



iW Fuse Powercore

Linear interior LED wall grazing fixture with intelligent white light

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With narrow and medium beams of high-quality intelligent white light, iW Fuse Powercore is an excellent choice for a full range of surface grazing, wall-washing, and accent lighting applications. Its ultra-compact form factor permits installation in tight spaces too small to accommodate conventional grazing fixtures that offer similar level and distribution of light. With three channels of warm, neutral, and cool LED sources, this compact, versatile fixture offers a color temperature range of 2700 K to 6500 K. iW Fuse Powercore combines high-intensity, professional-grade light output with the efficiency and cost-effectiveness provided by Powercore technology.

- High-performance illumination — Available in 1 ft (305 mm) and 4 ft (1.2 m) die-cast aluminum housings with a narrow 10° x 60° or medium 30° x 60° beam angle. Superior beam quality delivers striation-free light. Interlocking connectors accommodate end-to-end installation without visible light scalloping between fixtures.
- Superior color consistency — Optibin, a proprietary binning optimization process developed by Philips Color Kinetics, guarantees consistency of hue across LEDs, fixtures, and manufacturing runs.
- High-performance illumination in a wide range of color temperatures — Channels of warm, neutral, and cool white LEDs produce color temperatures ranging from 2700 K to 6500 K, offering the greatest possible light intensity at all color temperatures. Fixture brightness can be varied while maintaining constant color temperature.
- Integrates Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage. The Philips Data Enabler Pro merges line voltage with control and delivers them to the fixture over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Industry-leading controls — Works seamlessly with the complete Philips Color Kinetics line of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.
- Universal power input range — Accepts power input of 100 – 240 VAC for consistent installation anywhere in the world.
- Easy installation — By delivering line voltage directly to the fixtures, Powercore reduces the number of external power supplies, allowing long product runs and eliminating the need for special wiring. Easy-to-install 4 ft (1.2 m) mounting tracks allow quick project setup in linear applications.
- Flexible mounting and positioning — With end-to-end locking power connectors that can make 180° turns, these compact fixtures are easy to position in even the most challenging mounting circumstances. 1 ft (305 mm) and 5 ft (1.5 m) jumper cables can add extra space between fixtures. Optional mounting tracks support vertical and overhead positioning.



Intense Light Output

iW Fuse Powercore high-performance grazing fixtures deliver professional-grade illuminance with total light output of up to 636 lumens per foot.

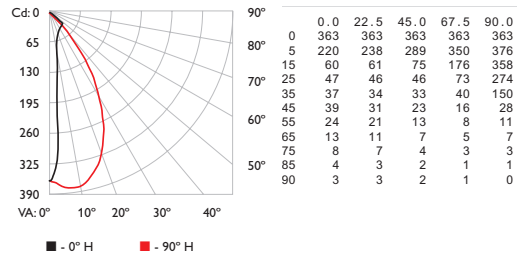
Photometrics

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

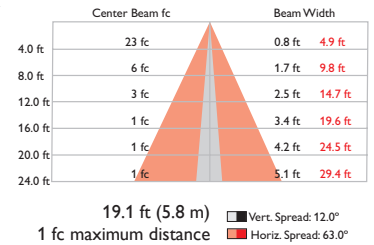
iW Fuse Powercore 1 ft, 10° x 60° (narrow beam angle) 2700 K channel only

Lumens	185
Efficacy	21.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	100	54.1
0- 40	131	70.7
0- 60	165	89.0
0- 90	181	97.8
90-120	3	1.8
90-130	4	2.1
90-150	4	2.2
90-180	4	2.2
0-180	185	100.0

Coefficients Of Utilization - Zonal Cavity Method

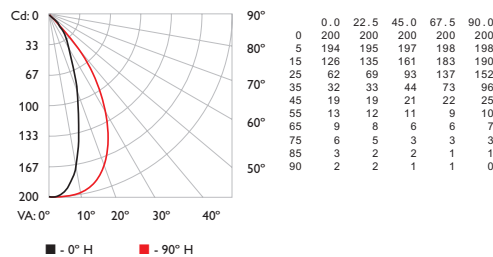
		Effective Floor Cavity Reflectance: 20%																				
RC		80				70				50				30				10				0
RW		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0		119119119119				116116116116				110110110			105105105			100100100			98			
1		111107104101				108105102	99			100	98	96	96	94	93	92	91	90	88			
2		104	98	93	88		101	96	91	87	92	88	85	86	83				79			
3		97	90	83	78		95	88	82	78	85	80	76	82	78	75			71			
4		92	82	76	71		89	81	75	70	79	73	69	76	72	68			65			
5		86	76	69	64		84	75	69	64	73	67	63	71	66	62			60			
6		81	71	64	59		80	70	64	59	68	63	58	67	61	58			55			
7		77	66	60	55		75	66	59	54	64	58	54	63	57	54			51			
8		73	62	56	51		72	62	55	51	60	55	50	59	54	50			48			
9		69	59	52	48		68	58	52	48	57	51	47	56	51	47			45			
10		66	56	49	45		65	55	49	45	54	48	45	53	48	44			43			

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

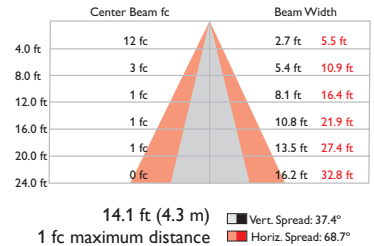
iW Fuse Powercore 1 ft, 30° x 60° (medium beam angle) 2700 K channel only

Lumens	186
Efficacy	22.1

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	110	58.8
0- 40	144	77.0
0- 60	171	91.5
0- 90	183	98.4
90-120	2	1.3
90-130	3	1.5
90-150	3	1.6
90-180	3	1.6
0-180	186	100.0

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	50	30	10	50	30	10	0		
0		119119119119				116116116116				110110110			105105105			101101101						98		
1		112108105102				109106103101				101	99	97	97	96	94	94	92	91	89					
2		105	99	94	90	102	97	93	89	93	90	87	90	87	85	87	85	82	81					
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		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	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	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					

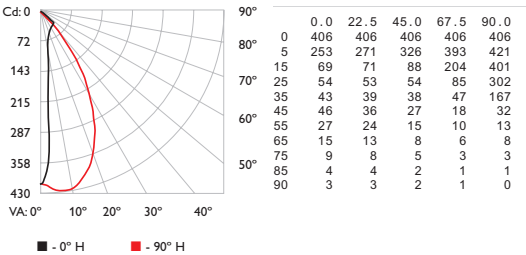
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

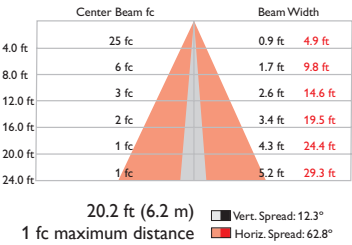
iW Fuse Powercore
1 ft, 10° x 60° (narrow beam angle)
4000 K channel only

Lumens	212
Efficacy	25.6

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	115	53.9
0- 40	150	70.6
0- 60	189	89.0
0- 90	207	97.6
90-120	4	1.8
90-130	5	2.2
90-150	5	2.4
90-180	5	2.4
0-180	212	100.0

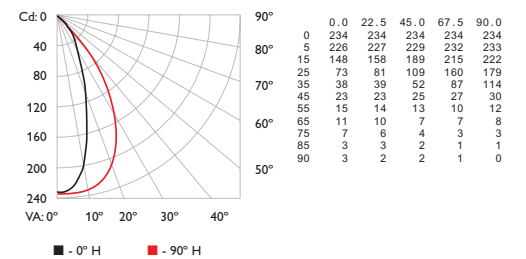
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
		80			70			50			30		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	1	118	118	118	118	115	115	115	115	110	101	100	98
1	1	111	107	104	101	108	105	102	99	100	98	96	92
2	1	104	98	93	88	101	96	91	87	92	88	85	85
3	1	97	90	83	79	95	88	82	78	85	80	76	79
4	1	92	82	76	71	89	81	75	70	78	73	69	74
5	1	86	76	69	64	84	75	69	64	73	67	63	69
6	1	81	71	64	59	80	70	64	59	68	62	58	65
7	1	77	66	59	55	75	66	59	54	64	58	54	61
8	1	73	62	56	51	72	62	55	51	60	54	50	58
9	1	69	59	52	48	68	58	52	47	57	51	47	55
10	1	66	55	49	45	65	55	49	45	54	48	44	52

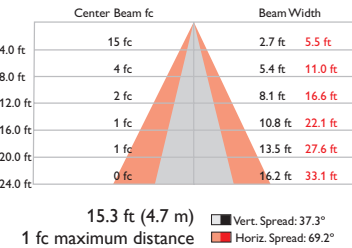
iW Fuse Powercore
1 ft, 30° x 60° (medium beam angle)
4000 K channel only

Lumens	220
Efficacy	26.1

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	128	58.3
0- 40	169	76.7
0- 60	201	91.3
0- 90	217	98.4
90-120	3	1.3
90-130	3	1.5
90-150	3	1.6
90-180	3	1.6
0-180	220	100.0

Coefficients Of Utilization - Zonal Cavity Method

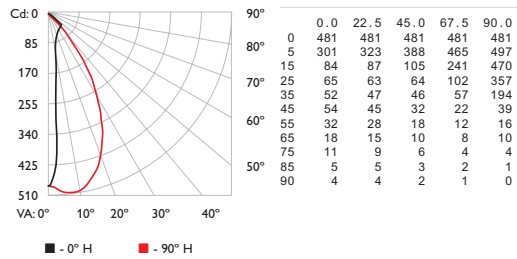
		Effective Floor Cavity Reflectance: 20%											
		80			70			50			30		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	1	119	119	119	119	116	116	116	116	110	101	101	98
1	1	112	108	105	102	109	106	103	100	101	99	97	94
2	1	105	99	94	90	102	97	92	89	93	90	86	87
3	1	98	91	85	80	96	89	84	79	86	82	78	81
4	1	93	84	77	72	91	83	77	72	80	75	71	76
5	1	87	78	71	66	85	77	70	66	75	69	65	71
6	1	82	72	66	61	81	71	65	60	70	64	60	67
7	1	78	68	61	56	76	67	60	56	65	60	55	63
8	1	74	63	57	52	73	63	56	52	61	56	51	59
9	1	70	60	53	49	69	59	53	49	58	52	48	56
10	1	67	56	50	46	66	56	50	46	55	49	45	53

For lux multiply fc by 10.7

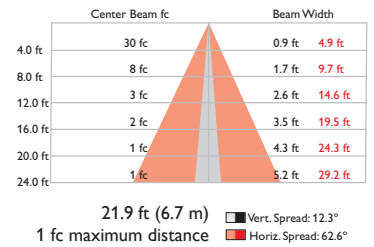
iW Fuse Powercore
1 ft, 10° x 60° (narrow beam angle)
6500 K channel only

Lumens	254
Efficacy	30.6

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	136	53.6
0- 40	178	70.2
0- 60	226	88.7
0- 90	248	97.6
90-120	5	1.8
90-130	5	2.1
90-150	6	2.4
90-180	6	2.4
0-180	254	100.0

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																					
RC	RW	80				70				50				30				10				0	
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10					
0		118118118118				115115115115				110110110				105105105				100100100	98				
1		111107104101				108105102	99			100	98	96		96	94	92		92	91	89	87		
2		104	98	92	88			101	96	91	87		92	88	85	82		85	83	80	78		
3		97	89	83	78			95	88	82	77		85	80	76		82	78	74	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	52	47		57	51	47		56	50	47	54	50	46	45
10		66	55	49	45			65	55	49	44		54	48	44		53	48	44	52	47	44	42

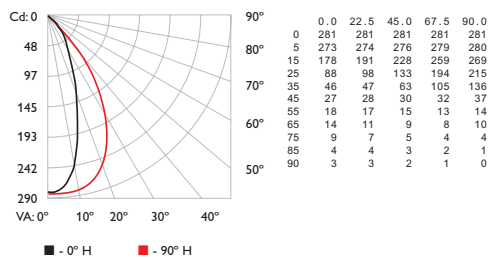
%: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

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

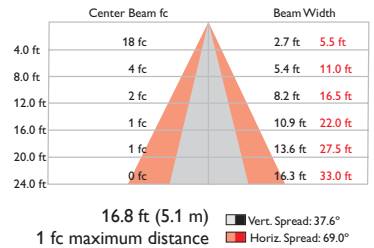
iW Fuse Powercore
1 ft, 30° x 60° (medium beam angle)
6500 K channel only

Lumens	266
Efficacy	31.1

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	155	58.3
0- 40	204	76.6
0- 60	243	91.3
0- 90	262	98.4
90-120	3	1.3
90-130	4	1.5
90-150	4	1.6
90-180	4	1.6
0-180	266	100.0

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	50	30	10	0			
0	1	119119119119				116116116116				110110110			105105105			101101101			98			
1	1	112108105102				109106103100				101	99	97	97	95	94	94	92	91	89			
2	1	105	99	94	90	102	97	92	89	93	90	86	90	87	84	87	84	82	80			
3	1	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73			
4	1	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67			
5	1	87	78	71	66	85	77	70	66	75	69	65	73	68	64	71	67	63	62			
6	1	82	72	66	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	1	78	68	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			
8	1	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	54	51	49			
9	1	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46			
10	1	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	48	45	43			

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

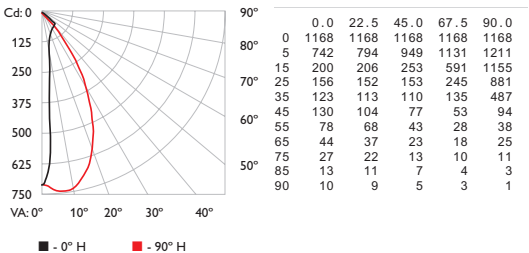
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

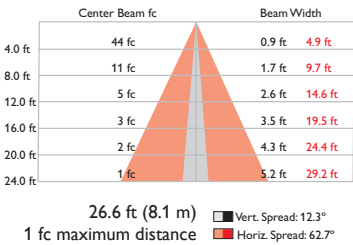
iW Fuse Powercore
1 ft, 10° x 60° (narrow beam angle)
All channels (full on)

Lumens	613
Efficacy	38.3

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	331	54.0
0- 40	433	70.7
0- 60	547	89.2
0- 90	600	97.9
90-120	10	1.6
90-130	12	1.9
90-150	13	2.1
90-180	13	2.1
0-180	613	100.0

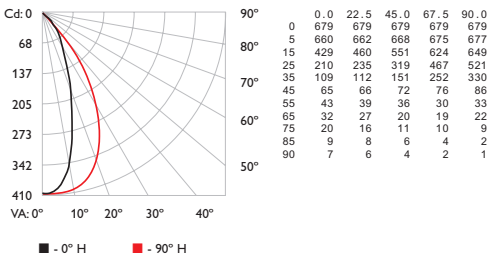
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%									
RC	80	70	50	30	10	0	50	30	10	0	0
RW	70	50	30	10	70	50	30	10	50	30	10
0	119119119119	116116116116	110110110	105105105	100100100	98					
1	111107104101	108105102100	1019896	969593	939190	88					
2	104989388	101969187	928885	898683	868381	79					
3	97908379	95888278	858076	827875	797673	71					
4	92827671	89817570	797369	767268	747067	65					
5	86766964	84756964	736763	716662	696562	60					
6	81716459	80706459	686258	676158	656157	55					
7	77666055	75665954	645854	635754	615753	51					
8	73625651	72625551	605450	595450	585350	48					
9	69595248	68585248	575147	565147	555047	45					
10	66554945	65554945	544844	534844	524744	43					

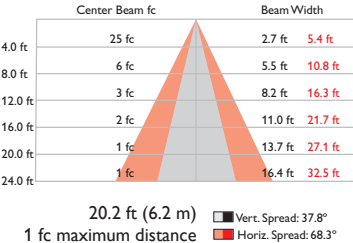
iW Fuse Powercore
1 ft, 30° x 60° (medium beam angle)
All channels (full on)

Lumens	636
Efficacy	38.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	374	58.8
0- 40	490	77.1
0- 60	582	91.6
0- 90	625	98.4
90-120	8	1.3
90-130	9	1.5
90-150	10	1.6
90-180	10	1.6
0-180	636	100.0

Coefficients Of Utilization - Zonal Cavity Method

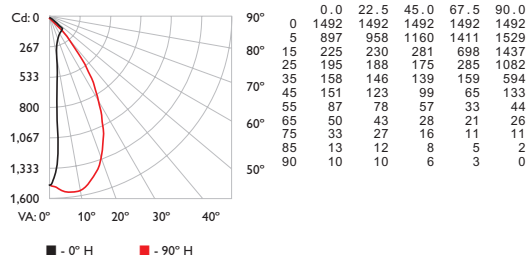
		Effective Floor Cavity Reflectance: 20%									
RC	80	70	50	30	10	0	50	30	10	0	0
RW	70	50	30	10	70	50	30	10	50	30	10
0	119119119119	116116116116	110110110	105105105	101101101	98					
1	112108105102	109106103101	1019997	979694	949291	89					
2	105999490	102979389	939087	908785	878583	81					
3	99918580	96898480	868278	848077	817875	73					
4	93847873	91837772	807571	787470	767269	67					
5	88787166	86777166	756965	736864	716764	62					
6	83736661	81726561	706460	686360	676259	57					
7	78686156	77676156	666056	645955	635855	53					
8	74645752	73635752	625652	605552	595551	50					
9	70605349	69595349	585349	575248	565148	47					
10	67565046	66565046	554946	544945	534945	44					

For lux multiply fc by 10.7

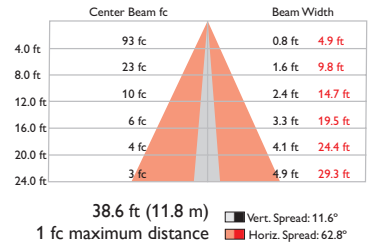
iW Fuse Powercore
4 ft, 10° x 60° (narrow beam angle)
2700 K channel only

Lumens	729
Efficacy	35.4

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	391	53.6
0- 40	515	70.5
0- 60	650	89.1
0- 90	712	97.6
90-120	13	1.8
90-130	15	2.1
90-150	17	2.4
90-180	18	2.4
0-180	729	100.0

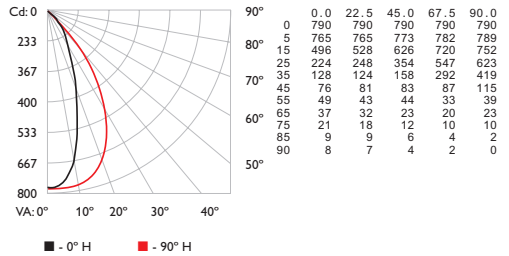
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
		80			70			50			30		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	1	1181	181	181	118	1151	151	151	115	1101	101	105	98
1	1	1111	107	104	101	108	105	102	100	100	98	96	92
2	1	104	98	93	88	101	96	91	87	92	88	85	85
3	1	97	90	83	79	95	88	82	78	85	80	76	79
4	1	92	82	76	71	89	81	75	70	79	73	69	74
5	1	86	76	69	64	84	75	69	64	73	67	63	69
6	1	81	71	64	59	80	70	64	59	68	63	58	65
7	1	77	66	60	55	75	66	59	55	64	58	54	61
8	1	73	62	56	51	72	62	55	51	60	55	50	58
9	1	69	59	52	48	68	58	52	48	57	51	47	55
10	1	66	56	49	45	65	55	49	45	54	48	44	52

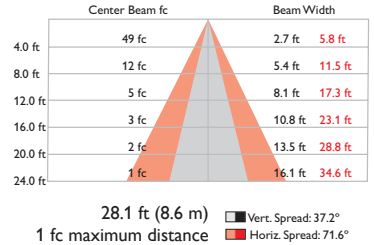
iW Fuse Powercore
4 ft, 30° x 60° (medium beam angle)
2700 K channel only

Lumens	727
Efficacy	35.5

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	426	58.5
0- 40	558	76.8
0- 60	666	91.6
0- 90	714	98.2
90-120	10	1.3
90-130	11	1.6
90-150	13	1.8
90-180	13	1.8
0-180	727	100.0

Coefficients Of Utilization - Zonal Cavity Method

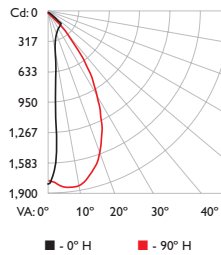
		Effective Floor Cavity Reflectance: 20%											
		80			70			50			30		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	1	1191	191	191	119	1161	161	161	116	1101	101	105	98
1	1	1121	108	105	102	109	106	103	101	101	99	97	94
2	1	105	99	94	90	102	97	93	89	93	90	87	85
3	1	99	91	85	80	96	89	84	80	86	82	78	81
4	1	93	84	78	73	91	83	77	72	80	75	71	76
5	1	88	78	71	66	86	77	71	66	75	69	65	71
6	1	83	73	66	61	81	72	65	61	70	64	60	67
7	1	78	68	61	56	77	67	61	56	66	60	56	63
8	1	74	64	57	52	73	63	57	52	62	56	52	59
9	1	70	60	53	49	69	59	53	49	58	53	49	56
10	1	67	56	50	46	66	56	50	46	55	49	45	53

For lux multiply fc by 10.7

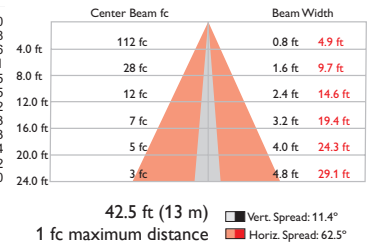
iW Fuse Powercore
4 ft, 10° x 60° (narrow beam angle)
4000 K channel only

Lumens	880
Efficacy	42.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	469	53.3
0- 40	618	70.2
0- 60	782	88.9
0- 90	858	97.5
90-120	16	1.8
90-130	19	2.2
90-150	22	2.5
90-180	22	2.5
0-180	880	100.0

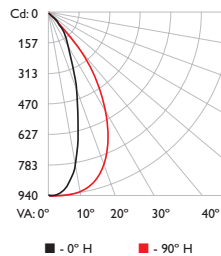
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
		80			70			50			30		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	118118118118	118118118118	115115115115	115115	110110110	105105105	100100100	97					
1	111107104101	108105102	99	100	98	96	96	94	93	92	91	89	87
2	104	98	93	88	101	96	91	87	92	88	85	83	80
3	97	89	83	78	95	88	82	78	85	80	76	73	71
4	91	82	76	71	89	81	75	70	78	73	69	67	65
5	86	76	69	64	84	75	69	64	73	67	63	61	60
6	81	71	64	59	79	70	63	59	68	62	58	57	55
7	77	66	59	55	75	65	59	54	64	58	54	53	51
8	73	62	55	51	71	61	55	51	60	54	50	49	48
9	69	59	52	47	68	58	52	47	57	51	47	46	45
10	66	55	49	45	65	55	49	45	54	48	44	44	42

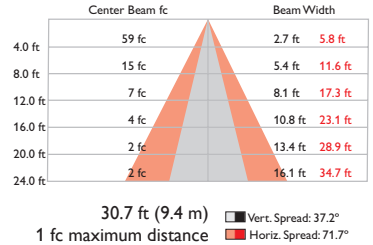
iW Fuse Powercore
4 ft, 30° x 60° (medium beam angle)
4000 K channel only

Lumens	861
Efficacy	42.0

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	502	58.4
0- 40	660	76.7
0- 60	788	91.6
0- 90	845	98.2
90-120	11	1.3
90-130	13	1.6
90-150	15	1.8
90-180	15	1.8
0-180	861	100.0

Coefficients Of Utilization - Zonal Cavity Method

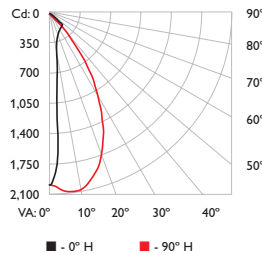
		Effective Floor Cavity Reflectance: 20%											
		80			70			50			30		
RC	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	119119119119	116116116116	110110110	105105105	100100100	98							
1	112108105102	109106103101	101	99	97	97	96	94	94	92	91	89	87
2	105	99	94	90	102	97	93	89	93	90	87	85	81
3	99	91	85	80	96	89	84	80	86	82	78	75	73
4	93	84	78	73	91	83	77	72	80	75	71	69	67
5	87	78	71	66	86	77	71	66	75	69	65	63	62
6	83	73	66	61	81	72	65	61	70	64	60	59	57
7	78	68	61	56	77	67	61	56	66	60	56	55	53
8	74	64	57	52	73	63	57	52	62	56	52	51	50
9	70	60	53	49	69	59	53	49	58	52	48	47	45
10	67	56	50	46	66	56	50	46	55	49	45	44	42

For lux multiply fc by 10.7

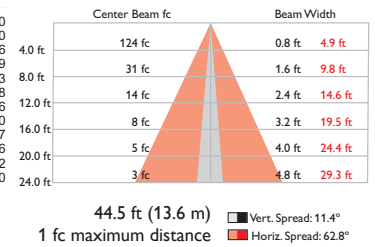
iW Fuse Powercore
4 ft, 10° x 60° (narrow beam angle)
6500 K channel only

Lumens	983
Efficacy	47.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	526	53.5
0- 40	693	70.5
0- 60	878	89.3
0- 90	962	97.9
90-120	16	1.6
90-130	19	1.9
90-150	21	2.1
90-180	21	2.1
0-180	983	100.0

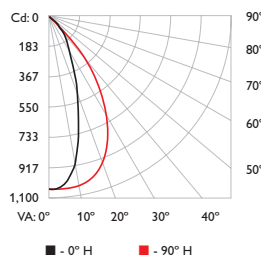
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																		
RC RW	80				70				50				30				10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	119119119119	116116116116	116116116116	116116116116	110110110	105105105	100100100	98												
1	111108104101	108105102100	1019896	969593	939190	88														
2	104989388	101969187	928885	898683	868381	79														
3	97908379	95888278	858076	827875	797673	71														
4	92827671	89817570	797369	767268	747067	65														
5	86766964	84756964	736763	716662	696562	60														
6	81716459	80706359	686258	666158	656057	55														
7	77665955	75665954	645854	625753	615753	51														
8	73625551	72625551	605450	595450	585350	48														
9	69595248	68585247	575147	565147	555047	45														
10	66554945	65554945	544844	534844	524744	42														

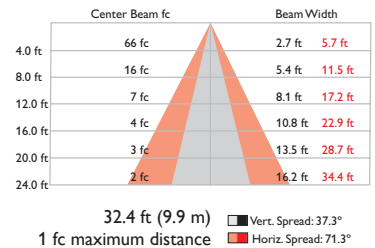
iW Fuse Powercore
4 ft, 30° x 60° (medium beam angle)
6500 K channel only

Lumens	967
Efficacy	47.2

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	565	58.5
0- 40	742	76.7
0- 60	885	91.5
0- 90	950	98.2
90-120	13	1.3
90-130	15	1.6
90-150	17	1.8
90-180	17	1.8
0-180	967	100.0

Coefficients Of Utilization - Zonal Cavity Method

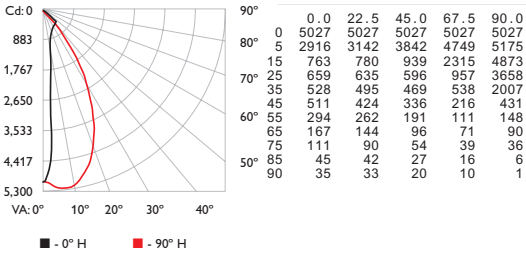
		Effective Floor Cavity Reflectance: 20%																				
RC		80				70				50				30				10				
RW		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0	119119119119	116116116116	116116116116	116116116116	110110110	105105105	100100100	98														
1	112108105102	109106103101	1019997	979694	949291	89																
2	105999490	102979389	939087	908785	878582	81																
3	99918580	96898480	868278	848077	817875	73																
4	93847873	91837772	807571	787470	767269	67																
5	87787166	86777166	756965	736864	716764	62																
6	83736661	81726561	706460	686360	676259	57																
7	78686156	77676156	666056	645955	635855	53																
8	74645752	73635752	625652	605552	595551	50																
9	70605349	69595349	585249	575248	565148	47																
10	67565046	66565046	554946	544945	534845	44																

For lux multiply fc by 10.7

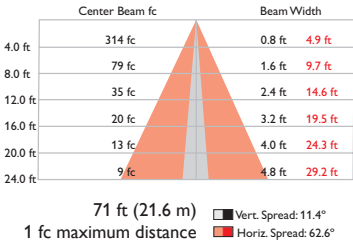
iW Fuse Powercore
4 ft, 10° x 60° (narrow beam angle)
All channels full on

Lumens	2455
Efficacy	48.6

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1314	53.5
0- 40	1729	70.4
0- 60	2185	89.0
0- 90	2394	97.5
90-120	45	1.8
90-130	54	2.2
90-150	61	2.5
90-180	61	2.5
0-180	2455	100.0

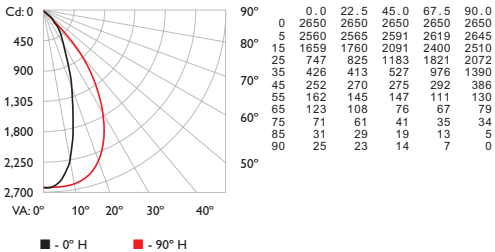
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																				
		80				70				50				30				10				0
RC	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0		118118118118				115115115115				110110110			105105105			100100100			97			
1		111107104101				108105102	99			100	98	96	96	94	93	92	91	89	87			
2		104	98	93	88	101	96	91	87	92	88	85	89	85	83	85	83	81	79			
3		97	90	83	79	95	88	82	78	85	80	76	82	78	75	79	76	73	71			
4		92	82	76	71	89	81	75	70	78	73	69	76	72	68	74	70	67	65			
5		86	76	69	64	84	75	69	64	73	67	63	71	66	62	69	65	61	60			
6		81	71	64	59	80	70	63	59	68	62	58	66	61	57	65	60	57	55			
7		77	66	59	55	75	66	59	54	64	58	54	62	57	53	61	56	53	51			
8		73	62	56	51	72	62	55	51	60	54	50	59	54	50	58	53	50	48			
9		69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10		66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	47	44	42			

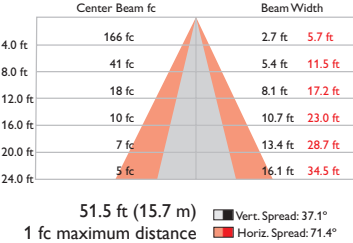
iW Fuse Powercore
4 ft, 30° x 60° (medium beam angle)
All channels full on

Lumens	2427
Efficacy	48.2

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1420	58.5
0- 40	1863	76.7
0- 60	2222	91.6
0- 90	2383	98.2
90-120	32	1.3
90-130	39	1.6
90-150	44	1.8
90-180	45	1.8
0-180	2427	100.0

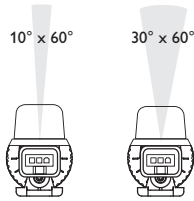
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																				
		80				70				50				30				10				0
RC	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0	1	119119119119				116116116116				110110110			105105105			100100100			98			
1	1	112108105102				109106103101				1019997			979694			949291			89			
2	1	105999490				1029793989				939087			908785			878582			81			
3	1	99918580				96898480				868278			848077			817875			73			
4	1	93847873				91837772				807571			787470			767269			67			
5	1	88787166				86777166				756965			736864			716764			62			
6	1	83736661				81726561				706460			686360			676259			57			
7	1	78686156				77676156				666056			645955			635855			53			
8	1	74645752				73635752				625652			605552			595551			50			
9	1	70605349				69595349				585349			575248			565148			47			
10	1	67565046				66565046				554946			544945			534945			44			

For lux multiply fc by 10.7

iW Fuse Powercore Specifications: 1 ft (305 mm)

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



Item	Beam Angle	2700 K*	4000 K*	6500 K*	All Channels
Lumens†	10° x 60°	185	212	254	613
	30° x 60°	186	220	266	636
Efficacy (lm / W)	10° x 60°	21.8	25.6	30.6	38.3
	30° x 60°	22.1	26.1	31.1	38.8
CRI	10° x 60°	82	81	73	81
	30° x 60°	82	82	73	81

Item	Specification	Details
Output	Beam Angle	10° x 60° (narrow) / 30° x 60° (medium)
	Color Temperature*	2700 K – 6500 K
	LED Channels	2700 K / 4000 K / 6500 K
	Lumen Maintenance‡	50,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 50,000 hours L50 @ 25° C 50,000 hours L50 @ 50° C
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	12.5 W maximum at full output, steady state
Control	Interface	Data Enabler Pro (DMX / Ethernet)
	Control System	Philips Color Kinetics full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions (Height x Width x Depth)	2.1 x 12 x 1.5 in (53 x 305 x 39 mm)
	Weight	0.98 lbs (.45 kg)
	Housing	Die-cast aluminium, white powder-coated finish
	Lens	Polycarbonate
	Fixture Connections	Integral male / female connectors
	Temperature Ranges	-4° – 122° F (-20° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
Certification and Safety	Certification	UL / cUL, FCC Class B, CE, PSE, CCC, SAA, C-Tick
		Environment
	Environment	Dry / Damp Location, IP20

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



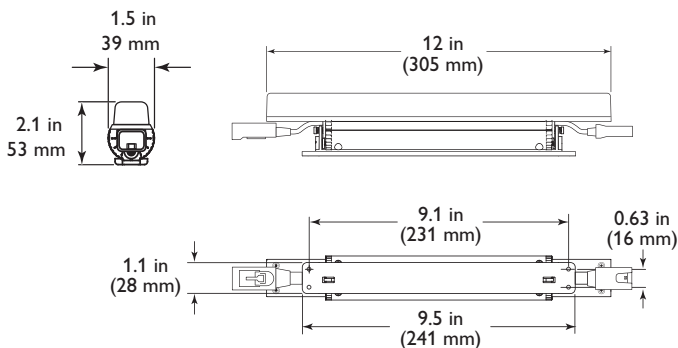
† Lumen measurement complies with IES LM-79-08 testing procedures.

‡ L70 = 70% maintenance of lumen output (when light output drops below 70% of initial output). L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output). Ambient temperatures specified. 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.

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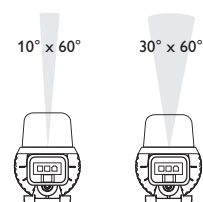


iW Fuse Powercore Specifications: 4 ft (1.2 m)

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

Item	Beam Angle	2700 K*	4000 K*	6500 K*	All Channels
Lumens†	10° x 60°	729	880	983	2455
	30° x 60°	727	861	967	2427
Efficacy (lm / W)	10° x 60°	35.4	42.7	47.7	48.6
	30° x 60°	35.5	42.0	47.2	48.2
CRI	10° x 60°	82	81	74	82
	30° x 60°	82	81	74	82

Item	Specification	Details
Output	Beam Angle	10° x 60° (narrow) / 30° x 60° (medium)
	Color Temperature*	2700 K – 6500 K
	LED Channels	2700 K / 4000 K / 6500 K
	Lumen Maintenance‡	50,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 50,000 hours L50 @ 25° C 50,000 hours L50 @ 50° C
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	50 W maximum at full output, steady state
Control	Interface	Data Enabler Pro (DMX / Ethernet)
	Control System	Philips Coloir Kinetics full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions (Height x Width x Depth)	2.1 x 48 x 1.5 in (53 x 1219 x 39 mm)
	Weight	4.37 lbs (1.98 kg)
	Housing	Die-cast aluminium, white powder-coated finish
	Lens	Polycarbonate
	Fixture Connections	Integral male / female connectors
	Temperature Ranges	-4° – 122° F (-20° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Humidity	0 – 95%, non-condensing
Certification and Safety	Fixtures 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	UL / cUL, FCC Class B, CE, PSE, CCC, SAA, C-Tick
	Environment	Dry / Damp Location, IP20



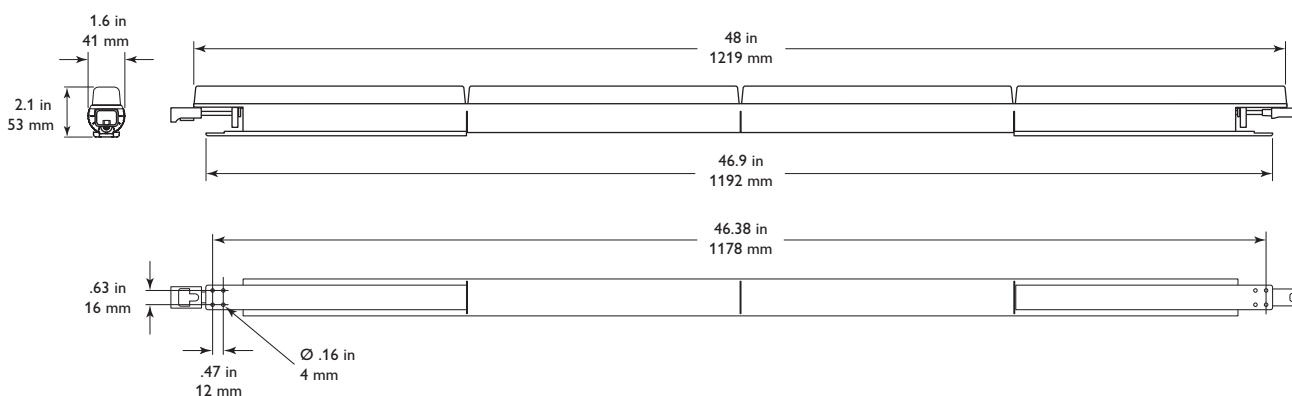
* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.



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

‡ L70 = 70% maintenance of lumen output (when light output drops below 70% of initial output).
L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output). Ambient temperatures specified. 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.



Included in the box

iW Fuse Powercore fixture
Installation Instructions

Fixtures and Accessories

iW Fuse Powercore fixtures are part of a complete system which includes fixtures and:

- One or more Data Enabler Pro devices.
- One Leader Cable to connect each Data Enabler Pro output to a series of fixtures, or one Wiring Compartment with a sufficient length of 4-conductor copper wire. Standard 12 AWG stranded wire is recommended..
- Any Philips controller, including Light System Manager, iPlayer 3, and ColorDial Pro, or a third-party controller.

Item	Type		Item Number	Philips 12NC
iW Fuse Powercore 1 ft (305 mm)	10° x 60°	UL / cUL / CE	523-000066-00	910503701785
		CCC	523-000066-02	910503701995
	30° x 60°	UL / cUL / CE	523-000066-01	910503701786
		CCC	523-000066-03	910503701996
iW Fuse Powercore 4 ft (1.2 m)	10° x 60°	UL / cUL / CE	523-000066-04	910503702515
		CCC	523-000066-06	910503703187
	30° x 60°	UL / cUL / CE	523-000066-05	910503702516
		CCC	523-000066-07	910503703188

Optional mounting track ensures straight runs of fixtures.

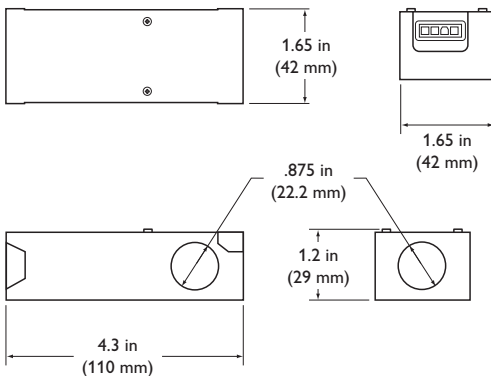
Depending on the installation's design,
you may need jumper cables to add space between fixtures.

Mounting Track, White	1 @ 4 ft (1219 mm)		120-000124-00	910503701787
Leader Cable with Terminator	10 ft (3.1 m)	UL / cUL	108-000050-00	910503701686
		CE / CCC	108-000050-01	910503701687
Jumper Cable	1 ft (305 mm)	UL / cUL	108-000049-01	910503701683
		CE / CCC	108-000049-03	910503701685
	5 ft (1.5 m)	UL / cUL	108-000049-00	910503701682
		CE / CCC	108-000049-02	910503701684
Wiring Compartment with Terminator		UL / cUL	120-000077-02	910503701740
Terminator, Quantity 10			120-000058-00	910503700146

Data Enabler Pro	3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)	106-000004-01	910503701211

Use Item Number when ordering in North America.

Wiring Compartment dimensions



Installation

iW Fuse Powercore offers high-intensity surface grazing and wall washing with Powercore technology. Powercore, 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 iW 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.

Prepare for the Installation

Determine the appropriate location of each Data Enabler Pro in relation to the fixtures, and of the fixtures in relation to each other. The Data Enabler Pro and first fixture must be separated by no more than the 10 ft (3.1 m) length of the Leader Cable.

iW 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.

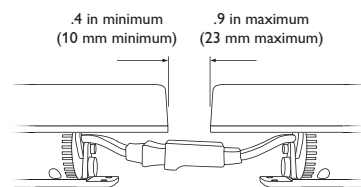
The maximum number of fixtures each Data Enabler Pro can support depends on specific configuration details such as fixture length, fixture spacing, circuit size, line voltage, and Leader Cable length. For help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.

In addition to maximum fixture run lengths determined by the electrical configuration, each Data Enabler Pro imposes maximum run lengths based on data integrity. To ensure data integrity, maximum individual run lengths should not exceed 175 ft (53.3 m), and the total cable length per Data Enabler Pro should not exceed 400 ft (122 m).

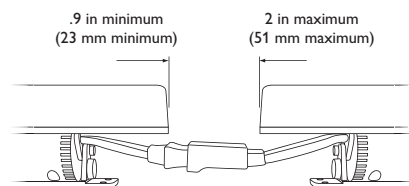
✱ Refer to the iW Fuse Powercore Installation Instructions for specific warning and caution statements.

✱ Refer to the Data Enabler Pro Installation Instructions or Product Guide for guidelines on configuring and positioning the Data Enabler Pro in relation to the controller.

Distance between fixtures joined end-to-end



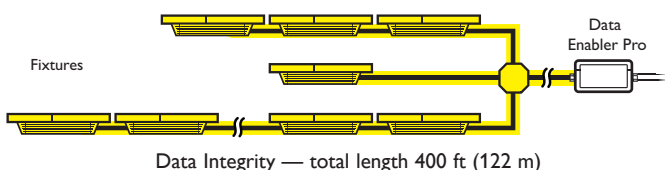
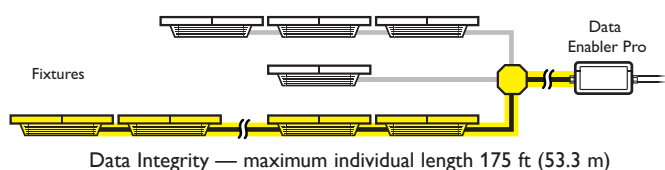
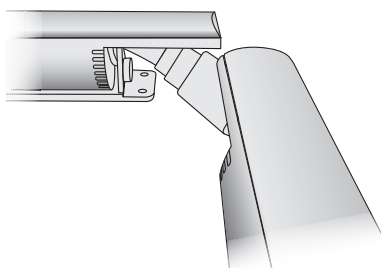
1 ft (305 mm) fixtures



4 ft (1.2 m) fixtures

Easy turns

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



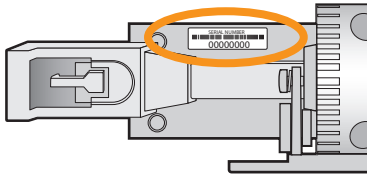
Start the Installation

1. Install all Data Enabler Pro devices, including any interfaces with controllers.
One Leader Cable is required to connect each run or series of fixtures to a Data Enabler Pro. The Data Enabler Pro sends power and control signals to the fixtures over the Leader Cable.
2. Verify that all additional supporting equipment (switches, controllers) is in place.
3. If your installation calls for Jumper Cables to add space between fixtures, make sure they are available.
4. Ensure that all additional parts (optional mounting tracks, mounting hardware, terminators) and tools are available.

Included in the box

iW Fuse Powercore fixture

Installation Instructions

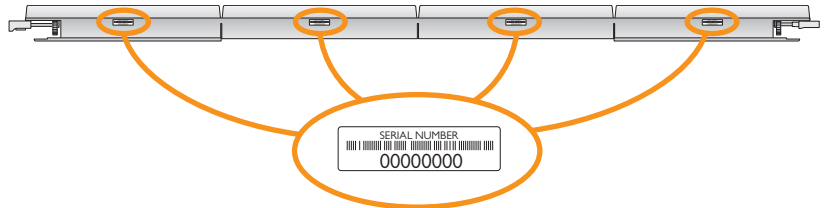


Location of serial number on 1 ft (305 mm) iW Fuse Powercore fixtures

Unpack and Prepare Fixtures

1. Carefully inspect the box containing iW Fuse Powercore and the contents for any damage that may have occurred in transit.
2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and Leader and Jumper Cables.
3. iW Fuse Powercore fixtures are addressable in 1 ft (305 mm) segments. This feature allows playback controllers to send unique light output data to each segment of each fixture within your installation.

Each fixture segment (node) comes pre-programmed with a unique serial number. Fixtures have one or four serial numbers depending on fixture length. As you unpack the fixtures, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.



Location of serial numbers on 4 ft (1.2 m) iW Fuse Powercore fixtures

4. Assign each fixture to a position in the lighting design plan.
5. To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each fixture's housing.

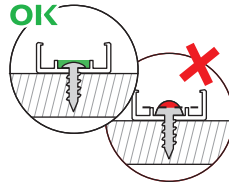
Install the Fixtures

You can mount iW Fuse Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. For linear applications, you can install several iW Fuse Powercore fixtures in optional 4 ft (1.2 m) lengths of mounting track to ensure straight runs.

(Optional) Install Mounting Tracks

1. Field-cut the mounting tracks to the desired length with hacksaws 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).



Mount and Connect the Fixtures

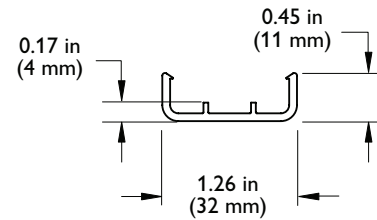
Make sure the power is OFF before mounting and connecting fixtures.

1. Rotate an iW 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.

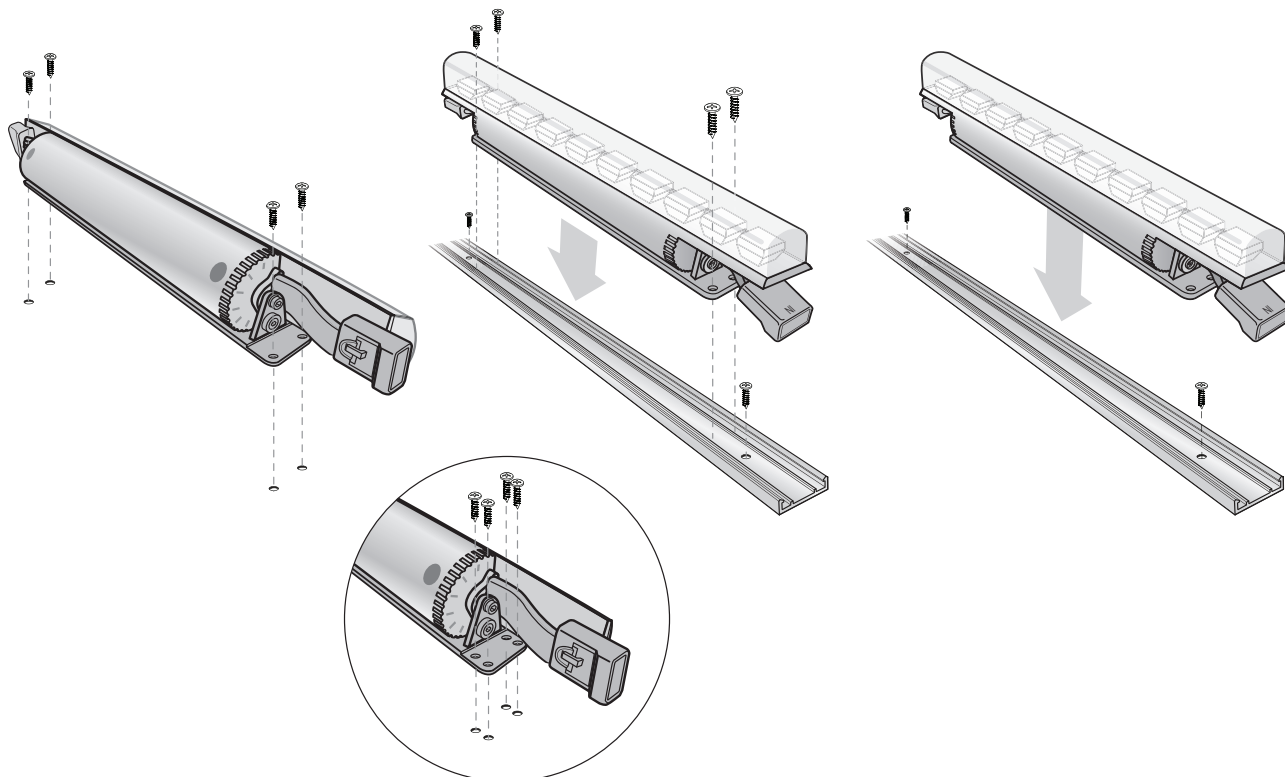
If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach 1 ft (305 mm) fixtures with four #6 (3.5 mm) mounting screws each (not included) suitable for the mounting surface. Attach 4 ft (1.2 m) fixtures with eight #6 (3.5 mm) mounting screws suitable for the mounting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

Ensure that the male connector is in position to receive data and power from the leader cable's female connector.



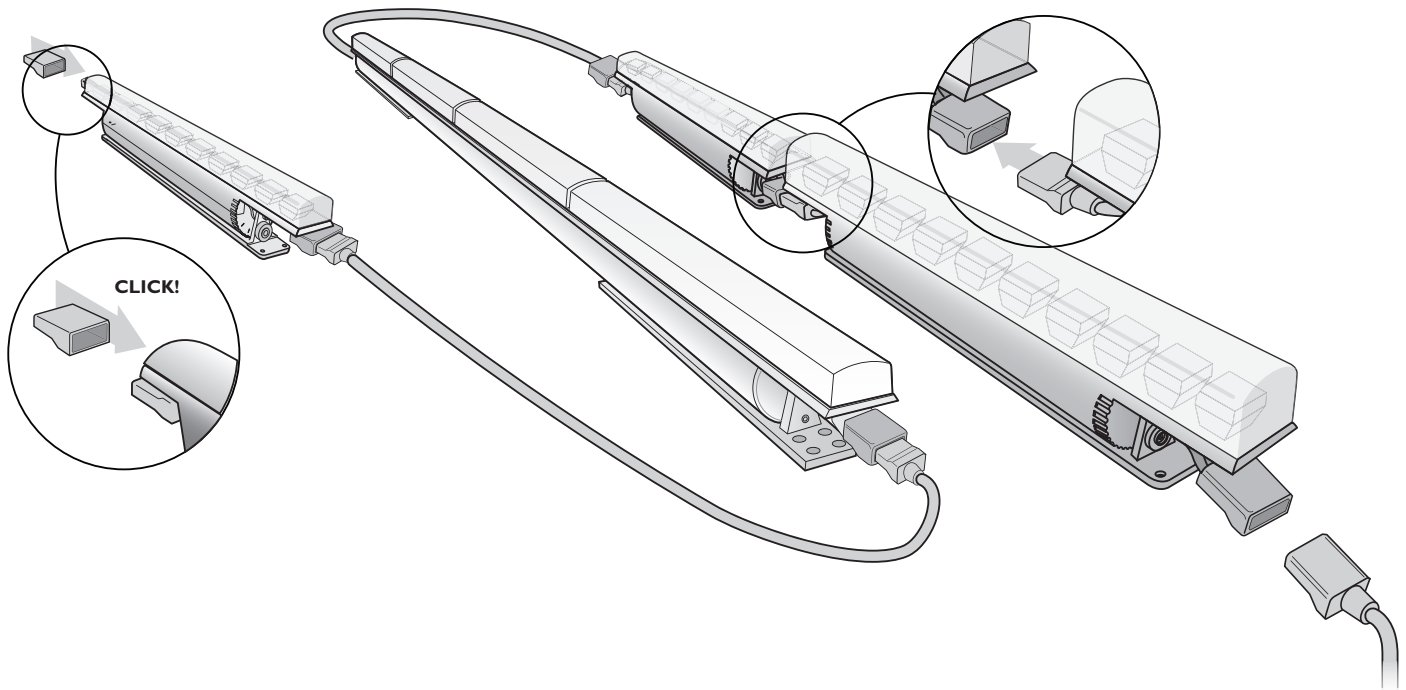
✱ You can use the fixture base as a template when pre-drilled holes are required. Hold the fixture in place and mark the four screw holes.

✱ If using the Wiring Compartment to run conduit from Data Enabler Pro to the first fixture in a run, make sure you leave enough space at the end of the run to accommodate the Wiring Compartment.



Mounting 4 ft (1.2 m) fixtures

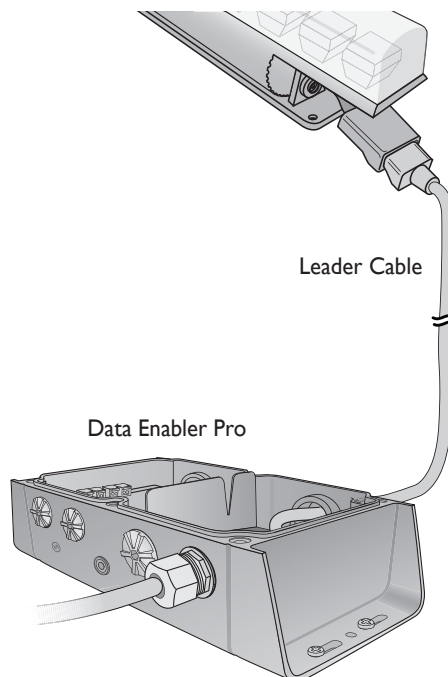
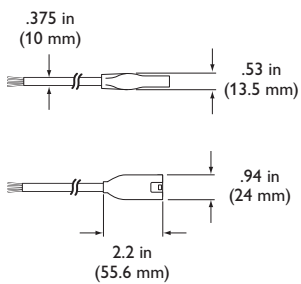
3. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. Attach the fixture to the surface or snap it into the track.
4. Continue mounting the fixtures, making power / data connections as you go, until all lights in the series are mounted.
5. Insert the provided terminator into the last fixture in the series.



Make Power Connections

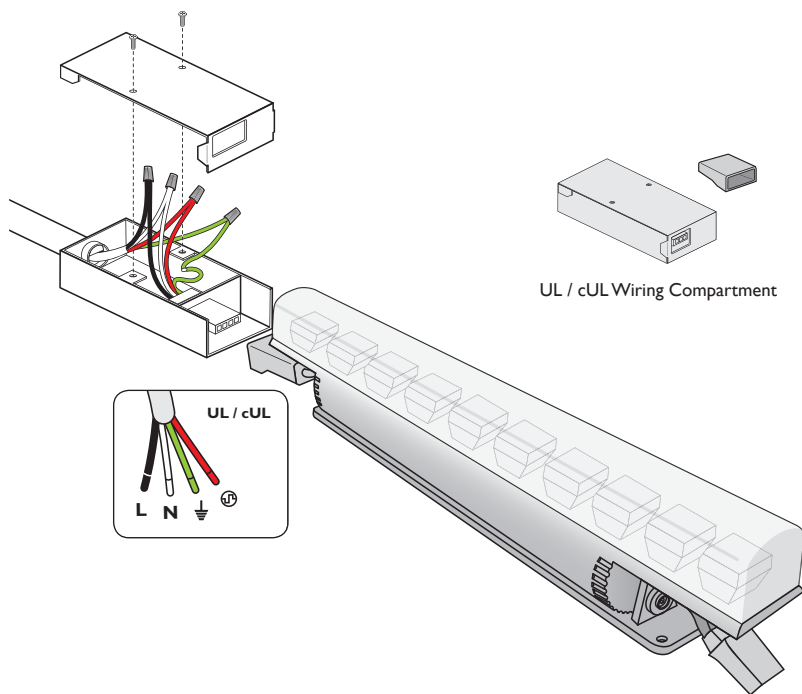
1. If using a Leader Cable, connect the Leader Cable to the first fixture in the series. Run the Leader Cable to the Data Enabler Pro.

Leader Cable connector dimensions

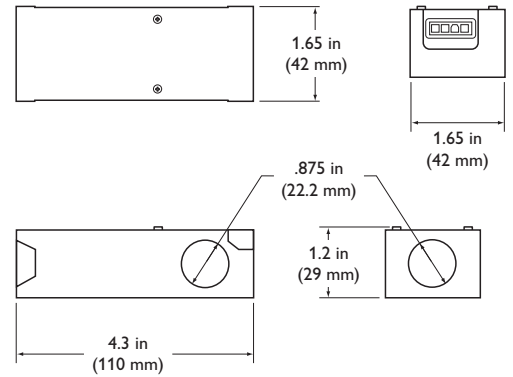


- If using the iW Fuse Powercore Wiring Compartment to run conduit from the Data Enabler Pro to the first fixture in a series, pull cable through conduit. (We recommend standard 4-conductor 12 AWG copper wire.)

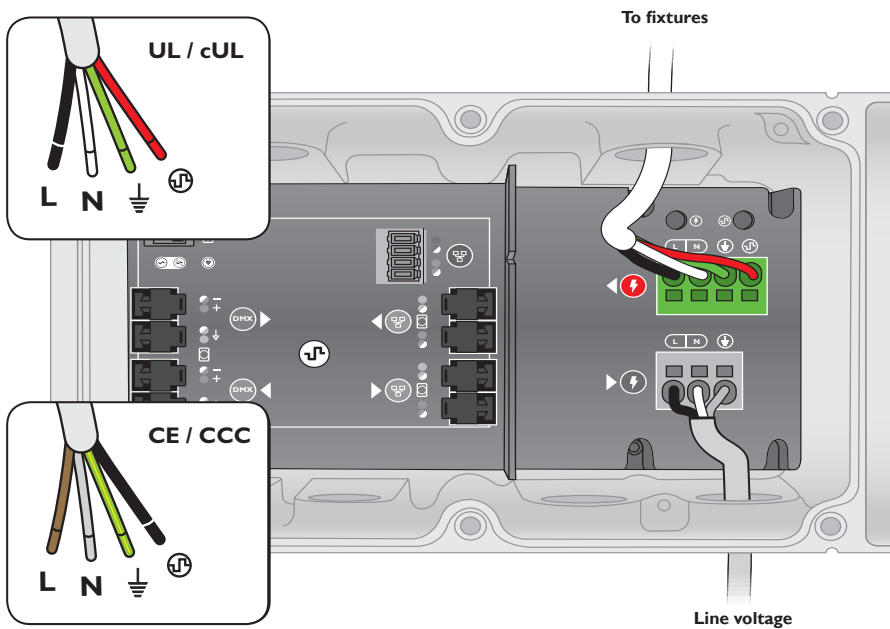
Remove the cover from the Wiring Compartment. Using wire nuts, make wire connections inside the Wiring Compartment housing, then replace the cover. Connect the Wiring Compartment to the first fixture in the series.



Wiring Compartment dimensions



- Secure connections within the Data Enabler Pro housing.



- Repeat steps 1 – 7 for each Data Enabler Pro in the installation.

Controlling iW Fuse Powercore Fixtures

Philips Color Kinetics offers a number of control options for all iW Fuse Powercore fixtures, from simple to complex.

iW Fuse Powercore fixtures are addressable in 1 ft (305 mm) segments, or nodes. iW Fuse Powercore fixtures have one or four nodes, depending on fixture length. Each node is identified by a unique serial number.

Displaying Fixed Light Output

For installations in which you want to manually adjust the brightness and color temperature of all fixtures in unison, use ColorDial Pro or iColor Keypad. With these controllers, no fixture node addressing or configuration is necessary.

ColorDial Pro and iColor Keypad are a Power-Over-Ethernet (PoE) devices that require a PoE switch, or a conventional Ethernet switch with a PoE injector. Refer to the ColorDial Pro or iColor Keypad documentation for details on how to install and use these controllers with iW Fuse Powercore fixtures.

iW Fuse Powercore has three LED channels, warm, neutral, and cool. By default, iW Fuse Powercore is set to two-channel mode. In two-channel mode, fixtures automatically map two channels of data input to the three LED channels. Using QuickPlay Pro addressing and configuration software, you can also set iW Fuse Powercore to operate in three-channel mode.

- In three-channel mode, use the Fixed Color effect in iColor Player or iColor Keypad, or the Fixed Color or Variable Color effect in ColorDial Pro.
- In two-channel mode, use the Fixed White effect in iColor Player, iColor Keypad, or ColorDial Pro.

Displaying Dynamic Light Output

For dynamic installations in which you want to display different light output on iW Fuse Powercore fixture nodes simultaneously, you must use an RGB-based DMX or Ethernet controller such as iColor Player, iPlayer 3, or Light System Manager. To support dynamic effects that automatically modify brightness and color temperature on individual fixtures nodes you must address and configure iW Fuse Powercore as you would any color-changing (RGB) fixture.

iW Fuse Powercore fixtures use DMX addresses to communicate with controllers. The number of DMX addresses each iW Fuse Powercore fixture requires depends on the fixture's configuration.

Addressing iW Fuse Powercore Fixtures

Make sure the power is ON before addressing and configuring fixtures.

You address and configure iW Fuse Powercore fixture nodes using QuickPlay Pro addressing and configuration software. Fixture nodes are identified within QuickPlay Pro by serial number, so you will need the layout grid that you created when you recorded the serial numbers of your fixture nodes during installation planning.

- In Ethernet installations, you can address and configure fixture nodes using QuickPlay Pro with a computer connected to your lighting installation's network. QuickPlay Pro can automatically discover all of your fixture nodes, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure fixture nodes using QuickPlay Pro with iPlayer 3 or SmartJack Pro. You can manually enter fixture node serial numbers, or you can import a spreadsheet listing each fixture node's serial number and starting DMX address.

iW Fuse Powercore fixtures operate in 8-bit mode by default. You can configure fixtures to operate in 16-bit mode, which increases resolution for smoother dimming and more precise control. In 8-bit mode, fixture nodes use one DMX address per LED channel.

 You set iW Fuse Powercore fixtures to two-channel or three-channel mode using QuickPlay Pro addressing and configuration software. You can download QuickPlay Pro from www.philipscolorkinetics.com/support/addressing.

In 16-bit mode, fixture nodes use two DMX addresses per LED channel. The first DMX address corresponds to the “coarse” data for that channel, and the second corresponds to the “fine” data. By using double the number of DMX addresses, 16-bit mode increases resolution from 256 dimming steps to 65,536 (256 x 256) dimming steps.

You can address and configure iW Fuse Powercore fixture nodes in much the same way as you would address any RGB fixture. Addressing differs depending on whether fixtures are in two-channel mode or three-channel mode:

- In three-channel mode, the red channel corresponds to the warm LEDs, the green channel corresponds to the neutral LEDs, and the blue channel corresponds to the cool LEDs.
- In two-channel mode, the red channel corresponds to the warm LEDs, the green channel corresponds to the cool LEDs, and the blue channel is not used.

Note that although the blue DMX channel is not used, it is *assigned*, so that each iW Fuse Powercore fixture node uses three DMX sequential addresses (or a multiple of three addresses), as in three-channel mode.

iW Fuse Powercore fixture nodes come factory-addressed with a starting DMX address of 1. For lighting designs where fixtures work in unison, all fixture nodes can be assigned the same starting DMX address. Changes to the default starting DMX addresses are not necessary, but if nodes were previously readdressed for use in other installations, you must reset them. For light show designs that show different light output on different fixture nodes simultaneously, you must assign unique DMX addresses to your nodes and sort them in a useful order.

The following table shows the DMX channel assignments per node for 8-bit and 16-bit iW Fuse Powercore configurations, assuming a starting DMX address of 1.

DMX Channel Assignments Per Node: Two-Channel Mode

8-bit Mode	1		2		3	
	Warm		Cool		Unused	
16-Bit Mode	1	2	3	4	5	6
	Warm	Warm	Cool	Cool	Unused	Unused

DMX Channel Assignments Per Node: Three-Channel Mode

8-bit Mode	1		2		3	
	Warm		Neutral		Cool	
16-Bit Mode	1	2	3	4	5	6
	Warm	Warm	Neutral	Neutral	Cool	Cool

LED Channels

Channel Mode	RGB	iW Fuse Powercore
Three-Channel Mode	Red	Warm
	Green	Neutral
	Blue	Cool
Two-Channel Mode	Red	Warm
	Green	Cool
	Blue	Unused

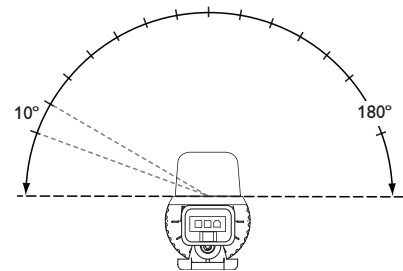
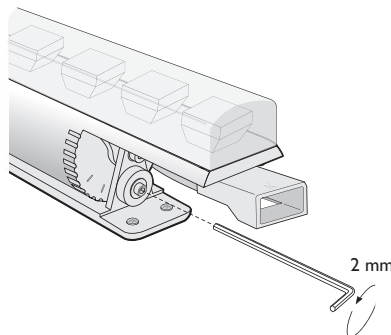
⚠ Do not look directly into the fixture when aiming and locking.

Aim and Lock the Fixtures

Make sure the power is ON before aiming and locking fixtures.

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



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