iW Blast Powercore

The world's leading exterior LED wash fixture with intelligent white light

PHILIPS

COLOR KINETICS

iW Blast Powercore

The world's leading exterior LED wash fixture with intelligent white light

iW Blast Powercore is an intelligent, high-performance white-light LED fixture that goes where white lights have never gone before. With improved output of up to 1852 lumens and superior fixture-to-fixture color consistency, iW Blast Powercore is ideal for situations in which lamp maintenance may be difficult or impossible.

- Integrates patented Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage. The Philips Color Kinetics Data Enabler Pro merges line voltage with control data and delivers them to the fixture over a single standard wire, dramatically simplifying installation and lowering total system cost.
- Supports new applications for white light— Long useful source life (up to 70,000 hours at 70% lumen maintenance) significantly reduces or eliminates maintenance problems, allowing the use of white lighting in spaces where lamp maintenance may be difficult or impossible.
- 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. iW Blast Powercore offers the greatest possible light intensity at all color temperatures. Fixture brightness can be varied while maintaining constant color temperature.
- High-intensity, energy-efficient white light — Produces high-intensity illumination at a significantly lower power draw than comparable ceramic metal halide light sources.
- Versatile lighting options — iW Blast Powercore is available in four beam angles: 21° and 36° for soft edges, 83° with no optic for uniformly washing façades, and 10° for extended light projection. Rugged die-cast aluminum housing is available in white or black.
- Flexible light positioning — Locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets you quickly aim the fixture without special tools.
- Easy installation — Fixtures can be mounted to a junction box on a wall, ceiling, or floor for maximum flexibility. The canopy base allows for after-installation rotation without precise junction box positioning.
- Universal power input range — Accepts a universal power input range of 100 – 240 VAC, allowing long fixture runs and consistent installation in any location around the world.

Outdoor Rated
Fully sealed for maximum fixture life, iW Blast Powercore fixtures meet or exceed specifications for use in wet locations.

New Applications for White Light

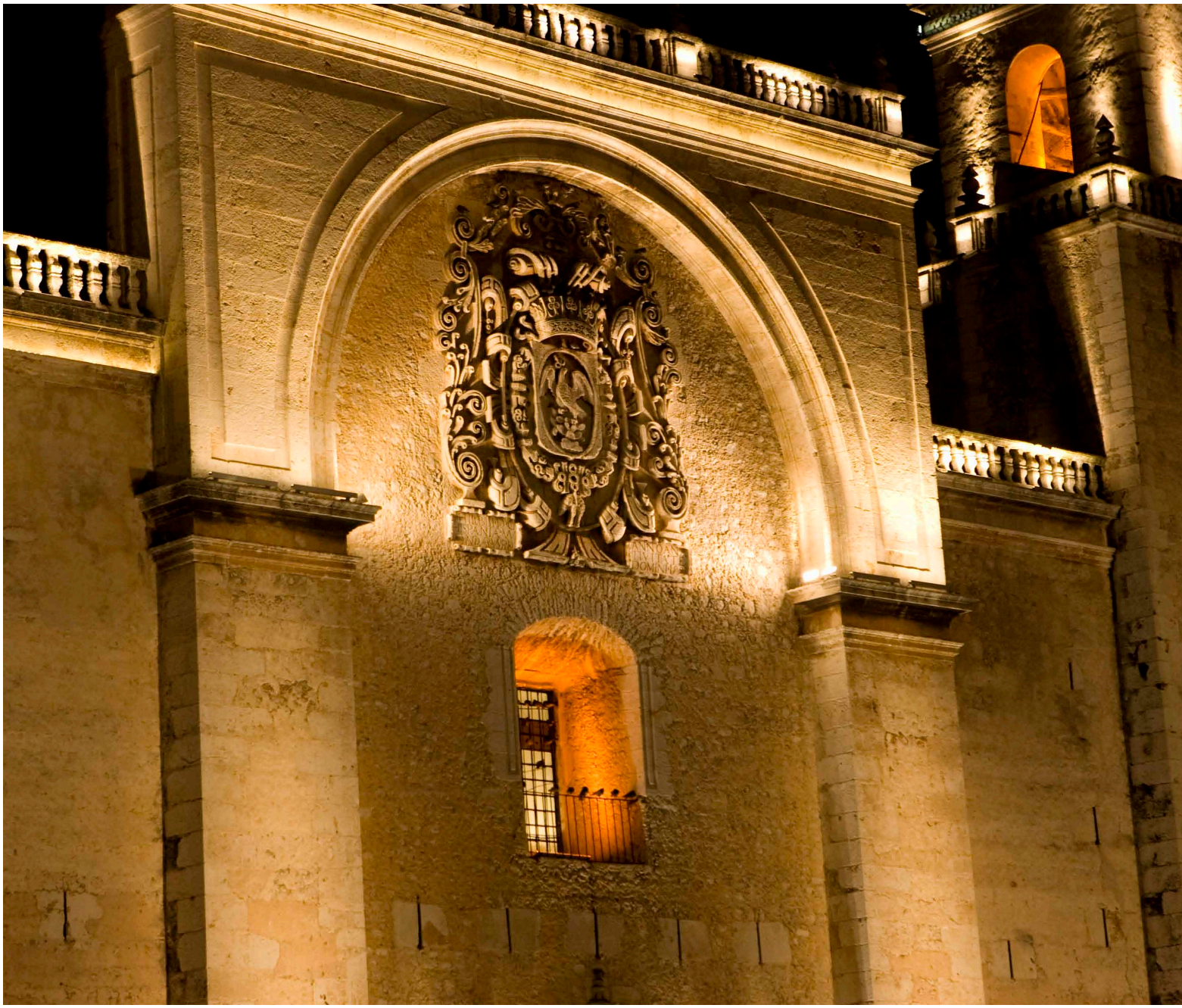
Lighting designers Global Prestige Entrepreneur (GPE) used a variety of fixtures from Philips Color Kinetics, includng iW Blast Powercore, to transform the exterior of the beautiful Cathedral of San Ildefonso and bring the center of the city of Mérida, in the Yucatán, to life.

GPE specified LED lighting solutions because they do not emit infrared and ultraviolet rays which can deteriorate materials, and because their long source life and energy efficiency would reduce maintenance and energy costs.

On the exterior, GPE produced a glowing effect by placing iW Blast Powercore fixtures, along with other LED lighting fixtures from Philips Color Kinetics, on the tower walls. They also lit the main façade with iW Reach Powercore, high-intensity LED floodlights with variable color temperature. Using an iPlayer 3 DMX controller from Philips Color Kinetics, the color temperature of the iW fixtures can be controlled to generate different lighting scenes on the outside façade.

iW Blast Powercore fixtures can also be easily controlled with DMX and Ethernet controllers from Philips Color Kinetics, including ColorDial Pro, iColor Keypad, and iColor Player.

Cathedral of San Ildefonso, Mérida, Yucatán, Mexico



Photography by Christiane Selem Bichara

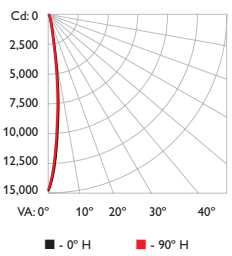
Photometrics

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

iW Blast Powercore 10° clear lens 2700 K channel only

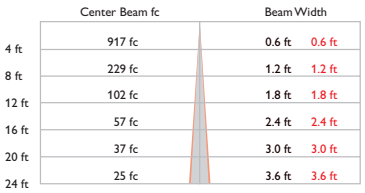
Lumens	552
Efficacy	24.1

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	14676	14676	14676	14676	14676
5	5721	5723	5795	5784	5752
15	220	225	233	228	221
25	79	79	78	79	79
35	35	35	35	35	34
45	15	15	15	15	13
55	5	5	5	5	4
65	2	1	3	3	2
75	1	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



121 ft (36.9 m)
1 fc maximum distance

Vert. Spread: 8.5°
Horiz. Spread: 8.6°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	512	92.8
0- 40	534	96.8
0- 60	549	99.6
0- 90	552	100.0
90-180	0	0.0
0-180	552	100.0

Coefficients Of Utilization - Zonal Cavity Method

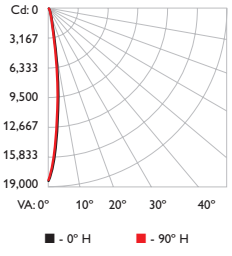
Effective Floor Cavity Reflectance: 20%

RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	95
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	92	92
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88
9	99	94	91	89	98	93	91	89	93	90	88	92	90	88	91	89	88	87
10	97	92	90	88	97	92	89	87	92	89	87	91	89	87	91	88	87	86

iW Blast Powercore 10° clear lens 4000 K channel only

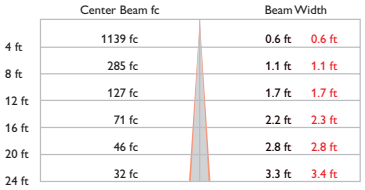
Lumens	641
Efficacy	29.4

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	18230	18230	18230	18230	18230
5	6497	6530	6574	6578	6590
15	266	272	275	263	256
25	102	102	101	100	101
35	38	38	37	37	37
45	16	16	14	14	15
55	8	7	5	5	6
65	4	2	3	2	3
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



135 ft (41.1 m)
1 fc maximum distance

Vert. Spread: 8.0°
Horiz. Spread: 8.1°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	596	93.0
0- 40	620	96.8
0- 60	638	99.5
0- 90	641	100.0
90-180	0	0.0
0-180	641	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

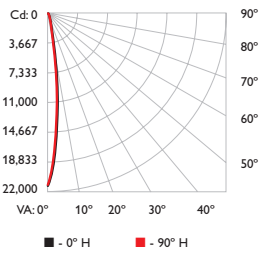
RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94
4	108	103	100	97	106	102	99	97	100	98	96	99	96	95	97	95	94	93
5	105	101	97	95	104	100	97	95	98	96	94	97	95	93	96	94	92	91
6	103	98	95	93	102	98	95	93	97	94	92	95	93	91	94	92	91	90
7	102	97	93	91	101	96	93	91	95	92	90	94	92	90	93	91	90	89
8	100	95	92	90	99	95	92	89	94	91	89	93	91	89	92	90	89	88
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87
10	97	92	89	87	97	92	89	87	91	89	87	91	88	87	90	88	87	86

For lux multiply fc by 10.7

iW Blast Powercore 10° clear lens 6500 K channel only

Lumens	771
Efficacy	35.5

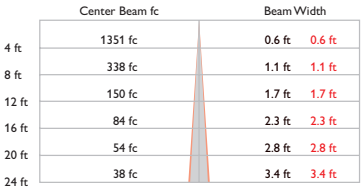
Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	21621	21621	21621	21621	21621
5	7683	7749	7780	7751	7736
15	319	327	335	323	317
25	124	123	124	124	126
35	50	48	48	47	47
45	21	22	21	19	19
55	10	10	10	9	10
65	3	6	5	3	5
75	0	0	1	0	0
85	0	0	0	0	0
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



147 ft (44.8 m)
1 fc maximum distance

Vert. Spread: 8.0°
Horiz. Spread: 8.1°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	711	92.3
0- 40	741	96.2
0- 60	766	99.4
0- 90	771	100.0
90-180	0	0.0
0-180	771	100.0

Coefficients Of Utilization - Zonal Cavity Method

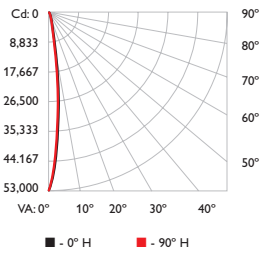
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98
2	113	109	107	105	111	108	105	104	105	103	101	102	100	99	99	98	97	96
3	110	106	103	100	108	105	102	99	102	100	98	100	98	97	98	96	95	94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	92	91
6	103	98	95	92	102	97	94	92	96	93	91	95	92	91	94	92	90	89
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88
8	99	94	91	89	99	94	91	89	93	90	88	92	90	88	91	89	88	87
9	98	93	90	87	97	92	89	87	92	89	87	91	89	87	90	88	87	86
10	96	91	88	86	96	91	88	86	90	88	86	90	88	86	89	87	86	85

iW Blast Powercore 10° clear lens All channels (full on)

Lumens	1852
Efficacy	36.7

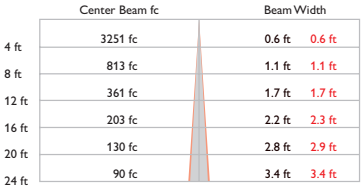
Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	52016	52016	52016	52016	52016
5	18571	18751	18965	18962	18873
15	755	776	788	764	743
25	279	283	283	284	283
35	112	118	114	114	108
45	46	46	46	46	46
55	23	23	23	23	23
65	12	10	12	10	12
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



228 ft (69.5 m)
1 fc maximum distance

Vert. Spread: 8.0°
Horiz. Spread: 8.2°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1711	92.4
0- 40	1783	96.3
0- 60	1840	99.4
0- 90	1852	100.0
90-180	0	0.0
0-180	1852	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

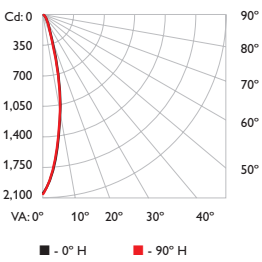
RC	80				70				50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	97	95	94
4	107	103	100	97	106	102	99	97	100	98	96	98	96	94	97	95	93	92
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91
6	103	98	95	92	102	98	94	92	96	94	92	95	93	91	94	92	90	90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88
8	100	95	91	89	99	94	91	89	93	91	89	93	90	88	92	90	88	87
9	98	93	90	88	97	93	90	88	92	89	88	91	89	87	91	89	87	86
10	97	92	89	87	96	91	89	87	91	88	86	90	88	86	90	88	86	85

For lux multiply fc by 10.7

iW Blast Powercore 21° frosted lens 2700 K channel only

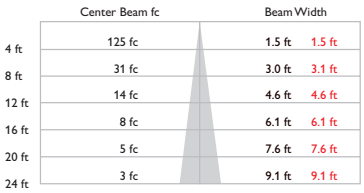
Lumens	502
Efficacy	21.6

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2003	2003	2003	2003	2003
5	1711	1713	1711	1710	1708
15	590	590	590	590	591
25	178	178	178	178	178
35	71	71	72	72	72
45	35	35	35	35	36
55	19	19	19	20	20
65	10	11	11	11	11
75	5	5	5	5	5
85	0	0	1	1	1
90	0	0	0	0	0

Illuminance at Distance



44.7 ft (13.6 m)
1 fc maximum distance

■ Vert. Spread: 21.6°
■ Horiz. Spread: 21.6°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	394	78.5
0- 40	440	87.6
0- 60	486	96.7
0- 90	502	100.0
90-180	0	0.0
0-180	502	100.0

Coefficients Of Utilization - Zonal Cavity Method

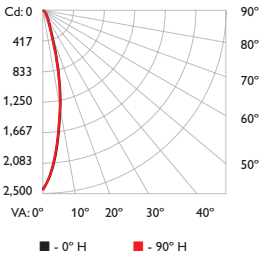
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	67	63	71	66	63	70	66	63	69	66	63	62

iW Blast Powercore 21° frosted lens 4000 K channel only

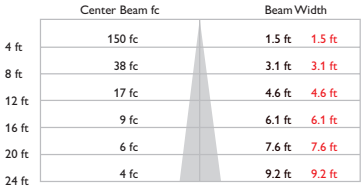
Lumens	608
Efficacy	27.1

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2407	2407	2407	2407	2407
5	2060	2060	2060	2058	2057
15	717	717	718	717	715
25	219	219	219	219	219
35	87	87	87	87	87
45	42	42	42	42	42
55	23	23	23	23	23
65	12	13	13	13	13
75	5	5	6	6	6
85	0	0	1	1	1
90	0	0	0	0	0

Illuminance at Distance



49 ft (14.9 m)
1 fc maximum distance

■ Vert. Spread: 21.6°
■ Horiz. Spread: 21.6°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	478	78.6
0- 40	534	87.8
0- 60	589	96.7
0- 90	608	100.0
90-180	0	0.0
0-180	608	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

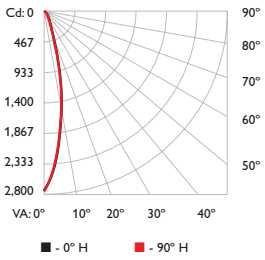
RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	78	83	79	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	77	73	70	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	67	63	71	66	63	70	66	63	69	66	63	62

For lux multiply fc by 10.7

iW Blast Powercore 21° frosted lens 6500 K channel only

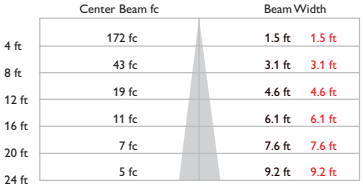
Lumens	700
Efficacy	31.4

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
90° 0	2755	2755	2755	2755	2755
5	2358	2357	2353	2352	2355
80° 15	821	822	820	820	822
25	253	252	253	252	253
35	101	101	101	101	101
70° 45	49	49	49	49	50
55	27	27	27	27	28
65	15	15	15	15	16
60° 75	6	6	7	7	7
85	1	1	1	1	1
50° 90	0	0	0	0	0

Illuminance at Distance



52.5 ft (16.0 m)
1 fc maximum distance

Vert. Spread: 21.6°
Horiz. Spread: 21.6°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	548	78.3
0- 40	613	87.6
0- 60	677	96.6
0- 90	700	100.0
90-180	0	0.0
0-180	700	100.0

Coefficients Of Utilization - Zonal Cavity Method

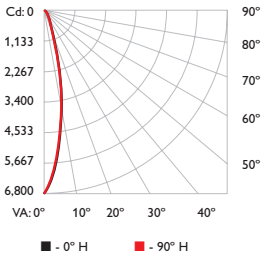
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	71	76	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	64
10	80	71	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

iW Blast Powercore 21° frosted lens All channels (full on)

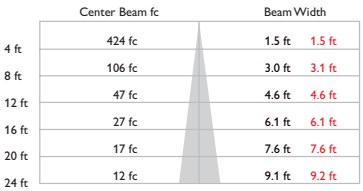
Lumens	1708
Efficacy	33.1

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
90° 0	6792	6792	6792	6792	6792
5	5800	5799	5799	5796	5803
80° 15	2005	2008	2010	2008	2010
25	612	612	613	612	613
35	243	244	244	244	244
70° 45	119	119	119	120	120
55	64	65	65	66	66
65	36	36	37	38	38
60° 75	14	14	16	17	17
85	2	2	2	2	2
50° 90	0	0	0	0	0

Illuminance at Distance



82.4 ft (25.1 m)
1 fc maximum distance

Vert. Spread: 21.6°
Horiz. Spread: 21.6°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1342	78.6
0- 40	1499	87.7
0- 60	1652	96.7
0- 90	1708	100.0
90-180	0	0.0
0-180	1708	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

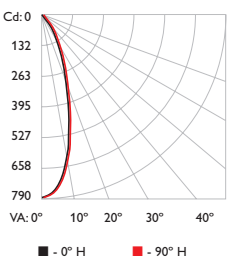
RC	80				70				50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	78	83	79	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	87	80	75	71	79	74	71	78	74	71	77	73	70	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	67	63	71	66	63	70	66	63	69	66	63	62

For lux multiply fc by 10.7

iW Blast Powercore 36° frosted lens 2700 K channel only

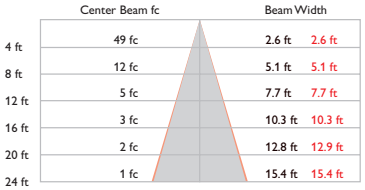
Lumens	434
Efficacy	19.1

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	789	789	789	789	789
5	750	751	750	749	750
15	480	480	480	480	480
25	218	218	218	218	219
35	92	92	92	92	93
45	43	43	43	43	43
55	22	23	23	23	23
65	12	12	12	12	12
75	5	5	5	5	6
85	1	1	0	1	1
90	0	0	0	0	0

Illuminance at Distance



28.1 ft (8.6 m)
1 fc maximum distance

Vert. Spread: 35.6°
Horiz. Spread: 35.7°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	301	69.5
0- 40	361	83.1
0- 60	415	95.7
0- 90	434	100.0
90-180	0	0.0
0-180	434	100.0

Coefficients Of Utilization - Zonal Cavity Method

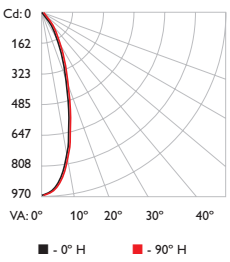
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	54	72	63	57	54	62	57	53	61	57	53	60	56	53	52

iW Blast Powercore 36° frosted lens 4000 K channel only

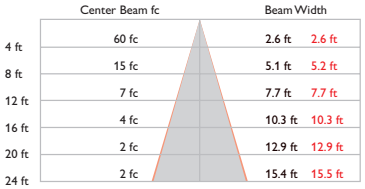
Lumens	529
Efficacy	23.9

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	962	962	962	962	962
5	915	915	915	914	914
15	586	586	587	587	587
25	266	266	266	267	268
35	111	111	111	111	112
45	52	52	52	52	52
55	27	27	27	28	28
65	14	15	15	15	15
75	6	6	7	7	7
85	1	1	1	1	1
90	0	0	0	0	0

Illuminance at Distance



31 ft (9.4 m)
1 fc maximum distance

Vert. Spread: 35.6°
Horiz. Spread: 35.7°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	368	69.6
0- 40	440	83.1
0- 60	506	95.6
0- 90	529	100.0
90-180	0	0.0
0-180	529	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

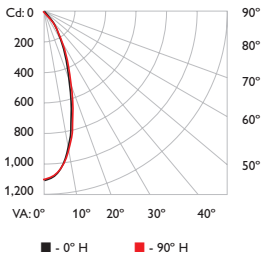
RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	54	72	63	57	54	62	57	53	61	57	53	60	56	53	52

For lux multiply fc by 10.7

iW Blast Powercore 36° frosted lens 6500 K channel only

Lumens	609
Efficacy	27.7

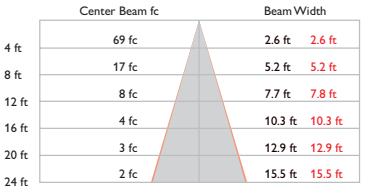
Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1101	1101	1101	1101	1101
5	1047	1047	1046	1045	1048
15	672	673	672	672	674
25	306	306	306	306	308
35	130	129	129	130	130
45	60	60	60	61	61
55	31	31	31	32	32
65	17	17	17	18	18
75	7	7	8	8	8
85	1	1	1	1	1
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



33.2 ft (10.1 m)
1 fc maximum distance

Vert. Spread: 35.7°
Horiz. Spread: 35.8°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	423	69.5
0- 40	506	83.1
0- 60	582	95.7
0- 90	609	100.0
90-180	0	0.0
0-180	609	100.0

Coefficients Of Utilization - Zonal Cavity Method

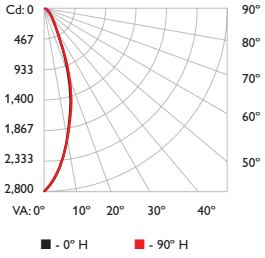
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52

iW Blast Powercore 36° frosted lens All channels (full on)

Lumens	1489
Efficacy	29.4

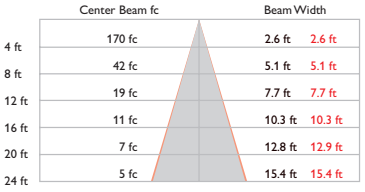
Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	2713	2713	2713	2713	2713
5	2580	2581	2578	2577	2578
15	1650	1650	1650	1651	1653
25	747	749	748	750	751
35	314	314	315	315	316
45	146	147	147	147	148
55	77	77	78	78	78
65	41	41	42	43	43
75	17	17	19	19	19
85	2	2	3	3	3
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



52 ft (15.8 m)
1 fc maximum distance

Vert. Spread: 35.5°
Horiz. Spread: 35.7°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	1036	69.6
0- 40	1238	83.1
0- 60	1424	95.6
0- 90	1489	100.0
90-180	0	0.0
0-180	1489	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

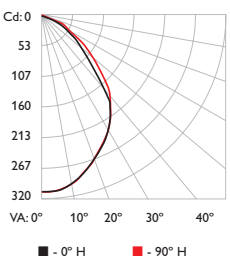
RC	80				70				50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	64	60	68	63	59	67	62	59	66	62	59	57
9	76	66	60	57	75	66	60	56	65	60	56	64	59	56	63	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	57	53	60	56	53	52

For lux multiply fc by 10.7

iW Blast Powercore 83° no optic 2700 K channel only

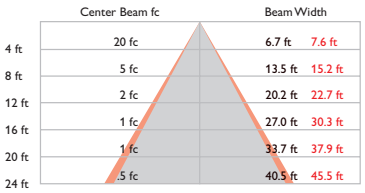
Lumens	547
Efficacy	24.3

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
90°	0	315	315	315	315	315
	5	311	312	311	311	311
80°	15	288	288	288	287	287
	25	251	251	250	249	250
	35	207	207	206	206	207
70°	45	108	123	154	150	145
	55	54	53	50	67	68
	65	15	20	21	28	28
60°	75	4	6	7	9	11
	85	2	2	2	2	3
50°	90	0	0	0	0	0

Illuminance at Distance



17.8 ft (5.4 m)
1 fc maximum distance

■ Vert. Spread: 80.3°
■ Horiz. Spread: 86.9°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	225	41.1
0- 40	354	64.6
0- 60	514	93.9
0- 90	547	100.0
90-180	0	0.0
0-180	547	100.0

Coefficients Of Utilization - Zonal Cavity Method

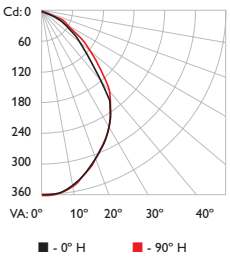
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

iW Blast Powercore 83° no optic 4000 K channel only

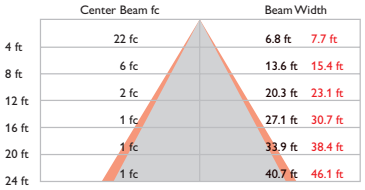
Lumens	631
Efficacy	29.1

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
90°	0	359	359	359	359	359
	5	355	356	356	355	356
80°	15	325	325	326	325	325
	25	284	283	283	283	282
	35	237	237	236	237	236
70°	45	129	142	182	179	168
	55	65	65	61	83	83
	65	18	22	21	28	27
60°	75	5	7	8	11	13
	85	3	3	2	2	3
50°	90	0	0	0	0	0

Illuminance at Distance



18.9 ft (5.8 m)
1 fc maximum distance

■ Vert. Spread: 80.5°
■ Horiz. Spread: 87.7°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	255	40.5
0- 40	403	63.9
0- 60	593	94.1
0- 90	631	100.0
90-180	0	0.0
0-180	631	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

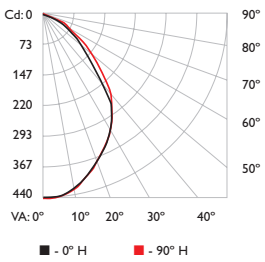
RC	80			70			50		30		10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	46	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34

For lux multiply fc by 10.7

iW Blast Powercore 83° no optic 6500 K channel only

Lumens	770
Efficacy	35.3

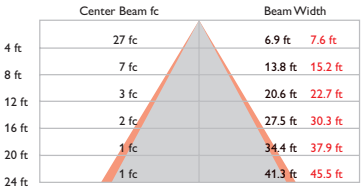
Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	434	434	434	434	434
5	430	432	431	430	430
15	395	397	397	396	395
25	350	350	349	349	351
35	291	290	291	289	290
45	150	172	217	208	198
55	80	80	79	103	103
65	23	28	27	34	34
75	6	8	10	14	18
85	3	3	3	2	5
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



20.8 ft (6.3 m)
1 fc maximum distance

Vert. Spread: 81.4°
Horiz. Spread: 86.9°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	313	40.6
0- 40	494	64.1
0- 60	723	94.0
0- 90	770	100.0
90-180	0	0.0
0-180	770	100.0

Coefficients Of Utilization - Zonal Cavity Method

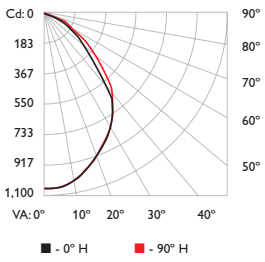
Effective Floor Cavity Reflectance: 20%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	46	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	41	36	47	40	36	46	40	36	45	39	36	34

iW Blast Powercore 83° no optic All channels (full on)

Lumens	1822
Efficacy	36.4

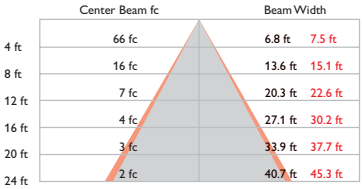
Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	1050	1050	1050	1050	1050
5	1042	1042	1041	1040	1042
15	957	958	959	955	955
25	837	837	834	834	836
35	693	693	692	691	693
45	361	410	514	501	475
55	177	175	169	223	225
65	52	65	63	82	83
75	15	18	24	32	39
85	8	7	6	5	9
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



32.4 ft (9.9 m)
1 fc maximum distance

Vert. Spread: 80.6°
Horiz. Spread: 86.6°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	752	41.3
0- 40	1182	64.9
0- 60	1715	94.1
0- 90	1822	100.0
90-180	0	0.0
0-180	1822	100.0

For lux multiply fc by 10.7

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

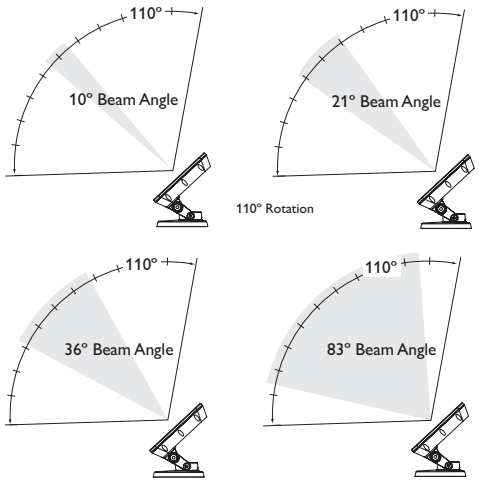
RC	80				70				50			30			10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

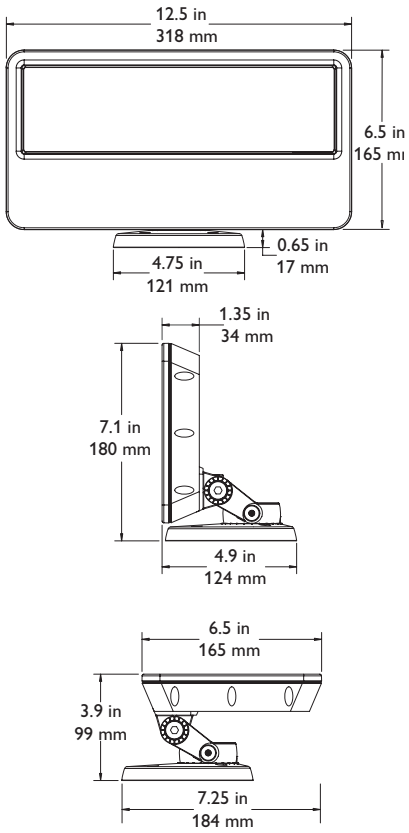
Specifications

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

Item	Beam Angle	2700 K*	4000 K*	6500 K*	All Channels
Lumens†	10° (clear lens)	552	641	771	1852
	21° (frosted lens)	502	608	700	1708
	36° (frosted lens)	434	529	609	1489
	83° (no optic)	547	631	770	1822
Efficacy (lm / W)	10° (clear lens)	24.1	29.4	35.5	36.7
	21° (frosted lens)	21.6	27.1	31.4	33.1
	36° (frosted lens)	19.1	23.9	27.7	29.4
	83° (no optic)	24.3	29.1	35.3	36.4
CRI	10° (clear lens)	83	83	71	81
	21° (frosted lens)	83	82	71	80
	36° (frosted lens)	82	83	72	81
	83° (no optic)	82	83	72	81

Item	Specification	Details
Output	Beam Angle	10° / 21° / 36° / 83°
	Color Temperature*	2700 K – 6500 K
	Lumen Maintenance‡	70,000 hours L_{70} @ 25° C 37,000 hours L_{70} @ 50° C 90,000 hours L_{50} @ 25° C 68,000 hours L_{50} @ 50° C
	Mixing Distance	6 in (152 mm) to uniform light
	LED Channels	2700 K / 4000 K / 6500 K
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz via Data Enabler Pro
	Power Consumption	50 W maximum at full output, steady state
	Power Factor	.99 @ 120 VAC
Control	Interface	Data Enabler Pro (DMX / Ethernet)
	Control System	Philips full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers
Physical	Dimensions *(Height x Width x Depth)*	7.1 x 12.5 x 4.9 in (172 x 317 x 125 mm)
	Weight	6.4 lbs (2.9 kg)
	Effective Projected Area (EPA)	0.05211 m^2
	Housing	Die-cast aluminium, black or white powder-coated finish.
	Lens	Clear tempered glass (10° and 83° beam angles) Frosted tempered glass (21° and 36° beam angles)
	Fixture Connections	6 ft (1.8 m) unified power / data cable
	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 A, CE, PSE
	Environment	Dry / Damp / Wet Location, IP66





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

† 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/ for more information.

CHROMACORE® CK TECHNOLOGY | OPTIBIN® CK TECHNOLOGY | POWERCORE® CK TECHNOLOGY

Included in the box

iW Blast Powercore fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
1/8 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

Fixtures and Data Enabler Pro

iW Blast Powercore fixtures are part of a complete line-voltage system which includes fixtures and:

- One or more Data Enabler Pro devices.
- 4-conductor copper wire to connect iW Blast Powercore fixtures in series or in parallel. Standard 12 AWG (2.05 mm) stranded wire is recommended.
- Any Philips controller, including Light System Manager, iPlayer 3, and ColorDial Pro, or a third-party controller.

Item	Type	Housing Color	Item Number	Philips 12NC
iW Blast Powercore UL / cUL / CE	10° (clear lens)	White	523-000071-00	910503702333
		Black	523-000071-01	910503702356
	21° (frosted lens)	White	523-000071-02	910503702357
		Black	523-000071-03	910503702358
	36° (frosted lens)	White	523-000071-04	910503702359
		Black	523-000071-05	910503702360
	83° (no optic)	White	523-000071-06	910503702361
		Black	523-000071-07	910503702362
iW Blast Powercore CQC	10° (clear lens)	White	523-000071-08	910503702438
		Black	523-000071-09	910503702439
	21° (frosted lens)	White	523-000071-10	910503702440
		Black	523-000071-11	910503702441
	36° (frosted lens)	White	523-000071-12	910503702831
		Black	523-000071-13	910503702832
	83° (no optic)	White	523-000071-14	910503702833
		Black	523-000071-15	910503702834
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.

Accessories

Designed specifically for the family of Blast fixtures, accessories provide additional options for controlling and dispersing light. Accessory holders snap to the front of the fixture and are required for mounting accessories. Accessory holders prevent accessories from falling out if the fixture is tipped or hung upside down.

Item	Housing Color	Item Number	Philips 12NC
Accessory Holders	White	120-000070-00	910503702864
	Black	120-000070-01	910503702863
Top Hats	White	120-000005-03	910503702847
	Black	120-000005-04	910503702848
Half Top Hats	White	120-000009-03	910503702843
	Black	120-000009-04	910503702844
Egg Crate Louvers	White	120-000015-03	910503702851
	Black	120-000015-04	910503702852
Barndoors	White	120-000019-03	910503702855
	Black	120-000019-04	910503702856
Horizontal Glass Spread Lens*	36° (ribs out) / 50° (ribs in)	120-000025-00	910503703897
Horizontal / Vertical Glass Spread Lens*	40°	120-000025-01	910503703898

* Intended for use with Blast fixtures with 10° clear lens

Use Item Number when ordering in North America.

Installation

iW Blast Powercore offers dimmable, high-intensity white LED illumination with variable color temperature for wall-washing and grazing, enhancing architectural detail, theatrical stage lighting, and studio lighting, both indoors and outdoors.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate iW Blast 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 iW Blast Powercore Installation Instructions for specific warning and caution statements.

Installing in Damp or Wet Locations

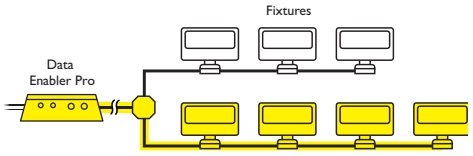
When installing in damp or wet locations, it is good practice to seal all fixtures and junction boxes with electronics-grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. You must use suitable outdoor-rated junction boxes when installing in damp or wet locations. Additionally, you must use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes

Prepare for the Installation

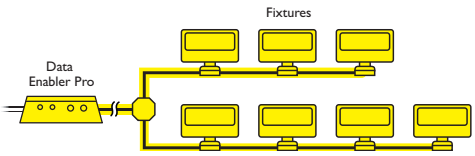
1. Refer to the lighting design plan, architectural diagram, or other diagram that shows the physical layout of the installation to identify the locations of all switches, controllers, Data Enabler Pro devices, fixtures, and cables.

   iW Blast Powercore fixtures can be installed in series or in parallel (wired to a common junction box). The maximum number of fixtures each Data Enabler Pro can support depends on specific configuration details such as fixture spacing, circuit size, line voltage, and method of connection (in series or in parallel), For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.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 length should not exceed 175 feet (53.3 m), and the total cable length per Data Enabler Pro should not exceed 400 feet (122 m).



Data Integrity — maximum individual length 175 ft (53.3 m)

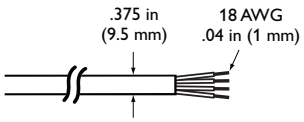


Data Integrity — total length 400 ft (122 m)

3. Install all Data Enabler Pro devices, including any interfaces with controllers. Data Enabler Pro and external controllers send power and control signals to fixtures over the single leader cable.

   For installations in which you want to manually adjust the brightness and color temperature of all connected iW Blast Powercore fixtures in unison, use ColorDial Pro, or iColor Keypad, or iColor Player. For installations in which you want to dynamically control the brightness and color temperature of individual fixtures, use a controller such as iPlayer 3 or Light System Manager. Refer to "Address and Configure the Fixtures" below for details.

Fixture cable dimensions



Included in the box

iW Blast Powercore fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
1/8 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

4. Verify that all additional supporting equipment (switches, controllers) is in place.
5. Ensure that all additional parts and tools are available, including:
   - The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
   - The included 1/8 hex key wrench
   - The included junction box gasket
   - In the U.S., one 4 in (102 mm) round U.S. electrical junction box per fixture, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture's base. (Refer to the junction box manufacturer's literature for additional items required for mounting or sealing.)
   - A sufficient length of 12 AWG (2.05 mm), 4-conductor stranded copper wire
   - Conduit as required
   - Electronics-grade room temperature vulcanizing (RTV) silicone sealant

Install the Fixtures

iW Blast Powercore fixtures can be installed in series or in parallel (wired to a common junction box). Each fixture requires a dedicated junction box for mounting. Ensure that all junction boxes are suitable for the environment and sealed, if necessary, and that all wiring between junction boxes complies with local codes

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

1. Unpack iW Blast Powercore fixtures. Carefully inspect the box containing and its contents for any damage that may have occurred in transit.
2. Each iW Blast Powercore fixture comes pre-programmed with a unique serial number. If you plan to control fixtures independently, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.
3. Assign each fixture to a position in the lighting design plan.
4. 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 light fixture's housing.
5. Mount junction boxes in accordance with the lighting design plan. Each fixture is designed for mounting in a 4 in (102 mm) round US electrical junction box, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture's base.
6. If installing fixtures in a series, pull 4-conductor copper wire between each junction box in the series.

   If installing fixtures in parallel, pull 4-conductor copper wire from a common junction box to each fixture's junction box.

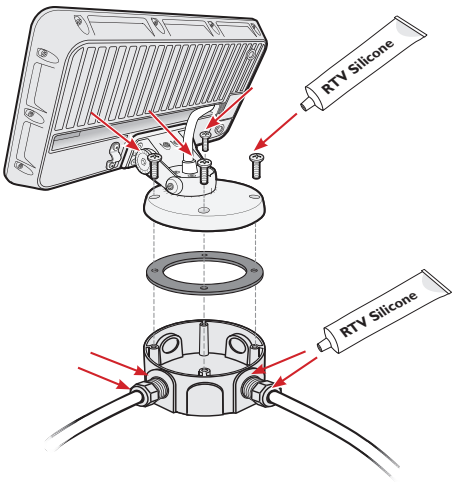
   The maximum cable run from a Data Enabler Pro to any individual iW Blast Powercore fixture is 175 feet (53 m). When installing in parallel, the total cable length cannot exceed 400 feet (122 m).

When installing iW Blast Powercore fixtures, the input earth ground, canopy earth ground, and fixture cable earth ground must all be connected together.

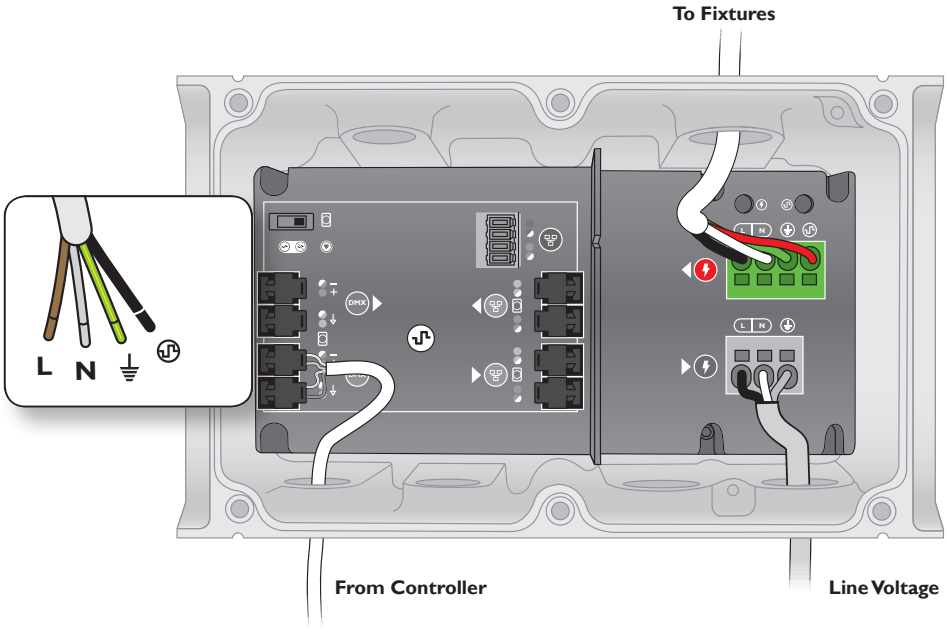
In locations where U.S. junction boxes are not available, you can mount fixtures directly to a wall or other mounting surface. For help with your specific installation, consult your local support organization, or contact Application Engineering Services at support@colorkinetics.com.

Wiring between junction boxes must comply with local codes.

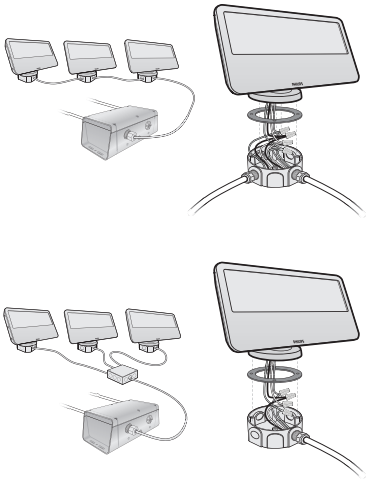
7. Trim the cable from the fixture to fit in the junction box, leaving enough cable to make wiring connections.
8. Insert the fixture cable through the provided junction box gasket before making wire connections. When attaching the fixture to the junction box, ensure that the gasket is compressed evenly.
9. Use wire nuts to connect line, neutral, ground, and data. If installing in series, connect the leader cable from each fixture to the fixture's junction box. If installing in parallel, connect the leader cable from each fixture to the lead wire from the Data Enabler Pro in the common junction box.
10. Tuck wire connections into the junction box, and use the provided screws to attach the fixture to the junction box.
11. If installing in a wet or damp location, seal all junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.

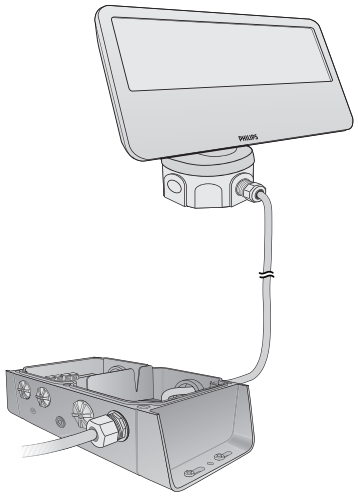


12. Run the wiring from the first junction box in the series to the Data Enabler Pro, or, if installing in parallel, run the wiring from the common junction box to the Data Enabler Pro. Secure connections within the Data Enabler Pro housing.
13. Secure the Data Enabler Pro cover. If installing in a wet or damp location, seal the Data Enabler Pro with electronics-grade RTV silicone sealant.



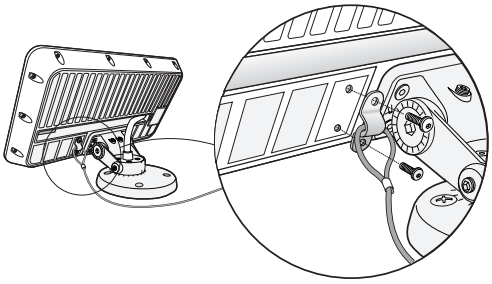
Install fixtures in series or in parallel





Refer to the Data Enabler Pro Product Guide for comprehensive installation and configuration instructions. You can view or download the guide from www.philipscolorkinetics.com/ls/pds/dataenablerpro

Safety cable bracket location on fixture



Safety cable minimum requirements

Material	316 Stainless Steel
Size	5/64 to 3/16 in (2.0 to 4.8 mm) nominal diameter. Minimum break load must be greater than 400 lbs (181 kg)
Construction	7 x 7 (49 wires) preformed stranded

Attach Safety Cable (Optional)

iW Blast Powercore is designed for use with a safety cable to tether the fixture to a secure anchor point. When dictated by local or state code or advised by a structural engineer, attach a safety cable to the bracket located on the back of the fixture. Remove the two screws that attach the cable bracket, loop the safety cable over the cable bracket, and reattach to the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.

Controlling iW Blast Powercore Fixtures

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

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 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 Blast Powercore fixtures.

iW Blast Powercore has three LED channels, warm, neutral, and cool. By default, iW Blast 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 Blast 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 Blast Powercore fixtures 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, you must address and configure iW Blast Powercore fixtures as you would any color-changing (RGB) fixture.

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

Addressing and Configuring iW Blast Powercore Fixtures

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

You address and configure iW Blast Powercore fixtures using QuickPlay Pro addressing and configuration software. Fixtures 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 fixtures during installation planning.

- In Ethernet installations, you can address and configure your fixtures using QuickPlay Pro with a computer connected to your lighting installation's network. QuickPlay Pro can automatically discover all of your fixtures, controllers, and Data Enabler Pro devices for quick configuration.

You can download QuickPlay Pro from www.philipscolorkinetics.com/support/addressing/

- In DMX installations, you can address and configure your fixtures using QuickPlay Pro with iPlayer 3 or SmartJack Pro. You can manually enter fixture serial numbers, or you can import a spreadsheet listing each fixture's serial number and starting DMX address.

Addressing iW Blast Powercore Fixtures

iW Blast 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, fixtures use one DMX address per LED channel. In 16-bit mode, fixtures 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 fixture resolution from 256 dimming steps to 65,536 (256 x 256) dimming steps.

You can address and configure iW Blast Powercore fixtures 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 Blast Powercore fixture uses three DMX sequential addresses (or a multiple of three addresses), as in three-channel mode.

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

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

DMX Channel Assignments: 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: 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

Setting Fixture Dimming Curve

Dimming curves describe how slowly or quickly a fixture dims at different levels of input. For finer control, ColorBlast Powercore offers three different dimming curves for use in different situations and applications:

- **Normal**
  The non-linear (gamma) dimming curve used in most Philips Color Kinetics LED lighting fixtures. ColorBlast Powercore fixtures use the normal dimming curve by default.

LED Channels

Channel Mode	RGB	iW Blast Powercore
Three-Channel Mode	Red	2700 K (Warm)
	Green	4000 K (Neutral)
	Blue	6500 K (Cool)
Two-Channel Mode	Red	Warm
	Green	Cool
	Blue	Unused

- **Linear**
  A dimming curve with a linear relationship between power input and DMX output.
- **Tungsten**
  A non-linear dimming curve that emulates the dimming curve of incandescent lamps on a DMX dimmer. This curve offers the most control at low intensities.

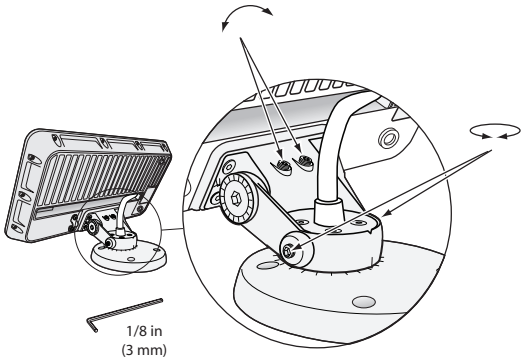
Setting LED Transition Speed

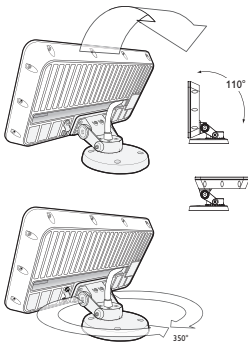
Normally, LEDs react to DMX or other control data instantaneously. In some cases, you may want to slow down the reaction speed to achieve smoother transitions when the intensity of different LED channels changes. ColorBlast Powercore offers five levels of decreasing LED transition speed, from Fast (instant snap changes) to Delay-4 (slowest transition speed).

Aim and Lock the Fixtures

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

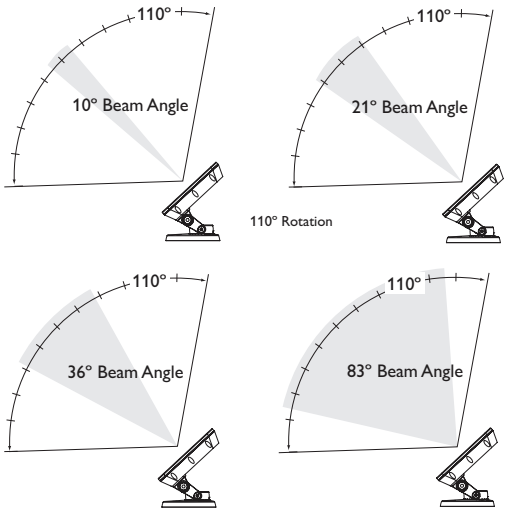
Use the provided 1/8" hex key wrench, loosen the rotation and tilting set screws. Aim the fixture by rotating the base and tilting the beam as desired. Tighten the two pairs of set screws to lock the fixture in place.





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

For exterior applications with direct exposure to water, Blast Powercore fixtures should not be aimed directly upwards, as water may pool on the lens and affect beam quality. Instead, the fixture should be angled to allow for proper water drainage.



Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.385.5742
Tel 617.423.9999
Fax 617.423.9998
www.philipscolorkinetics.com

DAS-000023-00 R06 08-12