4	92	84	77	72	90	82	76	72	80	75	70	77	73	69	75	71	68	67	
5	87	77	71	66	85	76	70	65	74	69	65	72	67	64	70	66	63	61	
6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	66	62	58	57	
7	78	67	61	56	76	67	60	56	65	59	55	64	58	55	62	58	54	53	
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	
9	70	59	53	48	69	59	53	48	58	52	48	57	51	48	56	51	47	46	
10	67	56	50	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43	

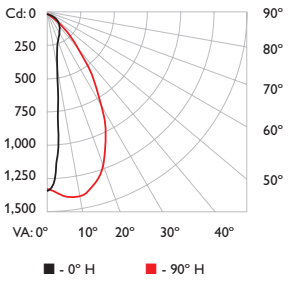
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	339	57.8
0- 40	443	75.5
0- 60	532	90.7
0- 90	575	97.9
90-120	10	1.6
90-130	11	1.9
90-150	12	2.1
90-180	12	2.1
0-180	587	100.0

3500 K, 10° x 60° beam angle

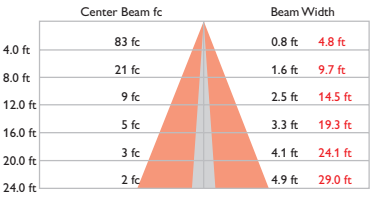
Lumens	Efficacy
657	54.3 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1324	1324	1324	1324	1324
5	797	862	1056	1285	1380
15	217	219	255	639	1337
25	180	170	171	252	1008
35	137	132	129	143	532
45	140	118	87	54	94
55	72	64	44	29	38
65	46	37	24	18	24
75	27	22	14	10	11
85	13	12	7	4	2
90	10	9	5	2	0

Illuminance at Distance



36.3 ft (11.1 m)
1 fc maximum distance

Vert. Spread: 11.7°
Horiz. Spread: 62.2°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	98
1	111	108	104	102	108	105	102	100	101	98	96	96	95	93	93	91	90	88	
2	104	98	93	89	102	96	92	88	92	89	85	89	86	83	86	83	81	79	
3	98	90	84	79	95	88	83	78	85	81	77	82	78	75	80	76	74	72	
4	92	83	76	71	90	82	75	71	79	74	70	77	72	69	74	71	67	66	
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	70	66	62	60	
6	82	72	65	60	80	71	64	59	69	63	59	67	62	58	65	61	58	56	
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	57	54	52	
8	73	63	56	52	72	62	56	51	61	55	51	60	54	51	58	54	50	49	
9	70	59	53	48	69	59	52	48	57	52	48	56	51	48	55	51	47	46	
10	67	56	50	45	65	55	49	45	54	49	45	53	48	45	53	48	45	43	

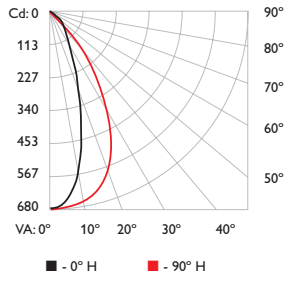
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	359	54.7
0- 40	471	71.7
0- 60	588	89.5
0- 90	642	97.7
90-120	12	1.8
90-130	14	2.1
90-150	15	2.3
90-180	15	2.3
0-180	657	100.0

3500 K, 30° x 60° beam angle

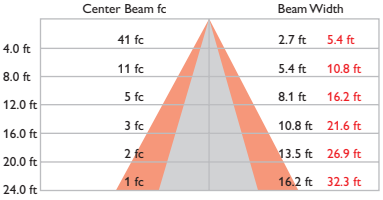
Lumens	Efficacy
627	52.3 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	676	676	676	676	676
5	657	658	666	672	674
15	432	460	541	614	639
25	201	225	313	455	509
35	107	109	142	239	316
45	65	66	68	79	95
55	43	39	36	32	37
65	30	26	20	19	22
75	19	16	12	10	9
85	11	10	7	4	2
90	9	8	6	3	1

Illuminance at Distance



26.0 ft (7.9 m)
1 fc maximum distance

Vert. Spread: 37.3°
Horiz. Spread: 67.9°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	98
1	111	108	105	102	109	105	103	100	101	99	97	97	95	93	93	91	90	88	
2	105	99	94	90	102	97	92	88	93	89	86	90	86	84	86	84	82	80	
3	98	91	85	80	96	89	84	79	86	81	78	83	79	76	80	77	75	73	
4	92	84	77	72	90	82	76	72	80	75	71	77	73	69	75	71	68	67	
5	87	78	71	66	85	76	70	65	74	69	65	72	68	64	70	66	63	61	
6	82	72	65	61	81	71	65	60	69	64	60	68	63	59	66	62	58	57	
7	78	68	61	56	76	67	60	56	65	59	55	64	59	55	62	58	54	53	
8	74	63	57	52	72	63	56	52	61	56	52	60	55	51	59	54	51	49	
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46	
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43	

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	365	58.3
0- 40	476	75.8
0- 60	568	90.6
0- 90	612	97.7
90-120	12	2.0
90-130	14	2.2
90-150	15	2.3
90-180	15	2.3
0-180	627	100.0

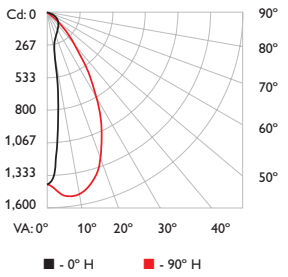
For lux multiply fc by 10.7

Photometrics / eW Fuse Powercore, 1 ft (305 mm), 12.5 W / ft, continued

4000 K, 10° x 60° beam angle

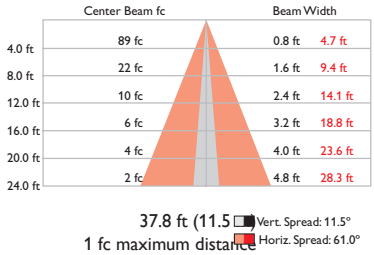
Lumens	Efficacy
697	58.1 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1430	1430	1430	1430	1430
5	846	920	1157	1404	1499
15	212	217	264	679	1443
25	189	182	168	271	1076
35	139	140	135	149	555
45	145	123	93	58	104
55	76	67	47	30	41
65	50	38	25	19	26
75	28	23	15	11	12
85	14	14	9	5	3
90	12	11	7	4	1

Illuminance at Distance



37.8 ft (11.5 m) Vert. Spread: 11.5°
1 fc maximum distance Horiz. Spread: 61.0°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	111	108	104	101	108	105	102	100	100	98	96	96	94	93	92	91	90	88
2	104	98	93	89	101	96	91	88	92	88	85	89	86	83	86	83	81	79
3	98	90	84	79	95	88	83	78	85	80	77	82	78	75	80	76	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	72	68	74	71	67	66
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	70	65	62	60
6	82	72	65	60	80	71	64	59	69	63	59	67	62	58	65	61	58	56
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	57	54	52
8	74	63	56	52	72	62	56	51	61	55	51	60	54	51	58	54	50	49
9	70	59	53	48	69	59	53	48	58	52	48	56	51	48	55	51	47	46
10	67	56	50	46	65	56	50	45	55	49	45	54	49	45	53	48	45	43

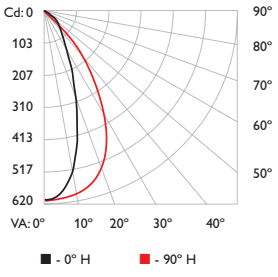
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	382	54.8
0- 40	499	71.5
0- 60	622	89.2
0- 90	680	97.5
90-120	14	2.0
90-130	16	2.3
90-150	17	2.5
90-180	17	2.5
0-180	697	100.0

4000 K, 30° x 60° beam angle

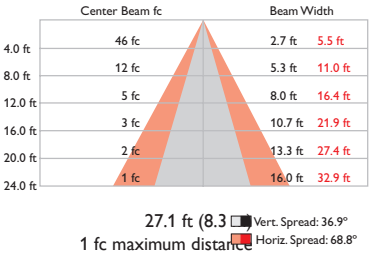
Lumens	Efficacy
677	57.9 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	738	738	738	738	738
5	713	718	727	732	734
15	468	496	583	662	689
25	211	236	335	495	556
35	114	114	149	265	356
45	71	71	72	88	112
55	46	42	39	35	41
65	33	28	21	19	23
75	20	17	12	10	10
85	12	10	7	5	2
90	10	9	6	3	1

Illuminance at Distance



27.1 ft (8.3 m) Vert. Spread: 36.9°
1 fc maximum distance Horiz. Spread: 68.8°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	111	108	105	102	109	105	103	100	101	99	97	97	95	93	93	92	90	88
2	105	99	94	90	102	97	92	88	93	89	86	90	87	84	86	84	82	80
3	98	91	85	80	96	89	84	79	86	81	78	83	79	76	81	77	75	73
4	93	84	77	72	90	82	76	72	80	75	71	77	73	70	75	72	68	67
5	87	78	71	66	85	77	70	66	74	69	65	72	68	64	70	66	63	61
6	82	72	66	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	76	67	60	56	65	60	55	64	59	55	62	58	54	53
8	74	63	57	52	72	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	394	58.2
0- 40	514	75.8
0- 60	615	90.7
0- 90	661	97.6
90-120	13	1.9
90-130	15	2.2
90-150	16	2.4
90-180	16	2.4
0-180	677	100.0

For lux multiply fc by 10.7

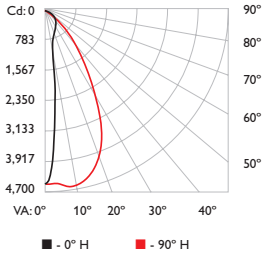
Photometrics / eW Fuse Powercore, 4 ft (1.2 m), 12.5 W / ft

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

2700 K, 10° x 60° beam angle

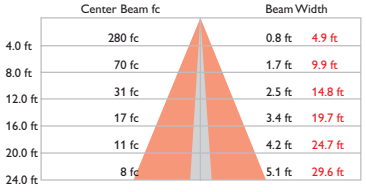
Lumens	Efficacy
2290	48.2 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	4473	4473	4473	4473	4473
5	2741	2931	3517	4231	4557
15	722	735	887	2194	4407
25	606	597	576	900	3354
35	458	454	451	499	1800
45	447	393	306	201	397
55	240	219	161	103	133
65	159	128	84	63	81
75	89	78	49	34	36
85	46	43	27	14	5
90	37	36	21	9	0

Illuminance at Distance



67.0 ft (10.0 m) 1 fc maximum distance

Vert. Spread: 12.1°
Horiz. Spread: 63.3°

Coefficients Of Utilization - Zonal Cavity Method

	Effective Floor Cavity Reflectance: 20%												
RC	80			70			50		30		10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	100	97
1	111	107	104	101	108	105	102	100	100	98	96	96	94	93	92	91	89	87
2	104	98	93	89	101	96	91	87	92	88	85	89	86	83	85	83	81	79
3	98	90	84	79	95	88	82	78	85	80	76	82	78	75	79	76	73	71
4	92	83	76	71	90	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	77	70	65	84	75	69	64	73	68	63	71	66	63	69	65	62	60
6	82	71	64	59	80	70	64	59	68	63	58	67	62	58	65	61	57	55
7	77	67	60	55	76	66	59	55	64	58	54	63	58	54	61	57	53	52
8	73	62	56	51	72	62	55	51	60	55	51	59	54	50	58	53	50	48
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	52	47	44	43

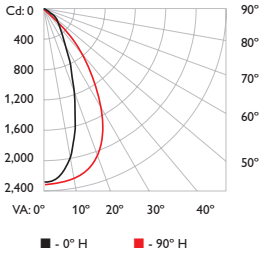
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1240	54.1
0- 40	1631	71.2
0- 60	2042	89.2
0- 90	2231	97.4
90-120	45	2.0
90-130	53	2.3
90-150	59	2.6
90-180	59	2.6
0-180	2290	100.0

2700 K, 30° x 60° beam angle

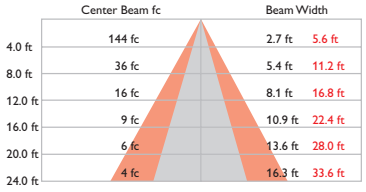
Lumens	Efficacy
2144	45.9 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2310	2310	2310	2310	2310
5	2248	2253	2270	2291	2314
15	1462	1559	1845	2095	2186
25	675	751	1050	1581	1791
35	366	368	476	850	1159
45	223	228	235	275	353
55	145	131	125	105	122
65	105	92	68	60	70
75	65	56	39	32	30
85	33	31	22	13	6
90	26	25	16	7	0

Illuminance at Distance



48.0 ft (7.6 m) 1 fc maximum distance

Vert. Spread: 37.5°
Horiz. Spread: 70.0°

Coefficients Of Utilization - Zonal Cavity Method

	Effective Floor Cavity Reflectance: 20%												
RC	80			70			50		30		10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	93	92	91	89
2	105	99	94	90	102	97	92	89	93	90	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	82	78	83	80	76	81	78	75	73
4	93	84	77	72	91	82	77	72	80	75	71	78	73	70	75	72	69	67
5	87	78	71	66	85	77	70	66	74	69	65	73	68	64	71	67	63	62
6	82	72	66	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43

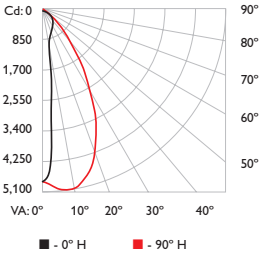
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1249	58.3
0- 40	1634	76.2
0- 60	1953	91.1
0- 90	2099	97.9
90-120	34	1.6
90-130	40	1.9
90-150	44	2.1
90-180	44	2.1
0-180	2144	100.0

3000 K, 10° x 60° beam angle

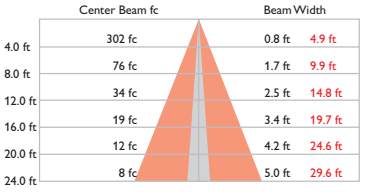
Lumens	Efficacy
2431	51.5 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	4832	4832	4832	4832	4832
5	2993	3205	3861	4632	4952
15	747	763	920	2337	4830
25	650	625	586	930	3676
35	474	481	466	516	1966
45	490	418	319	204	415
55	267	239	169	103	139
65	171	136	87	64	85
75	97	83	51	36	39
85	47	45	27	14	5
90	38	36	20	8	0

Illuminance at Distance



69.5 ft (10.4 m) 1 fc maximum distance

Vert. Spread: 12.0°
Horiz. Spread: 63.3°

Coefficients Of Utilization - Zonal Cavity Method

	Effective Floor Cavity Reflectance: 20%												
RC	80			70			50		30		10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	98
1	111	108	104	102	108	105	102	100	101	98	96	96	95	93	93	91	90	88
2	104	98	93	89	102	96	91	88	92	89	85	89	86	83	86	83	81	79
3	98	90	84	79	95	88	83	78	85	80	77	82	78	75	80	76	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	72	68	74	71	67	66
5	87	77	70	65	85	76	69	64	73	68	64	71	67	63	70	65	62	60
6	82	71	65	60	80	71	64	59	69	63	59	67	62	58	65	61	58	56
7	77	67	60	55	76	66	60	55	64	59	55	63	58	54	62	57	54	52
8	73	63	56	51	72	62	56	51	61	55	51	59	54	51	58	54	50	49
9	70	59	53	48	68	59	52	48	57	52	48	56	51	47	55	51	47	46
10	67	56	50	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1328	54.6
0- 40	1741	71.6
0- 60	2175	89.5
0- 90	2373	97.7
90-120	43	1.8
90-130	51	2.1
90-150	57	2.3
90-180	57	2.3
0-180	2431	100.0

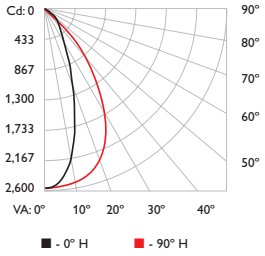
For lux multiply fc by 10.7

Photometrics / eW Fuse Powercore, 4 ft (1.2 m), 12.5 W / ft, continued

3000 K, 30° x 60° beam angle

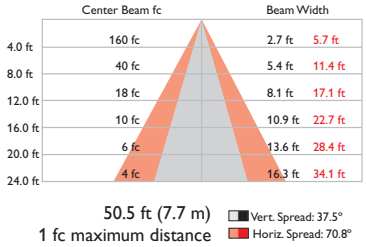
Lumens	Efficacy
2378	49.9 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2554	2554	2554	2554	2554
5	2489	2490	2507	2534	2558
15	1620	1727	2043	2319	2430
25	745	827	1154	1767	2002
35	403	403	522	946	1318
45	246	250	258	307	405
55	162	144	137	115	135
65	118	101	74	66	77
75	74	62	43	35	34
85	36	33	23	14	6
90	29	27	17	8	0

Illuminance at Distance



50.5 ft (7.7 m) Vert. Spread: 37.5°
1 fc maximum distance Horiz. Spread: 70.8°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	93	92	91	88
2	105	99	94	90	102	97	92	89	93	89	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	82	78	83	80	76	81	78	75	73
4	93	84	77	72	90	82	76	72	80	75	71	78	73	70	75	72	69	67
5	87	78	71	66	85	77	70	66	74	69	65	73	68	64	71	67	63	62
6	82	72	66	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	76	67	60	56	65	60	55	64	59	55	62	58	55	53
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43

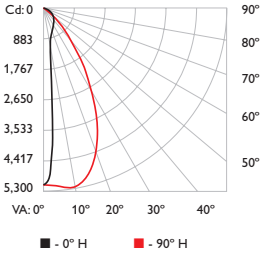
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1384	58.2
0- 40	1812	76.2
0- 60	2166	91.1
0- 90	2328	97.9
90-120	38	1.6
90-130	45	1.9
90-150	50	2.1
90-180	50	2.1
0-180	2378	100.0

3500 K, 10° x 60° beam angle

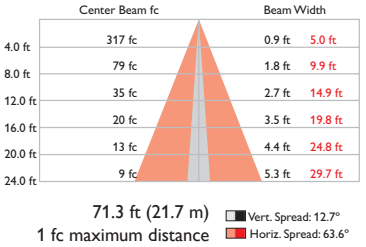
Lumens	Efficacy
2624	55.4 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	5075	5075	5075	5075	5075
5	3162	3374	4025	4814	5175
15	825	843	1023	2556	5024
25	693	676	654	1037	3844
35	526	516	508	575	2073
45	516	452	347	227	443
55	285	257	184	116	150
65	185	148	97	72	92
75	103	90	57	40	43
85	51	49	31	17	7
90	41	40	24	10	1

Illuminance at Distance



71.3 ft (21.7 m) Vert. Spread: 12.7°
1 fc maximum distance Horiz. Spread: 63.6°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	97
1	111	107	104	101	108	105	102	100	100	98	96	96	94	93	92	91	90	87
2	104	98	93	89	101	96	91	87	92	88	85	89	86	83	85	83	81	79
3	98	90	84	79	95	88	82	78	85	80	76	82	78	75	79	76	73	71
4	92	83	76	71	90	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	77	70	65	84	75	69	64	73	68	63	71	66	63	69	65	62	60
6	82	71	64	59	80	70	64	59	68	63	58	67	62	58	65	61	57	55
7	77	67	60	55	76	66	59	55	64	58	54	63	58	54	61	57	53	52
8	73	62	56	51	72	62	55	51	60	55	51	59	54	50	58	53	50	48
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	52	47	44	43

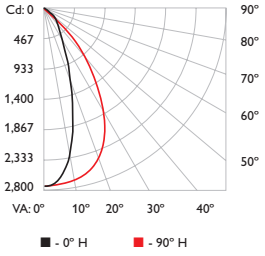
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1421	54.1
0- 40	1869	71.2
0- 60	2340	89.2
0- 90	2558	97.5
90-120	50	1.9
90-130	59	2.2
90-150	66	2.5
90-180	66	2.5
0-180	2624	100.0

3500 K, 30° x 60° beam angle

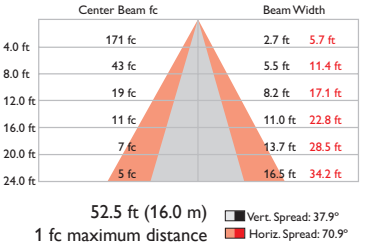
Lumens	Efficacy
1826	38.9 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2743	2743	2743	2743	2743
5	2669	2672	2695	2724	2747
15	1763	1870	2211	2503	2614
25	821	909	1258	1909	2151
35	442	442	572	1026	1421
45	267	271	284	330	425
55	177	158	150	125	145
65	129	111	82	72	84
75	81	68	48	39	37
85	40	37	26	15	7
90	33	30	20	9	0

Illuminance at Distance



52.5 ft (16.0 m) Vert. Spread: 37.9°
1 fc maximum distance Horiz. Spread: 70.9°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	93	92	90	88
2	105	99	94	90	102	97	92	89	93	89	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	81	78	83	79	76	81	77	75	73
4	93	84	77	72	90	82	76	72	80	75	71	78	73	70	75	72	69	67
5	87	78	71	66	85	77	70	66	74	69	65	72	68	64	71	66	63	61
6	82	72	65	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	76	67	60	56	65	59	55	64	59	55	62	58	54	53
8	74	63	57	52	72	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	45	55	49	45	54	49	45	53	48	45	43

Zonal Lumen

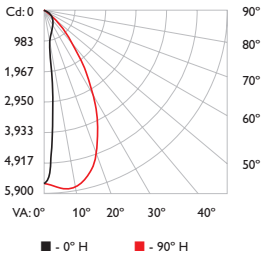
ZONE	LUMENS	%FIXT
0- 30	1498	58.0
0- 40	1963	76.1
0- 60	2347	91.0
0- 90	2525	97.9
90-120	43	1.7
90-130	50	1.9
90-150	55	2.1
90-180	55	2.1
0-180	2580	100.0

For lux multiply fc by 10.7

4000 K, 10° x 60° beam angle

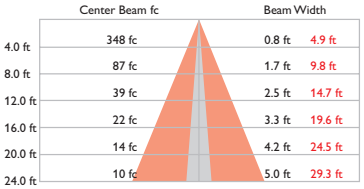
Lumens	Efficacy
2810	60.2 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	5565	5565	5565	5565	5565
5	3380	3627	4389	5316	5724
15	878	893	1070	2700	5554
25	755	733	690	1090	4213
35	556	557	549	604	2245
45	563	482	374	238	465
55	304	274	194	123	162
65	197	158	102	76	99
75	110	95	59	41	44
85	55	51	31	16	6
90	44	42	24	9	0

Illuminance at Distance



74.5 ft (22.7 m)
1 fc maximum distance

Vert. Spread: 11.9°
Horiz. Spread: 62.9°

Coefficients Of Utilization - Zonal Cavity Method

	Effective Floor Cavity Reflectance: 20%													
RC	80			70			50		30		10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	111	108	104	102	108	105	102	100	101	98	96	96	95	93	93	91	90	88
2	104	98	93	89	102	96	91	88	92	89	85	89	86	83	86	83	81	79
3	98	90	84	79	95	88	83	78	85	80	77	82	78	75	80	76	74	72
4	92	83	76	71	90	81	75	71	79	74	69	77	72	68	74	70	67	66
5	87	77	70	65	85	76	69	64	73	68	64	71	67	63	70	65	62	60
6	82	71	65	60	80	70	64	59	69	63	59	67	62	58	65	61	57	56
7	77	67	60	55	76	66	60	55	64	59	54	63	58	54	62	57	54	52
8	73	63	56	51	72	62	56	51	61	55	51	59	54	50	58	54	50	49
9	70	59	53	48	68	58	52	48	57	52	48	56	51	47	55	50	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43

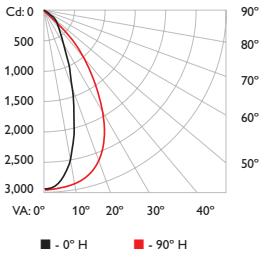
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1532	54.5
0- 40	2012	71.6
0- 60	2516	89.5
0- 90	2745	97.7
90-120	50	1.8
90-130	59	2.1
90-150	65	2.3
90-180	65	2.3
0-180	2810	100.0

4000 K, 30° x 60° beam angle

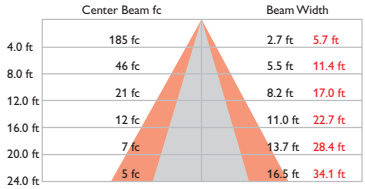
Lumens	Efficacy
2788	59.2 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2961	2961	2961	2961	2961
5	2878	2880	2905	2938	2961
15	1900	2020	2378	2694	2820
25	887	985	1360	2051	2318
35	476	480	624	1112	1527
45	288	293	308	362	468
55	190	170	162	136	159
65	139	121	89	78	91
75	87	74	52	42	40
85	43	40	28	17	9
90	35	32	21	10	2

Illuminance at Distance



54.4 ft (16.6 m)
1 fc maximum distance

Vert. Spread: 37.9°
Horiz. Spread: 70.8°

Coefficients Of Utilization - Zonal Cavity Method

	Effective Floor Cavity Reflectance: 20%													
RC	80			70			50		30		10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	93	93	92	90	88
2	105	99	94	90	102	97	92	88	93	89	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	81	78	83	79	76	81	77	75	73
4	93	84	77	72	90	82	76	72	80	75	71	77	73	70	75	72	68	67
5	87	78	71	66	85	76	70	65	74	69	65	72	68	64	71	66	63	61
6	82	72	65	61	81	71	65	60	69	64	60	68	63	59	66	62	58	57
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	62	58	54	53
8	74	63	57	52	72	63	56	52	61	56	51	60	55	51	59	54	51	49
9	70	59	53	49	69	59	53	48	58	52	48	57	51	48	56	51	48	46
10	67	56	50	46	65	56	49	45	55	49	45	54	49	45	53	48	45	43

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1615	57.9
0- 40	2118	76.0
0- 60	2535	90.9
0- 90	2728	97.9
90-120	46	1.7
90-130	54	2.0
90-150	60	2.1
90-180	60	2.1
0-180	2788	100.0

For lux multiply fc by 10.7

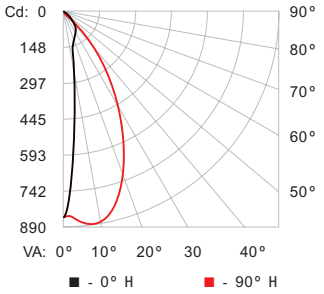
Photometrics / eW Fuse Powercore, 1 ft (305 mm), 8 W / ft

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

2700 K, 10° x 60° beam angle

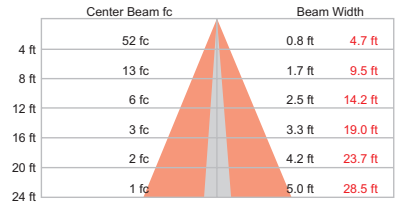
Lumens	Efficacy
442	57.1 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	836	836	836	836	836
5	501	542	659	805	873
15	151	153	182	416	828
25	121	118	117	181	610
35	99	92	87	103	330
45	91	80	63	42	73
55	53	46	34	21	27
65	31	27	18	13	16
75	19	17	10	7	7
85	7	7	5	3	1
90	6	5	3	2	0

Illuminance at Distance



28.9 ft (8.8 m)
1 fc maximum distance

Vert. Spread: 11.9°
Horiz. Spread: 61.4°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	100	98
1	111	107	104	101	108	105	102	99	100	98	96	96	94	93	92	91	90	88
2	104	98	93	88	101	96	91	87	92	88	85	89	85	83	85	83	81	79
3	97	89	83	78	95	88	82	78	85	80	76	82	78	74	79	76	73	71
4	91	82	76	70	89	81	75	70	78	73	69	76	71	68	74	70	67	65
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	69	65	61	59
6	81	71	64	59	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	62	57	53	61	56	53	51
8	73	62	55	50	71	61	55	50	60	54	50	59	53	50	57	53	49	48
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	50	46	45
10	66	55	49	44	65	55	48	44	53	48	44	53	47	44	52	47	43	42

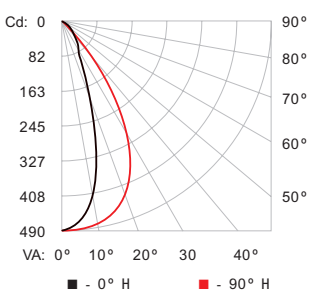
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	234	53.0
0- 40	310	70.2
0- 60	394	89.1
0- 90	432	97.7
90-120	8	1.7
90-130	9	2.1
90-150	10	2.3
90-180	10	2.3
0-180	442	100.0

2700 K, 30° x 60° beam angle

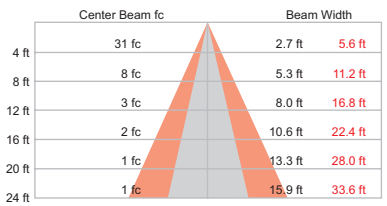
Lumens	Efficacy
443	57.3 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	489	489	489	489	489
5	473	475	482	485	486
15	301	320	388	442	465
25	141	154	219	333	377
35	78	75	98	175	245
45	45	47	50	51	60
55	29	25	25	18	22
65	23	19	13	12	15
75	15	12	8	7	7
85	6	6	4	3	1
90	5	4	3	2	0

Illuminance at Distance



22.0 ft (6.7 m)
1 fc maximum distance

Vert. Spread: 37.6°
Horiz. Spread: 70.1°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	98
1	112	108	105	102	109	106	103	101	101	99	97	97	95	94	93	92	91	89
2	105	99	94	90	102	97	93	89	93	90	87	90	87	84	87	84	82	80
3	99	91	85	80	96	89	84	80	86	82	78	84	80	77	81	78	75	73
4	93	84	78	73	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	71	67	64	62
6	83	73	66	61	81	72	65	61	70	64	60	68	63	60	67	62	59	57
7	78	68	61	57	77	67	61	56	66	60	56	64	59	55	63	58	55	53
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	59	55	51	50
9	71	60	54	49	69	59	53	49	58	53	49	57	52	49	56	52	48	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	53	49	45	44

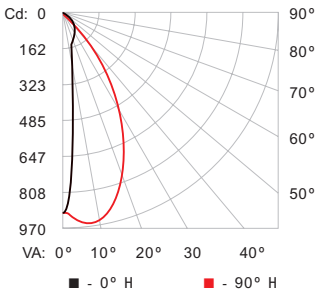
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	262	59.1
0- 40	342	77.1
0- 60	404	91.2
0- 90	434	98.0
90-120	7	1.5
90-130	8	1.8
90-150	9	2.0
90-180	9	2.0
0-180	443	100.0

3000 K, 10° x 60° beam angle

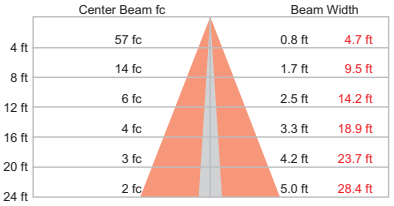
Lumens	Efficacy
471	61.6 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	902	902	902	902	902
5	525	571	706	874	947
15	161	165	191	431	892
25	128	124	125	187	662
35	104	98	92	108	359
45	95	85	67	46	82
55	57	49	37	23	29
65	33	28	19	14	17
75	21	18	11	8	7
85	8	7	5	3	1
90	6	6	4	2	0

Illuminance at Distance



30.2 ft (9.2 m)
1 fc maximum distance

Vert. Spread: 11.9°
Horiz. Spread: 61.2°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	98
1	111	107	104	101	108	105	102	100	101	98	96	96	94	93	93	91	90	88
2	104	98	93	88	101	96	91	87	92	88	85	89	85	83	85	83	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71
4	91	82	76	70	89	81	75	70	78	73	69	76	71	68	74	70	67	65
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	69	65	61	59
6	81	71	64	59	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	62	57	53	61	56	53	51
8	73	62	55	50	71	61	55	50	60	54	50	59	53	50	57	53	49	48
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	50	46	45
10	66	55	49	44	65	54	48	44	53	48	44	52	47	44	52	47	43	42

Zonal Lumen

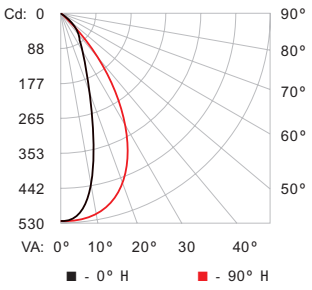
ZONE	LUMENS	%FIXT
0- 30	249	52.9
0- 40	330	70.1
0- 60	420	89.2
0- 90	461	97.8
90-120	8	1.6
90-130	9	1.9
90-150	10	2.2
90-180	10	2.2
0-180	471	100.0

For lux multiply fc by 10.7

3000 K, 30° x 60° beam angle

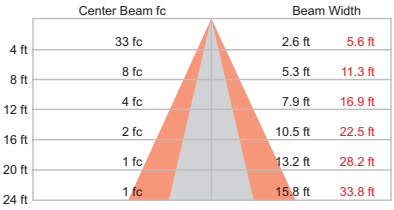
Lumens	Efficacy
473	62.4 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	524	524	524	524	524
5	508	510	516	520	522
15	323	345	413	471	493
25	145	160	233	355	403
35	84	79	102	188	265
45	49	52	53	54	65
55	32	27	28	20	24
65	25	21	14	13	15
75	15	13	8	7	7
85	7	6	4	3	1
90	5	5	3	2	0

Illuminance at Distance



22.9 ft (7.0 m)
1 fc maximum distance

■ Vert. Spread: 36.5°
■ Horiz. Spread: 70.3°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119		116	116	116		110	110		105	105		100	100		98
1	112	108	105		109	106	103		101	99	97	97	95	94	93	92	91	89
2	105	99	94	90	102	97	93	89	93	90	87	90	87	84	87	84	82	80
3	99	91	85	80	96	89	84	80	86	82	78	84	80	77	81	78	75	73
4	93	84	78	73	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	88	78	71	66	86	77	71	66	75	69	65	73	68	64	71	67	64	62
6	83	73	66	61	81	72	65	61	70	64	60	68	63	60	67	62	59	57
7	78	68	61	57	77	67	61	56	66	60	56	64	59	55	63	58	55	53
8	74	64	57	53	73	63	57	52	62	56	52	61	55	52	59	55	51	50
9	71	60	54	49	69	59	53	49	58	53	49	57	52	49	56	52	48	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	53	49	45	44

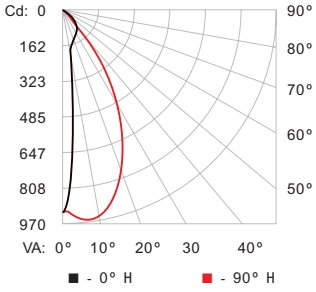
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	279	58.9
0- 40	364	76.9
0- 60	431	91.2
0- 90	463	98.0
90-120	7	1.6
90-130	9	1.8
90-150	10	2.0
90-180	10	2.0
0-180	473	100.0

3500 K, 10° x 60° beam angle

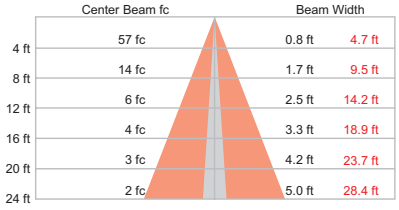
Lumens	Efficacy
486	63.8 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	912	912	912	912	912
5	552	595	728	883	956
15	164	168	197	453	888
25	132	128	128	198	655
35	110	101	95	113	359
45	100	89	70	48	82
55	59	50	38	23	30
65	34	30	20	14	17
75	21	19	12	8	8
85	9	8	6	3	2
90	7	6	4	2	0

Illuminance at Distance



30.2 ft (9.2 m)
1 fc maximum distance

■ Vert. Spread: 11.9°
■ Horiz. Spread: 61.2°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118		115	115	115		110	110		105	105		100	100		98
1	111	107	104		108	105	102		100	98	96	96	94	93	92	91	89	87
2	104	98	92	88	101	96	91	87	92	88	85	88	85	82	85	83	80	78
3	97	89	83	78	95	88	82	77	84	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	81	74	70	78	73	68	76	71	67	73	70	66	64
5	86	76	69	64	84	75	68	63	73	67	62	70	66	62	69	64	61	59
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	64	60	56	55
7	77	66	59	54	75	65	58	54	63	58	53	62	57	53	60	56	52	51
8	73	62	55	50	71	61	54	50	60	54	50	58	53	49	57	52	49	47
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	49	46	44
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	51	47	43	42

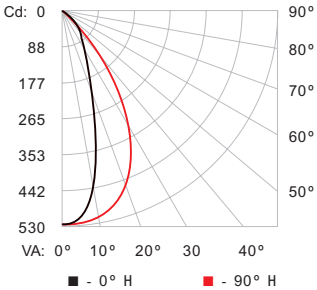
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	255	52.5
0- 40	339	69.7
0- 60	432	88.8
0- 90	475	97.6
90-120	9	1.8
90-130	10	2.1
90-150	12	2.4
90-180	12	2.4
0-180	486	100.0

3500 K, 30° x 60° beam angle

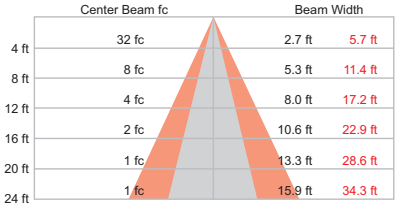
Lumens	Efficacy
468	62.1 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	513	513	513	513	513
5	498	500	505	508	509
15	320	337	405	465	484
25	143	157	230	350	398
35	84	78	100	186	267
45	50	53	52	56	69
55	32	27	28	20	24
65	25	21	14	12	15
75	15	12	8	7	7
85	7	6	4	3	1
90	5	5	3	2	0

Illuminance at Distance



22.7 ft (6.9 m)
1 fc maximum distance

■ Vert. Spread: 36.7°
■ Horiz. Spread: 71.1°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119		116	116	116		110	110		105	105		100	100		98
1	112	108	105		109	106	103		101	99	97	97	95	94	93	92	91	89
2	105	99	94	90	102	97	93	89	93	90	87	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	80	86	82	78	84	80	77	81	78	75	73
4	93	84	78	73	91	83	77	72	80	75	71	78	73	70	76	72	69	67
5	87	78	71	66	86	77	71	66	75	69	65	73	68	64	71	67	64	62
6	83	73	66	61	81	72	65	61	70	64	60	68	63	59	67	62	59	57
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	58	55	53
8	74	64	57	52	73	63	57	52	62	56	52	60	55	52	59	55	51	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	51	48	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	274	58.6
0- 40	359	76.6
0- 60	427	91.2
0- 90	459	98.0
90-120	7	1.5
90-130	8	1.8
90-150	9	2.0
90-180	9	2.0
0-180	468	100.0

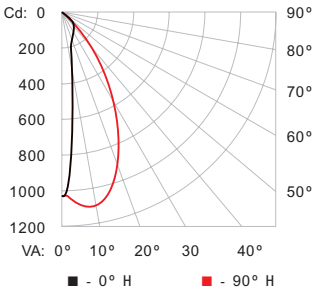
For lux multiply fc by 10.7

Photometrics / eW Fuse Powercore, 1 ft (305 mm), 8 W / ft, continued

4000 K, 10° x 60° beam angle

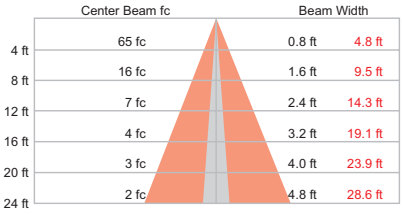
Lumens	Efficacy
539	69.3 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1033	1033	1033	1033	1033
5	601	651	813	1008	1090
15	182	185	218	492	1034
25	146	143	143	216	761
35	117	112	107	124	416
45	107	96	77	52	90
55	62	53	42	26	33
65	37	32	22	16	19
75	24	21	13	9	8
85	9	9	6	4	1
90	7	7	4	2	0

Illuminance at Distance



32.1 ft (9.8 m)
1 fc maximum distance

Vert. Spread: 11.4°
Horiz. Spread: 61.6°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	111	107	104	101	108	105	102	99	100	98	96	96	94	93	92	91	90	87
2	104	98	93	88	101	96	91	87	92	88	85	89	85	83	85	83	81	79
3	97	89	83	78	95	88	82	78	85	80	76	82	78	74	79	76	73	71
4	91	82	76	70	89	81	75	70	78	73	69	76	71	68	74	70	67	65
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	69	65	61	59
6	81	71	64	59	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	62	57	53	61	56	53	51
8	73	62	55	51	71	61	55	50	60	54	50	59	53	50	57	53	49	48
9	69	58	52	47	68	58	51	47	57	51	47	55	50	46	54	50	46	45
10	66	55	49	44	65	55	48	44	54	48	44	53	47	44	52	47	44	42

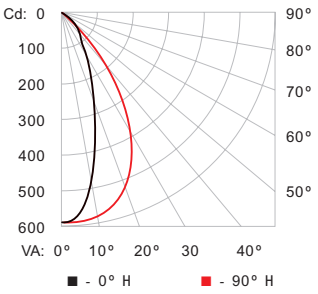
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	286	53.1
0- 40	379	70.3
0- 60	480	89.0
0- 90	526	97.6
90-120	9	1.7
90-130	11	2.1
90-150	13	2.3
90-180	13	2.4
0-180	539	100.0

4000 K, 30° x 60° beam angle

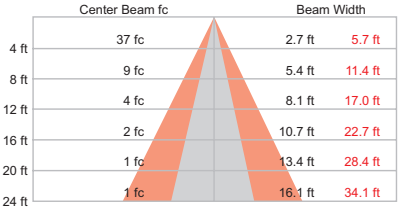
Lumens	Efficacy
537	69.7 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	590	590	590	590	590
5	573	577	582	586	589
15	369	391	466	535	559
25	165	180	263	403	458
35	96	89	115	214	303
45	57	60	60	63	79
55	37	31	32	23	28
65	29	24	16	14	17
75	17	14	9	8	7
85	7	7	5	3	2
90	6	6	4	2	0

Illuminance at Distance



24.3 ft (7.4 m)
1 fc maximum distance

Vert. Spread: 37.1°
Horiz. Spread: 70.8°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	112	108	105	102	109	106	103	101	101	99	97	97	95	94	93	92	91	89
2	105	99	94	90	102	97	93	89	93	90	87	90	87	84	87	84	82	80
3	99	91	85	80	96	89	84	80	86	82	78	84	80	77	81	78	75	73
4	93	84	78	73	91	83	77	72	80	75	71	78	74	70	76	72	69	67
5	88	78	71	66	86	77	71	66	75	69	65	73	68	64	71	67	64	62
6	83	73	66	61	81	72	65	61	70	64	60	68	63	60	67	62	59	57
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	58	55	53
8	74	64	57	53	73	63	57	52	62	56	52	60	55	52	59	55	51	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	45	53	49	45	44

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	315	58.7
0- 40	412	76.7
0- 60	490	91.2
0- 90	527	98.0
90-120	8	1.5
90-130	9	1.8
90-150	11	2.0
90-180	11	2.0
0-180	537	100.0

For lux multiply fc by 10.7

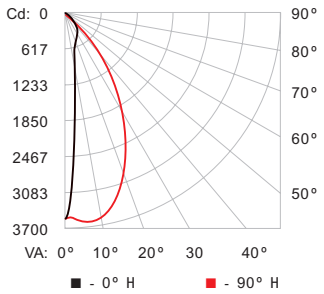
Photometrics / eW Fuse Powercore, 4 ft (1.2 m), 8 W / ft

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

2700 K, 10° x 60° beam angle

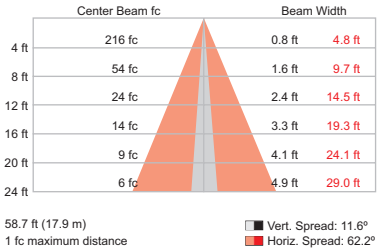
Lumens	Efficacy
1796	57.9 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	3462	3462	3462	3462	3462
5	2054	2219	2705	3281	3571
15	615	625	728	1616	3336
25	486	473	482	707	2500
35	400	369	349	408	1379
45	368	332	254	178	340
55	213	184	142	85	109
65	124	108	74	51	62
75	78	70	42	29	26
85	31	30	21	13	4
90	24	23	16	8	1

Illuminance at Distance



58.7 ft (17.9 m)
1 fc maximum distance

■ Vert. Spread: 11.6°
■ Horiz. Spread: 62.2°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118		115	115	115		110	110		104	104		100	100		97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	91	89	87
2	104	98	92	88	101	96	91	87	92	88	85	88	85	82	85	83	80	78
3	97	89	83	78	95	88	82	77	84	80	76	82	78	74	79	75	73	71
4	91	82	75	70	89	81	74	70	78	73	68	76	71	67	73	69	66	64
5	86	76	69	64	84	75	68	63	73	67	63	70	66	62	69	64	61	59
6	81	71	64	58	79	70	63	58	68	62	58	66	61	57	64	60	56	55
7	77	66	59	54	75	65	58	54	63	58	53	62	57	53	60	56	52	51
8	73	62	55	50	71	61	55	50	60	54	50	58	53	49	57	52	49	47
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	54	49	46	44
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	51	47	43	42

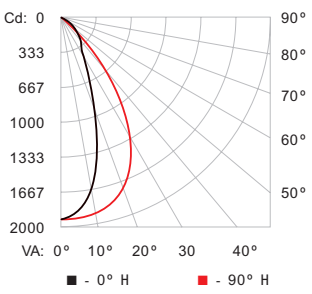
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	944	52.5
0- 40	1250	69.6
0- 60	1594	88.7
0- 90	1749	97.4
90-120	34	1.9
90-130	41	2.3
90-150	47	2.6
90-180	47	2.6
0-180	1796	100.0

2700 K, 30° x 60° beam angle

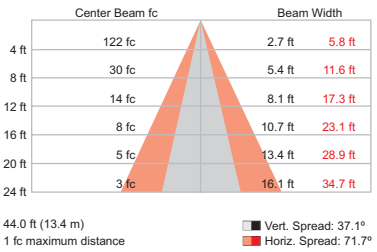
Lumens	Efficacy
1810	58.8 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1945	1945	1945	1945	1945
5	1882	1902	1921	1925	1938
15	1222	1308	1563	1760	1849
25	561	622	898	1334	1529
35	319	308	402	724	1031
45	189	202	205	218	288
55	120	103	108	77	92
65	94	80	54	47	57
75	57	47	32	27	25
85	25	23	16	11	4
90	21	19	12	7	1

Illuminance at Distance



44.0 ft (13.4 m)
1 fc maximum distance

■ Vert. Spread: 37.1°
■ Horiz. Spread: 71.7°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119		115	115	115		110	110		105	105		100	100		98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	93	92	90	88
2	105	99	94	90	102	97	92	89	93	90	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	82	78	83	80	76	81	78	75	73
4	93	84	77	73	91	83	77	72	80	75	71	78	73	70	75	72	69	67
5	87	78	71	66	85	77	70	66	75	69	65	73	68	64	71	67	63	62
6	82	72	66	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	76	67	60	56	65	60	56	64	59	55	62	58	55	53
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	54	51	49
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43

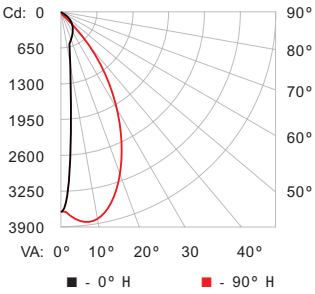
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1053	58.1
0- 40	1382	76.4
0- 60	1648	91.0
0- 90	1769	97.7
90-120	29	1.6
90-130	35	2.0
90-150	41	2.3
90-180	41	2.3
0-180	1810	100.0

3000 K, 10° x 60° beam angle

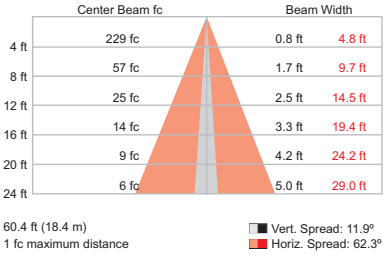
Lumens	Efficacy
1922	62.2 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	3656	3656	3656	3656	3656
5	2204	2408	2910	3475	3780
15	656	669	777	1771	3556
25	516	505	517	766	2667
35	423	393	373	440	1479
45	391	350	271	191	366
55	225	195	151	90	117
65	131	114	78	54	66
75	83	73	44	30	28
85	33	31	22	13	5
90	25	24	16	8	0

Illuminance at Distance



60.4 ft (18.4 m)
1 fc maximum distance

■ Vert. Spread: 11.9°
■ Horiz. Spread: 62.3°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118		115	115	115		110	110		104	104		100	100		97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	91	89	87
2	104	98	93	88	101	96	91	87	92	88	85	88	85	82	85	83	80	78
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	81	75	70	78	73	69	76	71	67	73	70	66	65
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	64	61	59
6	81	71	64	59	79	70	63	58	68	62	58	66	61	57	64	60	56	55
7	77	66	59	54	75	65	59	54	63	58	53	62	57	53	61	56	52	51
8	73	62	55	50	71	61	55	50	60	54	50	58	53	49	57	52	49	47
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	49	46	44
10	66	55	48	44	64	54	48	44	53	48	44	52	47	44	51	47	43	42

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1013	52.7
0- 40	1342	69.8
0- 60	1708	88.9
0- 90	1872	97.4
90-120	36	1.9
90-130	44	2.3
90-150	50	2.6
90-180	50	2.6
0-180	1922	100.0

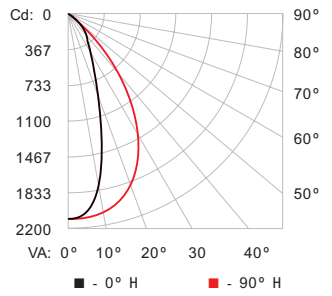
For lux multiply fc by 10.7

Photometrics / eW Fuse Powercore, 4 ft (1.2 m), 8 W / ft, continued

3000 K, 30° x 60° beam angle

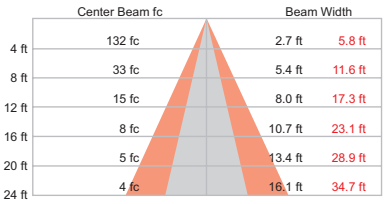
Lumens	Efficacy
1936	63.1 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2118	2118	2118	2118	2118
5	2045	2068	2086	2085	2112
15	1322	1417	1672	1903	2004
25	589	659	955	1430	1653
35	343	324	422	775	1120
45	205	218	217	233	316
55	129	110	116	82	98
65	102	86	57	49	59
75	61	50	33	28	26
85	26	24	17	12	5
90	21	20	13	7	0

Illuminance at Distance



46.0 ft (14.0 m)
1 fc maximum distance

Vert. Spread: 37.0°
Horiz. Spread: 71.7°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	98
1	112	108	105	102	109	106	103	101	101	99	97	97	95	94	93	92	91	89	89
2	105	99	94	90	102	97	93	89	93	90	87	90	87	84	87	84	82	80	80
3	99	91	85	80	96	89	84	80	86	82	78	84	80	77	81	78	75	73	73
4	93	84	78	73	91	83	77	72	80	75	71	78	74	70	76	72	69	67	67
5	87	78	71	66	86	77	71	66	75	69	65	73	68	64	71	67	64	62	62
6	83	73	66	61	81	72	65	61	70	64	60	68	63	60	67	62	59	57	57
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	58	55	53	53
8	74	64	57	52	73	63	57	52	62	56	52	60	55	52	59	55	51	50	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	51	48	47	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	48	45	44	44

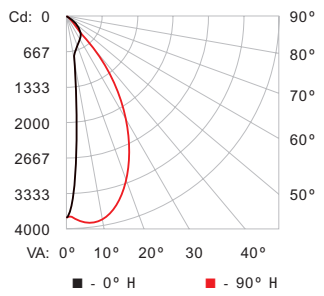
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1132	58.5
0- 40	1484	76.7
0- 60	1769	91.4
0- 90	1897	98.0
90-120	29	1.5
90-130	35	1.8
90-150	39	2.0
90-180	39	2.0
0-180	1936	100.0

3500 K, 10° x 60° beam angle

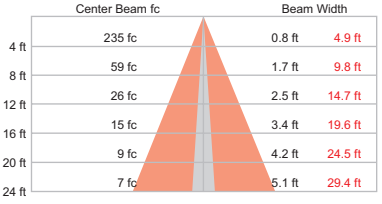
Lumens	Efficacy
1987	64.1 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	3761	3761	3761	3761	3761
5	2315	2489	2980	3555	3865
15	682	695	812	1852	3669
25	535	525	536	791	2765
35	436	405	389	453	1545
45	402	357	280	195	377
55	229	203	157	92	121
65	135	117	80	56	69
75	88	77	45	31	30
85	34	32	23	14	5
90	26	25	17	8	0

Illuminance at Distance



61.2 ft (18.7 m)
1 fc maximum distance

Vert. Spread: 12.1°
Horiz. Spread: 63.0°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	93	92	91	89	87	87
2	104	98	93	88	101	96	91	87	92	88	85	88	85	83	85	83	80	78	78
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71	71
4	91	82	75	70	89	81	75	70	78	73	69	76	71	68	74	70	66	65	65
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	69	64	61	59	59
6	81	71	64	59	79	70	63	58	68	62	58	66	61	57	64	60	56	55	55
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51	51
8	73	62	55	50	71	61	55	50	60	54	50	58	53	49	57	53	49	47	47
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	49	46	45	45
10	66	55	49	44	64	54	48	44	53	48	44	52	47	44	51	47	43	42	42

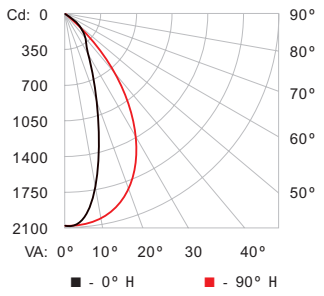
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1050	52.8
0- 40	1390	70.0
0- 60	1768	89.0
0- 90	1937	97.5
90-120	36	1.8
90-130	44	2.2
90-150	50	2.5
90-180	50	2.5
0-180	1987	100.0

3500 K, 30° x 60° beam angle

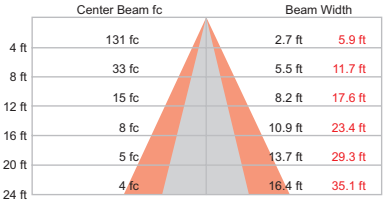
Lumens	Efficacy
1966	64.2 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2095	2095	2095	2095	2095
5	2024	2041	2061	2059	2086
15	1320	1407	1663	1881	1974
25	617	673	955	1416	1634
35	356	343	434	769	1136
45	211	229	228	247	328
55	134	117	124	88	103
65	105	90	61	52	63
75	63	52	36	29	28
85	28	26	18	12	5
90	23	21	14	7	0

Illuminance at Distance



45.7 ft (13.9 m)
1 fc maximum distance

Vert. Spread: 37.7°
Horiz. Spread: 72.4°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	93	93	92	90	88	88
2	105	99	94	90	102	97	92	88	93	89	86	90	87	84	86	84	82	80	80
3	98	91	85	80	96	89	84	79	86	81	78	83	79	76	80	77	75	73	73
4	92	84	77	72	90	82	76	72	80	75	70	77	73	69	75	71	68	67	67
5	87	77	71	66	85	76	70	65	74	69	65	72	67	64	70	66	63	61	61
6	82	72	65	60	80	71	65	60	69	64	59	68	63	59	66	62	58	57	57
7	78	67	61	56	76	66	60	56	65	59	55	63	58	55	62	58	54	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49
9	70	59	53	48	69	59	52	48	58	52	48	56	51	48	55	51	47	46	46
10	67	56	50	45	65	55	49	45	54	49	45	53	48	45	52	48	44	43	43

Zonal Lumen

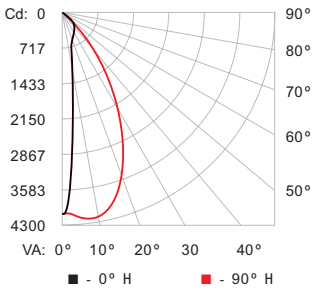
ZONE	LUMENS	%FIXT
0- 30	1128	57.4
0- 40	1486	75.6
0- 60	1785	90.8
0- 90	1920	97.7
90-120	33	1.7
90-130	40	2.0
90-150	45	2.3
90-180	45	2.3
0-180	1966	100.0

For lux multiply fc by 10.7

4000 K, 10° x 60° beam angle

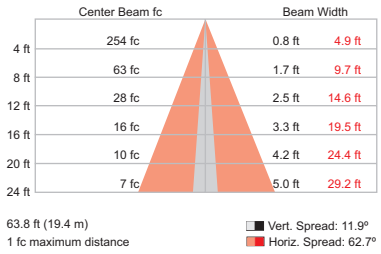
Lumens	Efficacy
2160	69.9 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	4056	4056	4056	4056	4056
5	2458	2644	3216	3860	4185
15	751	767	895	1950	3950
25	581	574	590	862	2974
35	473	441	427	498	1650
45	437	392	305	217	411
55	251	221	171	102	132
65	150	130	88	61	74
75	97	85	51	35	32
85	39	37	26	15	5
90	29	28	19	9	1

Illuminance at Distance



63.8 ft (19.4 m)
1 fc maximum distance

Vert. Spread: 11.9°
Horiz. Spread: 62.7°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	87
2	104	98	92	88	101	96	91	87	92	88	85	88	85	82	78
3	97	89	83	78	95	87	82	77	84	80	76	81	77	74	71
4	91	82	75	70	89	81	74	70	78	73	68	76	71	67	64
5	86	76	69	64	84	75	68	63	72	67	62	70	65	62	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	55
7	76	66	59	54	75	65	58	54	63	57	53	62	57	53	51
8	72	62	55	50	71	61	54	50	60	54	50	58	53	49	47
9	69	58	51	47	67	57	51	47	56	50	46	55	50	46	44
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	42

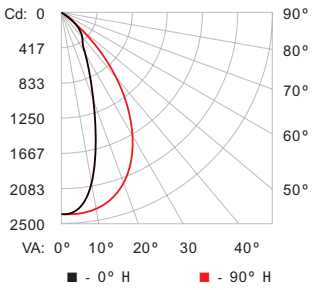
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1135	52.5
0- 40	1503	69.6
0- 60	1915	88.6
0- 90	2103	97.4
90-120	41	1.9
90-130	50	2.3
90-150	57	2.6
90-180	57	2.6
0-180	2160	100.0

4000 K, 30° x 60° beam angle

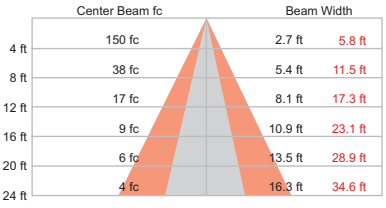
Lumens	Efficacy
2217	70.8 lm / W

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2401	2401	2401	2401	2401
5	2326	2339	2362	2362	2397
15	1512	1608	1910	2160	2277
25	686	761	1101	1622	1875
35	394	378	489	881	1269
45	233	250	252	271	347
55	148	127	133	94	110
65	117	99	66	57	69
75	71	58	39	33	30
85	31	28	20	14	5
90	25	23	14	8	0

Illuminance at Distance



48.9 ft (14.9 m)
1 fc maximum distance

Vert. Spread: 37.5°
Horiz. Spread: 71.6°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	93	92	91	89
2	105	99	94	90	102	97	92	89	93	90	86	90	87	84	87	84	82	80
3	98	91	85	80	96	89	84	79	86	82	78	83	80	76	81	78	75	73
4	93	84	77	73	91	83	77	72	80	75	71	78	73	70	75	72	69	67
5	87	78	71	66	85	77	70	66	75	69	65	73	68	64	71	67	63	62
6	83	72	66	61	81	72	65	61	70	64	60	68	63	59	66	62	59	57
7	78	68	61	56	77	67	61	56	65	60	56	64	59	55	63	58	55	53
8	74	63	57	52	73	63	57	52	61	56	52	60	55	51	59	54	51	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	44

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1291	58.2
0- 40	1694	76.4
0- 60	2020	91.1
0- 90	2169	97.8
90-120	35	1.6
90-130	43	1.9
90-150	48	2.2
90-180	48	2.2
0-180	2217	100.0

For lux multiply fc by 10.7

eW Fuse Powercore Specifications: 1 ft (305 mm), 12.5 W / ft

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

Color Temperature	Beam Angle	Lumens†	Efficacy (lm / W)	CRI
2700 K*	10° x 60°	553	45.7	83
	30° x 60°	573	47.0	82
3000 K*	10° x 60°	594	50.3	82
	30° x 60°	587	47.7	82
3500 K*	10° x 60°	657	54.3	83
	30° x 60°	627	52.3	83
4000 K*	10° x 60°	697	58.1	84
	30° x 60°	677	57.9	84

Item	Specification	Details
Output	Lumen Maintenance‡	50,000 hours L_{70} @ 25° C 37,000 hours L_{70} @ 50° C 90,000 hours L_{50} @ 25° C 80,000 hours L_{50} @ 50° C
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	12.5 W maximum at full output, steady state
	Power Factor	.99 @ 120 V
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§
Physical	Dimensions *(Height x Width x Depth)*	2.1 x 12 x 1.5 in (53 x 305 x 38 mm)
	Weight	0.98 lb (445 g)
	Housing	Die-cast aluminium, white powder-coated finish.
	Lens	Polycarbonate
	Fixture Connections	Integral male / female connectors
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/
Certification and Safety	Certification	UL / cUL, FCC Class B, CE, C-Tick, CCC
	Environment	Dry / 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.

‡ L_{70} = 70% lumen maintenance (when light output drops below 70% of initial output). L_{50} = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

§ Refer to www.philipscolorkinetics.com/support/appnotes/ for specific details.

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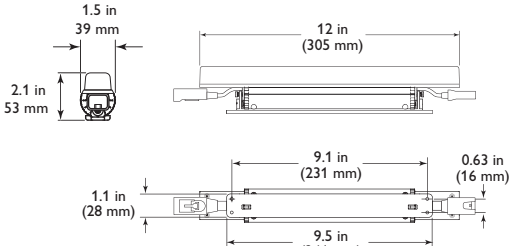

eW Fuse Powercore Specifications: 4 ft (1.2 m), 12.5 W / ft

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

Color Temperature	Beam Angle	Lumens† (lm / w)	Efficacy	CRI
2700 K*	10° x 60°	2290	48.2	80
	30° x 60°	2144	45.9	81
3000 K*	10° x 60°	2431	51.5	82
	30° x 60°	2378	49.9	82
3500 K*	10° x 60°	2624	55.4	84
	30° x 60°	2580	54.5	84
4000 K*	10° x 60°	2810	60.2	83
	30° x 60°	2788	59.2	83

Item	Specification	Details
Output	Lumen Maintenance‡	50,000 hours L_{70} @ 25° C 37,000 hours L_{70} @ 50° C 90,000 hours L_{50} @ 25° C 80,000 hours L_{50} @ 50° C
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	50 W maximum at full output, steady state
	Power Factor	.93 @ 120 V
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§
Physical	Dimensions *(Height x Width x Depth)*	2.1 x 48 x 1.6 in (53 x 1219 x 41 mm)
	Weight	4.37 lb (1.98 kg)
	Housing	Die-cast aluminium, white powder-coated finish.
	Lens	Polycarbonate
	Fixture Connections	Integral male / female connectors
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/
Certification and Safety	Certification	UL / cUL, FCC Class B, CE, C-Tick, CCC
	Environment	Dry / Damp Location, IP20

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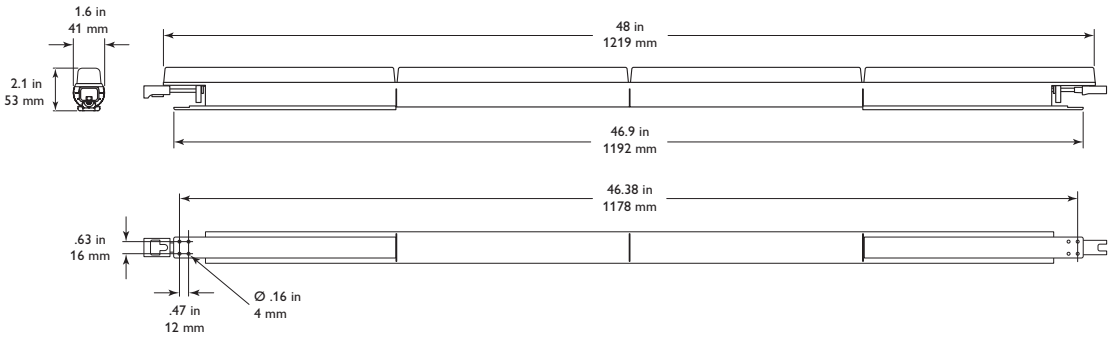
* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

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

‡ L_{70} = 70% lumen maintenance (when light output drops below 70% of initial output). L_{50} = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

§ Refer to www.philipscolorkinetics.com/support/appnotes/ for specific details.



eW Fuse Powercore Specifications: 1 ft (305 mm), 8 W / ft

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

Color Temperature	Beam Angle	Lumens†	Efficacy (lm/W)	CRI
2700 K*	10° x 60°	442	57.1	82
	30° x 60°	443	57.3	82
3000 K*	10° x 60°	471	61.6	83
	30° x 60°	473	62.4	83
3500 K*	10° x 60°	486	63.8	83
	30° x 60°	468	62.1	84
4000 K*	10° x 60°	539	69.3	82
	30° x 60°	537	69.7	82

Item	Specification	Details
Output	Lumen Maintenance‡	65,000 hours L_{70} @ 25° C 65,000 hours L_{70} @ 50° C 65,000 hours L_{50} @ 25° C 65,000 hours L_{50} @ 50° C
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	8 W maximum at full output, steady state
	Power Factor	≥ 0.982 @ 120 V
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§
Physical	Dimensions *(Height x Width x Depth)*	2.1 x 12 x 1.5 in (53 x 305 x 38 mm)
	Weight	0.98 lb (445 g)
	Housing	Die-cast aluminium, white powder-coated finish.
	Lens	Polycarbonate
	Fixture Connections	Integral male / female connectors
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/
Certification and Safety	Certification	UL / cUL, FCC Class B, CE, C-Tick, CCC
	Environment	Dry / 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.

‡ L_{70} = 70% lumen maintenance (when light output drops below 70% of initial output). L_{50} = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

§ Refer to www.philipscolorkinetics.com/support/appnotes/ for specific details.

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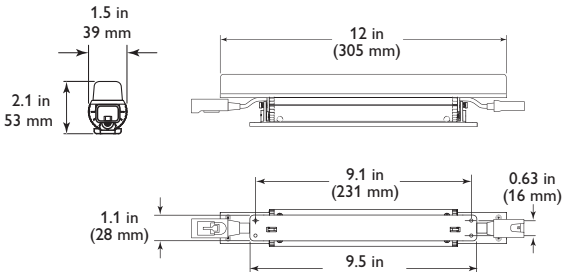

eW Fuse Powercore Specifications: 4 ft (1.2 m), 8 W / ft

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

Color Temperature	Beam Angle	Lumens†	Efficacy	CRI
2700 K*	10° x 60°	1796	57.9	82
	30° x 60°	1810	58.8	83
3000 K*	10° x 60°	1922	62.2	83
	30° x 60°	1936	63.1	84
3500 K*	10° x 60°	1987	64.1	83
	30° x 60°	1966	64.2	83
4000 K*	10° x 60°	2160	69.9	82
	30° x 60°	2217	70.8	83

Item	Specification	Details
Output	Lumen Maintenance‡	65,000 hours L_{70} @ 25° C 65,000 hours L_{70} @ 50° C 65,000 hours L_{50} @ 25° C 65,000 hours L_{50} @ 50° C
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	32 W maximum at full output, steady state
	Power Factor	≥ 0.982 @ 120 V
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§
Physical	Dimensions *(Height x Width x Depth)*	2.1 x 48 x 1.6 in (53 x 1219 x 41 mm)
	Weight	4.37 lb (1.98 kg)
	Housing	Die-cast aluminium, white powder-coated finish.
	Lens	Polycarbonate
	Fixture Connections	Integral male / female connectors
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/
Certification and Safety	Certification	UL / cUL, FCC Class B, CE, C-Tick, CCC
	Environment	Dry / Damp Location, IP20

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

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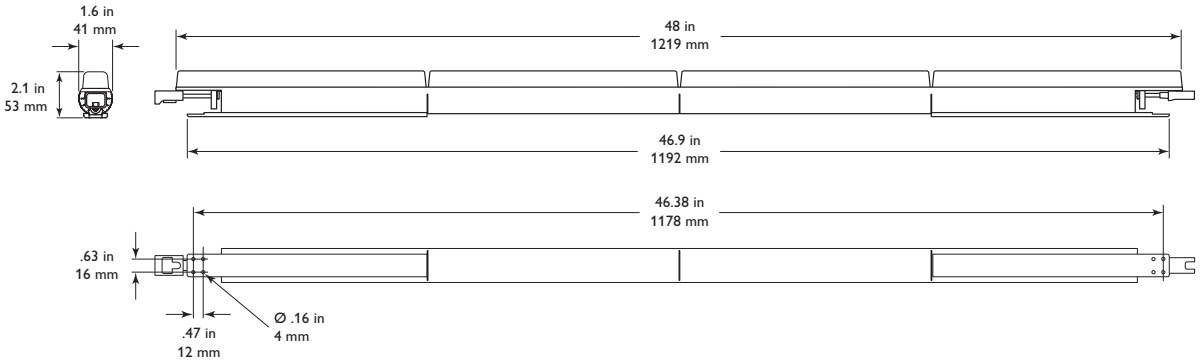
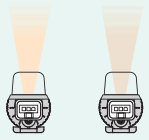
§ Refer to www.philipscolorkinetics.com/support/appnotes/ for specific details.

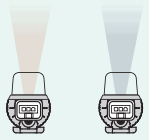


Product Selection

To order eW Fuse Powercore, choose a color temperature, a beam angle, a fixture length, a power consumption level, a line voltage connection option, and any extra options you may need.

1 Choose color temperature





2 Choose beam angle

10° x 60°

30° x 60°

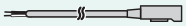
3 Choose fixture length

4 Choose power consumption

8 W / ft

12.5 W / ft

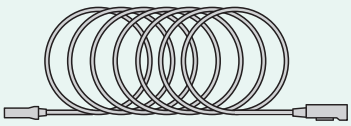
5 Choose line voltage connection option



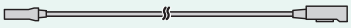
Leader cable, terminator and strain relief, UL / cUL, CE / CCC

Wiring compartment, UL / cUL

6 Choose extra options



5 ft (1.5 m) Jumper cable



1 ft (305 mm) Jumper cable

Mounting track

Fixtures

Type	Color Temperature	Beam Angle	Item Number	Philips 12NC
eW Fuse Powercore 1 ft (305 mm), 12.5 W / ft	2700 K	10° x 60°	523-000065-08	910503701717
		30° x 60°	523-000065-12	910503701721
	3000 K	10° x 60°	523-000065-09	910503701718
		30° x 60°	523-000065-13	910503701722
	3500 K	10° x 60°	523-000065-10	910503701719
		30° x 60°	523-000065-14	910503701723
	4000 K	10° x 60°	523-000065-11	910503701720
		30° x 60°	523-000065-15	910503701724
eW Fuse Powercore 1 ft (305 mm), 8 W / ft	2700 K	10° x 60°	523-000065-24	910503704161
		30° x 60°	523-000065-28	910503704165
	3000 K	10° x 60°	523-000065-25	910503704162
		30° x 60°	523-000065-29	910503704166
	3500 K	10° x 60°	523-000065-26	910503704163
		30° x 60°	523-000065-30	910503704167
	4000 K	10° x 60°	523-000065-27	910503704164
		30° x 60°	523-000065-31	910503704168
eW Fuse Powercore 4 ft (1.2 m), 12.5 W / ft	2700 K	10° x 60°	523-000065-16	910503702617
		30° x 60°	523-000065-20	910503702621
	3000 K	10° x 60°	523-000065-17	910503702618
		30° x 60°	523-000065-21	910503702622
	3500 K	10° x 60°	523-000065-18	910503702619
		30° x 60°	523-000065-22	910503702623
	4000 K	10° x 60°	523-000065-19	910503702620
		30° x 60°	523-000065-23	910503702624
eW Fuse Powercore 4 ft (1.2 m), 8 W / ft	2700 K	10° x 60°	523-000065-40	910503703179
		30° x 60°	523-000065-44	910503703183
	3000 K	10° x 60°	523-000065-41	910503703180
		30° x 60°	523-000065-45	910503703184
	3500 K	10° x 60°	523-000065-42	910503703181
		30° x 60°	523-000065-46	910503703185
	4000 K	10° x 60°	523-000065-43	910503703182
		30° x 60°	523-000065-47	910503703186

Use Item Number when ordering in North America.

Accessories

Item	Type		Item Number	Philips 12NC
Leader Cable with terminator and strain relief	UL / cUL	10 ft (3 m)	108-000047-00	910503700972
	CE / CCC	10 ft (3 m)	108-000047-01	910503700973
Wiring Compartment with terminator	UL / cUL		120-000077-01	910503700994
Jumper Cable	UL / cUL	1 ft (305 mm)	108-000048-00	910503700974
		5 ft (1.5 m)	108-000048-01	910503700975
	CE / CCC	1 ft (305 mm)	108-000048-02	910503700976
		5 ft (1.5 m)	108-000048-03	910503700977
Terminators	10 / box		120-000099-00	910503701120
Mounting Track, White	Quantity 1	4 ft (1219 mm)	120-000124-00	910503701787

Use Item Number when ordering in North America.

Installation

eW Fuse Powercore offers high-output, energy-efficient indoor white cove and indirect general lighting with Powercore technology. Powercore technology, which integrates LED power and data management within the fixture, eases installation by eliminating the need for external power supplies.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Fuse 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.

Refer to the eW / eColor Fuse Powercore Installation Instructions for specific warning and caution statements.

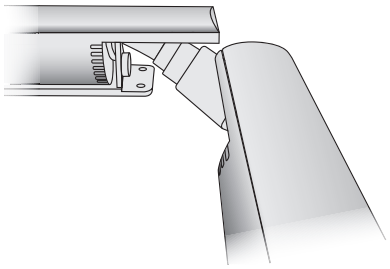
Create a Layout Plan

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

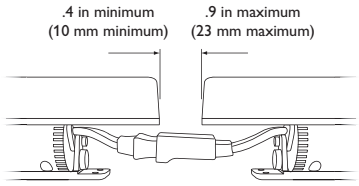
- On an architectural diagram or other diagram that shows the physical layout of the installation, create a layout map that specifies the appropriate location of the light fixtures in relation to each other, and to any dimmer switches, wall switches, and line power sources. Identify any obstacles or physical features requiring flexible jumper cables between fixtures.
- eW Fuse 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 on the 1 ft (305 mm) fixtures allow for spacing of .4 in (10 mm) to .9 in (23 mm) without a jumper cable, while the connectors on the 4 ft (1.2 m) fixtures allow for spacing of .9 in (23 mm) to 2 in (51 mm) without a jumper cable. When you need to separate fixtures by more than these minimums, use the 1 ft (305 mm) or 5 ft (1.5 m) jumper cables.
- You can install a run of eW Fuse Powercore fixtures using the 10 ft (3 m) Leader Cable with flying leads. This option is preferable when connecting to a third-party junction box, or when retrofitting an existing incandescent or fluorescent cove lighting installation.
- In North America, you can use the Wiring Compartment when you want to run branch conduit all the way to the first fixture in a series, or where local codes require it.
- The maximum number of fixtures each circuit can support depends on specific configuration details such as fixture length, fixture spacing, circuit size, line voltage, and leader and jumper cable length. For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.

Easy turns

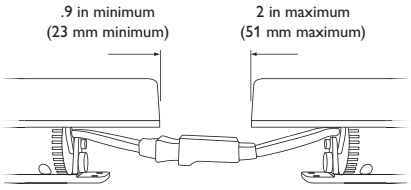
End-to-end locking power connectors can make turns of up to 180° without jumper cables.



Distance between fixtures joined end-to-end



1 ft (305 mm) fixtures



4 ft (1.2 m) fixtures

Install Wall and Dimmer Switches (optional)

eW Fuse Powercore fixtures can be controlled either with a standard wall switch (on / off) or a compatible, commercially available reverse-phase ELV-type dimmers. eW Fuse Powercore fixtures work with selected trailing edge reverse-phase (ELV) dimmers.

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

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

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.

Included in the box

eW Fuse Powercore fixture
Installation Instructions

Install the Fixtures

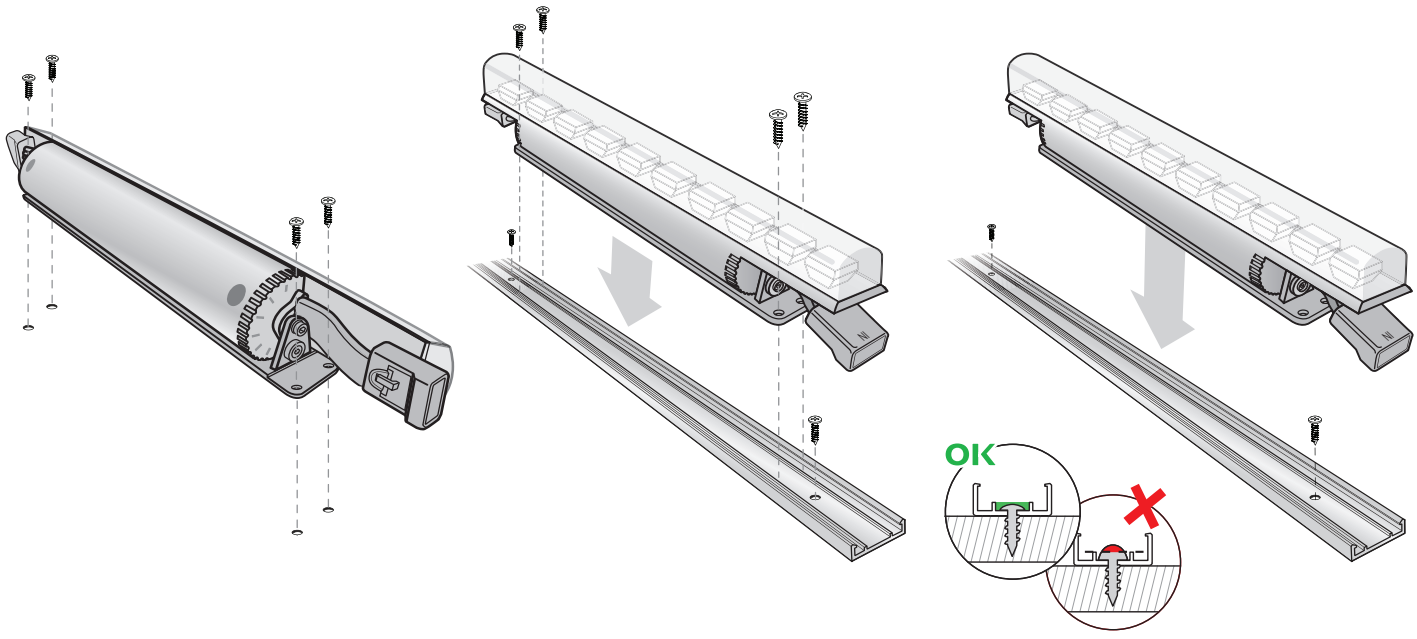
You can mount eW Fuse Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. You can install eW Fuse Powercore fixtures in optional 4 ft (1.2 m) lengths of mounting track to ensure a straight run.

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 12 in (305 mm).

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



Mount and Connect the Fixtures

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

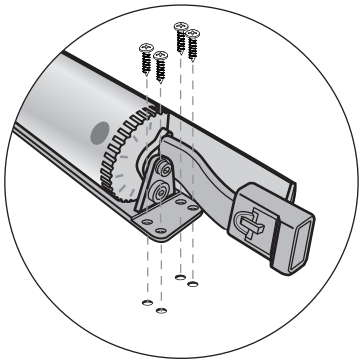
1. Rotate an eW Fuse Powercore fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

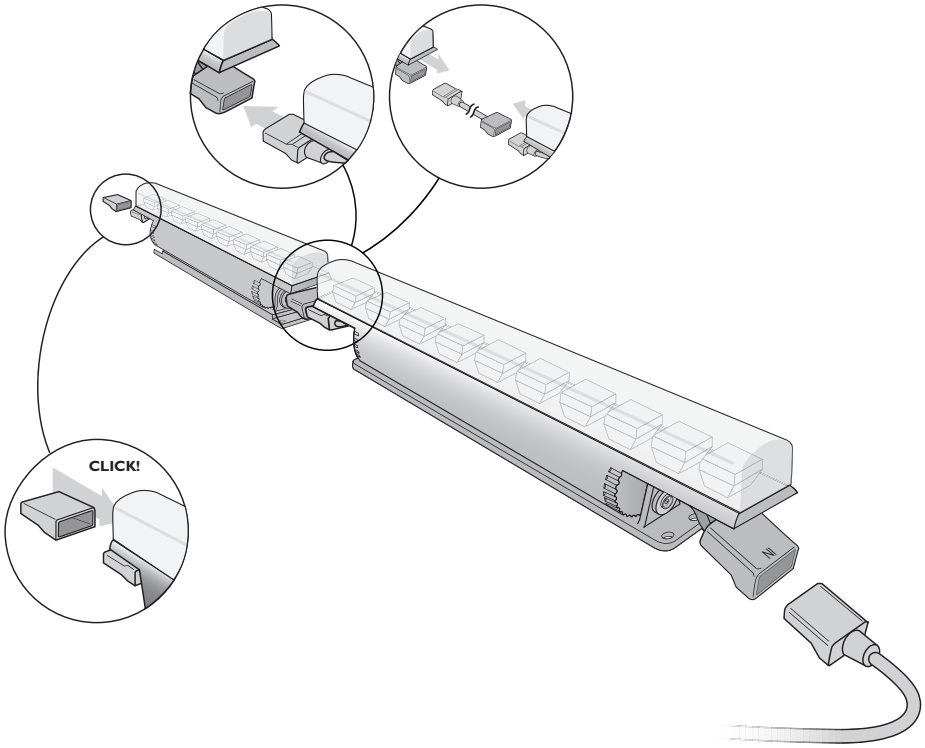
   If using mounting tracks on a horizontal surface, snap the fixture into the track.

   If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach 1 ft (305 mm) fixtures with four #6 (3.5 mm) mounting screws each (not included) suitable for the mounting surface. Attach 4 ft (1.2 m) fixtures with eight #6 (3.5 mm) mounting screws suitable for the mounting surface, four at each end of the fixture,

   Ensure that the male connector is in position to receive power from the female connector on the Leader Cable or Wiring Compartment.
3. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. Attach the fixture to the surface or snap it into the track.

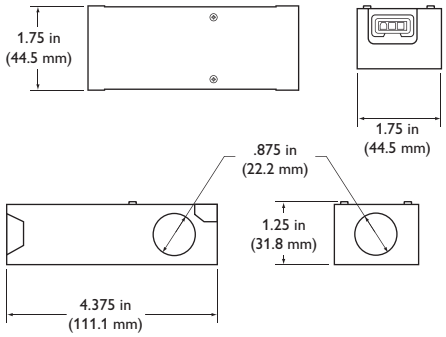
Mounting 4 ft (1.2 m) fixtures



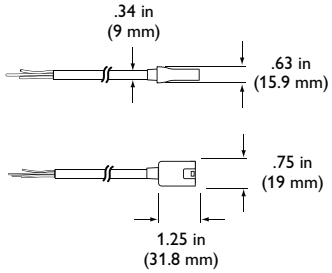


4. Continue mounting the fixtures, making power connections as you go, until all lights in the series are mounted.
5. Insert the provided terminator into the last fixture in the series.
6. Make power connections.

Wiring Compartment dimensions

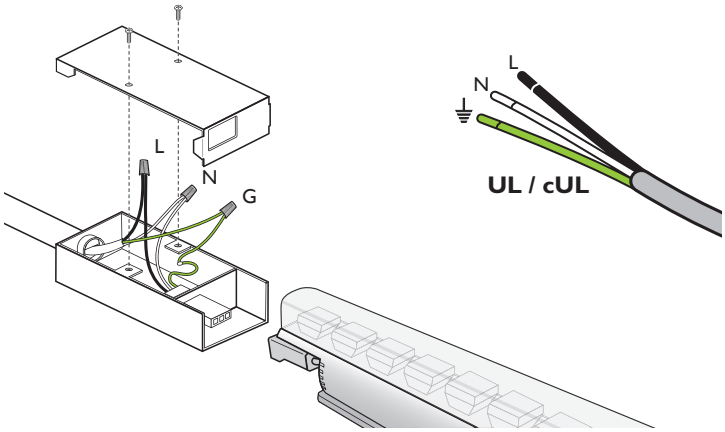


Leader Cable connector dimensions



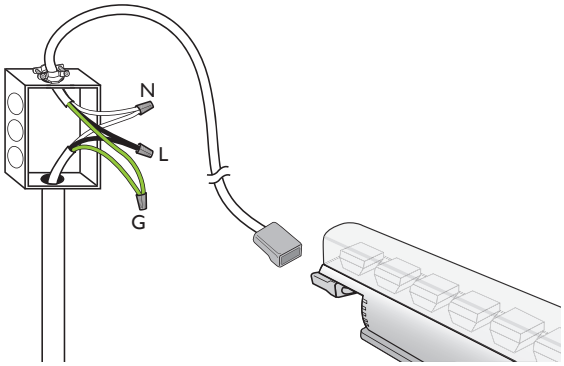
To run power or conduit to the first fixture in a series (UL / cUL installations):

1. Remove the cover from the eW Fuse Powercore Wiring Compartment.
2. Using wire nuts, connect ground, neutral, and line inside the Wiring Compartment housing, then replace the cover.
3. Connect the eW Fuse Powercore Wiring Compartment to the first fixture in the series.



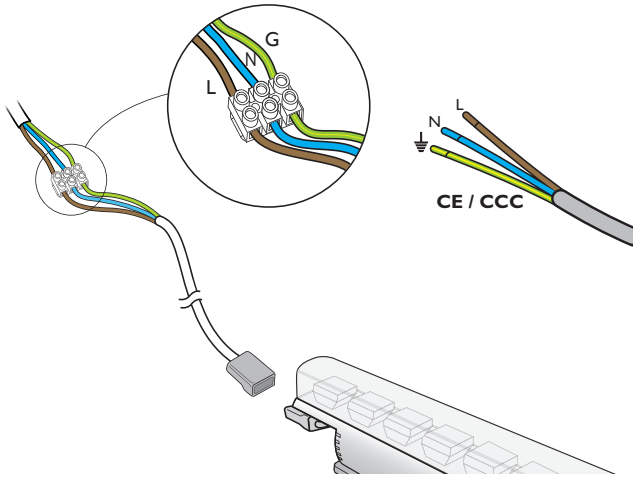
To connect the first fixture in a series to a third-party junction box using the 10 ft (3 m) Leader Cable (UL / cUL installations):

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



For CE / CCC installations:

1. Connect the Leader Cable to a terminal block. For CE installation, the terminalblock must conform to EN 60998-2-1 or EN 60998-2-2, rated 220 – 240 VAC.
2. Connect ground, neutral, and line to a power source.
3. Connect the 10 ft (3 m) Leader Cable to the first fixture in the series.

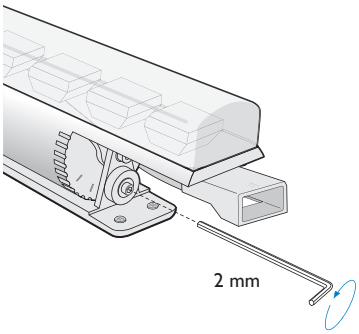


Aim and Lock the Fixtures

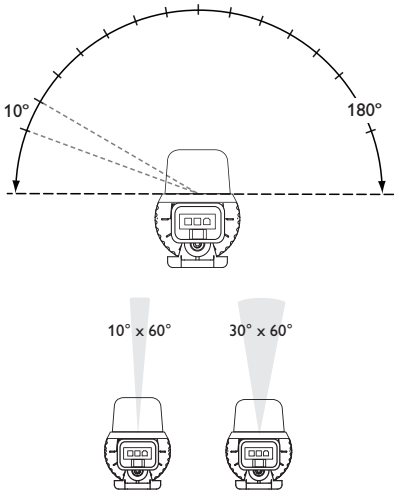
Make sure the power is ON before aiming fixtures.

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

(Optional) Using a 2 mm hex key wrench, tighten the set screw located on each end of the fixture to lock the fixture in place.



Do not look directly into beam when aiming fixtures.



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