ColorBurst Powercore

Architectural and landscape LED spotlight with intelligent color light

PHILIPS

COLOR KINETICS

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ColorBurst Powercore is a high-output, exterior-rated LED lighting luminaire designed for accent and site lighting. Standard format Architectural and Landscape luminaires deliver full-color light output of up to 647 lumens to support a range of dynamic uplighting, floodlighting, and decorative lighting applications.

- Integrates patented Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to luminaires directly from line voltage. The Philips Color Kinetics Data Enabler Pro merges line voltage and control data and delivers them to the luminaire over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Flexible mounting options in architectural applications — ColorBurst Powercore Architectural luminaires feature an integrated yoke with canopy base for mounting to standard US junction boxes or directly to a flat surface or substrate as local codes permit.
- Support for a wide range of landscape applications — ColorBurst Powercore Landscape luminaires feature a 1/2 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories for use in softscape and hardscape applications.
- Outdoor rated — With a rugged, die-cast aluminium housing fully sealed for maximum luminaire life and IP66-rated for outdoor applications, ColorBurst Powercore is ideal for use in damp or wet locations.
- Exchangeable optics and accessories — Available 14°, 23°, 41°, and asymmetric 10° x 41° spread lenses project a soft-edge beam to support a wide range of lighting applications. Native 8° beam angle offers extended light projection.
- Versatile light positioning — ColorBurst Powercore luminaires can tilt through a full 180°. ColorBurst Powercore Architectural luminaires can also rotate through a full 360° for precise aiming. Locking nuts accept standard hex wrenches to secure luminaires firmly in position.
- Universal power input range — ColorBurst Powercore accepts a universal power input range of 100 to 240 VAC, allowing long luminaire runs and consistent installation in any location around the world.
- Industry-leading controls — ColorBurst Powercore works seamlessly with the complete line of Philips Color Kinetics controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.

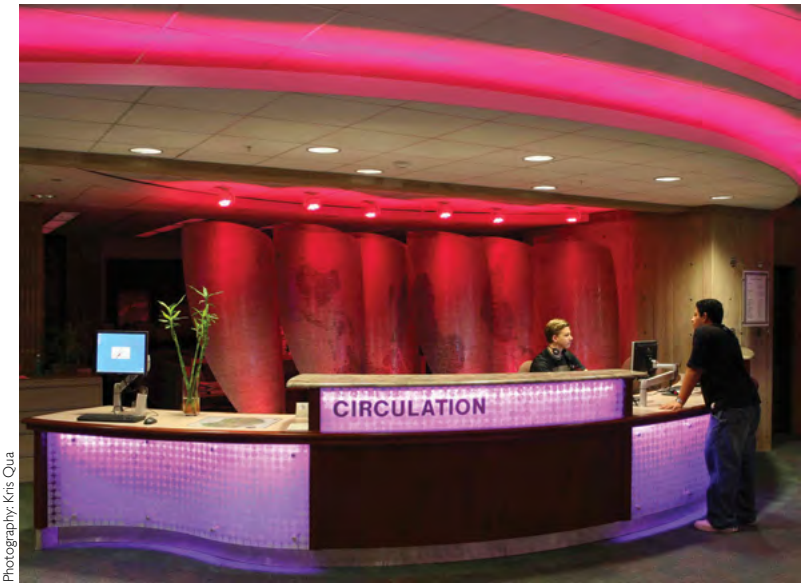
Two Versions, Two Sizes
ColorBurst Powercore Architectural and Landscape luminaires are available in standard and compact sizes for all accent and site lighting needs.

Dynamic and Inviting Interiors with ColorBurst Powercore

Although ColorBurst Powercore is designed with a fully-sealed die-cast aluminium housing for use in exterior and wet locations, its small footprint, focused beam, and ease of installation make it the perfect choice for indoor spotlighting and accent lighting as well.

Spotlight on the Folsom Library

The Richard G. Folsom Library on the Troy, New York, campus of Rensselaer Polytechnic Institute (RPI) had not been renovated since its opening in 1976. RPI recognized the need for a refurbishment that would make its main library more user-friendly and inspire and attract students, researchers, and others.



Photography: Kris Qua

The lighting designer drafted a creative plan with an emphasis on color-changing accent lighting and spotlighting. To make the library more open and inviting, light show colors were designed to dynamically interact with the changing climate of upstate New York, displaying warm colors during the cold winter months, cool colors in the summer, greens in the spring, and orange colors in the fall.

The library uses a variety of Philips color-changing LED lighting luminaires throughout — to lend color to computer hubs and work areas, for example. ColorBurst luminaires are used to accentuate an inverted world map, specially designed for the renovation, which provides a dramatic backdrop for the library's circulation desk.

A single Philips DMX controller gives library staff complete control over all of the lighting luminaires and light shows, both static and dynamic, throughout the library. In addition to providing an inviting atmosphere year-round, Philips LED lighting benefits the library through low energy consumption and minimal maintenance costs as compared with the traditional lighting sources formerly in place.

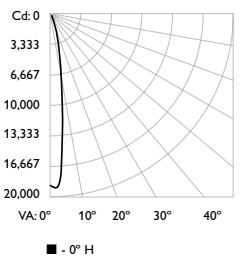
Photometrics

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

ColorBurst Powercore 8° primary optic

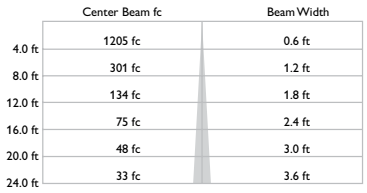
LED	Lumens	Efficacy
RGB	647	24.6

Polar Candela Distribution



90°	0	19284	19284	19284	19284	19284
	5	7789	7760	7673	7474	7341
80°	15	168	163	161	169	176
	25	76	64	75	76	76
70°	35	35	33	32	33	33
	45	15	19	19	20	24
60°	55	4	4	5	4	3
	65	1	1	1	0	0
	75	0	0	0	0	0
50°	85	0	0	0	0	0
	90	0	0	0	0	0

Illuminance at Distance



139 ft (42.4 m) ■ Beam Spread: 8.6°
1 fc maximum distance

Zonal Lumen

Zone	Lumens	% Lamp
0-30	606.8	93.9%
0-40	628.6	97.2%
0-60	646.1	99.9%
60-90	0.4	0.1%
0-90	646.5	100%
90-180	0	0%
0-180	646.5	100%

Coefficients Of Utilization - Zonal Cavity Method

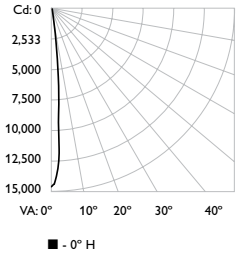
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.16	1.14	1.13	1.11	1.14	1.12	1.11	.99	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.01	1.00	.99
2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	.97	1.06	1.04	1.03	1.03	1.02	1.00	1.00	.99	.98	.97
3	1.11	1.07	1.04	1.02	1.09	1.06	1.03	.96	1.03	1.01	1.00	1.01	1.00	.98	.99	.98	.97	.96
4	1.08	1.04	1.01	.99	1.07	1.03	1.01	.95	1.02	.99	.97	1.00	.98	.96	.98	.97	.95	.94
5	1.07	1.02	.99	.97	1.05	1.01	.98	.94	1.00	.97	.96	.98	.96	.95	.97	.95	.94	.93
6	1.05	1.00	.97	.95	1.04	1.00	.97	.93	.98	.96	.94	.97	.95	.94	.96	.94	.93	.92
7	1.03	.99	.96	.93	1.02	.98	.95	.92	.97	.95	.93	.96	.94	.92	.95	.93	.92	.91
8	1.02	.97	.94	.92	1.01	.97	.94	.91	.96	.93	.92	.95	.93	.91	.94	.92	.91	.90
9	1.00	.96	.93	.91	1.00	.95	.93	.90	.95	.92	.91	.94	.92	.90	.94	.92	.90	.90
10	.99	.95	.92	.90	.99	.94	.92	.89	.94	.91	.90	.93	.91	.90	.93	.91	.89	.89

ColorBurst Compact Powercore 8° primary optic

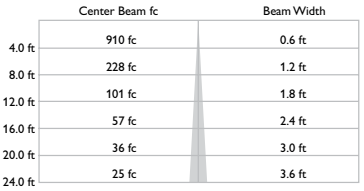
LED	Lumens	Efficacy
RGB	498	24.4

Polar Candela Distribution



90°	0	14566
	5	5643
80°	15	131
	25	55
70°	35	25
	45	18
60°	55	5
	65	2
	75	1
50°	85	0
	90	0

Illuminance at Distance



120.5 ft (36.7 m) ■ Beam Spread: 8.7°
1 fc maximum distance

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	461	92.4
0- 40	477	95.8
0- 60	494	99.2
0- 90	498	100.0
90-180	0	0.0
0-180	498	100.0

Coefficients Of Utilization - Zonal Cavity Method

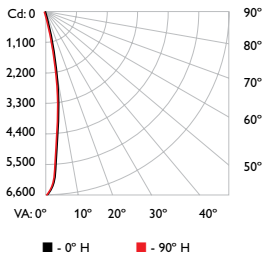
Effective Floor Cavity Reflectance: 20%

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

ColorBurst Powercore 14° spread lens

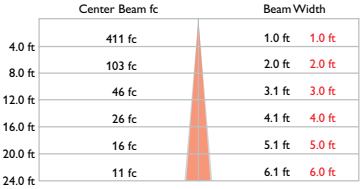
LED	Lumens	Efficacy
RGB	571	21.7

Polar Candela Distribution



0	6574	6574	6574	6574	6574
5	4857	4822	4761	4714	4652
15	475	461	429	408	397
25	82	80	79	79	79
35	37	36	35	36	36
45	16	16	16	16	17
55	6	6	6	6	5
65	1	1	1	1	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



81 ft (24.7 m)
1 fc maximum distance

Vert. Spread: 14.5°
Horiz. Spread: 14.1°

Zonal Lumen

Zone	Lumens	% Lamp
0-30	531.0	93%
0-40	553.7	96.9%
0-60	570.5	99.9%
60-90	0.6	0.1%
0-90	571.2	100%
90-180	0	0%
0-180	571.2	100%

Coefficients Of Utilization - Zonal Cavity Method

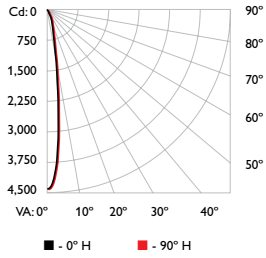
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.11	1.09	1.07	1.11	1.09	1.07	.95	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2	1.09	1.04	1.01	.97	1.07	1.03	.99	.89	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3	1.04	.98	.93	.90	1.02	.97	.92	.84	.94	.91	.88	.92	.89	.86	.89	.87	.85	.83
4	.99	.92	.87	.83	.98	.91	.87	.80	.89	.85	.82	.87	.84	.81	.85	.82	.80	.79
5	.95	.87	.82	.78	.93	.86	.81	.75	.85	.80	.77	.83	.79	.76	.82	.78	.76	.74
6	.91	.83	.77	.73	.89	.82	.77	.71	.81	.76	.73	.79	.75	.72	.78	.74	.72	.70
7	.87	.79	.73	.69	.86	.78	.73	.68	.77	.72	.69	.76	.71	.68	.74	.71	.68	.67
8	.83	.75	.69	.66	.82	.74	.69	.65	.73	.69	.65	.72	.68	.65	.71	.68	.65	.63
9	.80	.71	.66	.62	.79	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.65	.62	.61
10	.77	.68	.63	.60	.76	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.58

ColorBurst Compact Powercore 14° spread lens

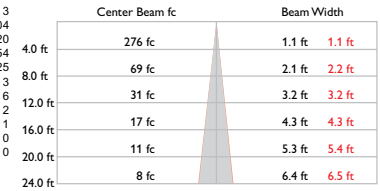
LED	Lumens	Efficacy
RGB	429	21.0

Polar Candela Distribution



0	4413	4413	4413	4413	4413
5	3371	3365	3309	3240	3204
15	388	390	370	340	320
25	60	60	59	58	54
35	26	27	27	25	25
45	12	12	13	12	13
55	4	4	5	5	6
65	1	1	1	2	2
75	0	0	0	0	1
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



66.5 ft (20.3 m)
1 fc maximum distance

Vert. Spread: 15.2°
Horiz. Spread: 15.3°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	397	92.4
0- 40	413	96.3
0- 60	427	99.6
0- 90	429	100.0
90-180	0	0.0
0-180	429	100.0

Coefficients Of Utilization - Zonal Cavity Method

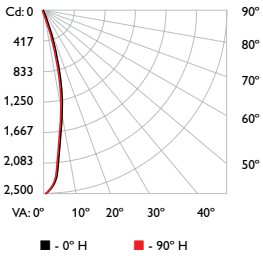
Effective Floor Cavity Reflectance: 20%

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	102	102	102	100
1	115	113	111	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93
4	106	101	98	95	105	100	97	95	98	96	94	97	94	92	95	93	92	90
5	103	98	95	92	102	98	94	92	96	93	91	95	92	90	93	91	89	88
6	101	96	92	90	100	95	92	89	94	91	89	93	90	88	92	89	88	87
7	99	93	90	87	98	93	90	87	92	89	87	91	88	86	90	88	86	85
8	97	91	88	85	96	91	88	85	90	87	85	89	87	85	89	86	84	84
9	95	90	86	84	94	89	86	84	88	86	83	88	85	83	87	85	83	82
10	94	88	85	82	93	88	84	82	87	84	82	86	84	82	86	83	82	81

ColorBurst Powercore 23° spread lens

LED	Lumens	Efficacy
RGB	558	21.2

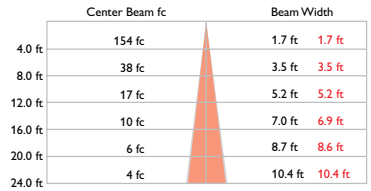
Polar Candela Distribution



0	2456	2456	2456	2456	2456
5	2176	2172	2175	2184	2192
15	868	866	863	859	858
25	174	172	169	164	161
35	43	43	42	42	42
45	19	19	19	19	18
55	8	9	9	8	7
65	3	3	3	2	1
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



49.5 ft (15.1 m)
1 fc maximum distance

Vert. Spread: 24.5°
Horiz. Spread: 24.3°

Zonal Lumen

Zone	Lumens	% Lamp
0-30	508.3	91.1%
0-40	535.7	96%
0-60	556.3	99.7%
60-90	1.8	0.3%
0-90	558.1	100%
90-180	0	0%
0-180	558.1	100%

Coefficients Of Utilization - Zonal Cavity Method

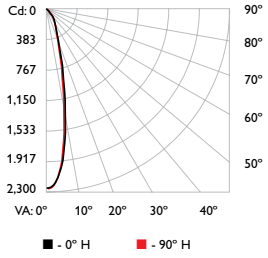
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.13	1.11	1.09	1.12	1.10	1.09	.97	1.07	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2	1.11	1.07	1.04	1.01	1.09	1.05	1.03	.93	1.02	1.00	.98	.99	.98	.96	.97	.95	.94	.92
3	1.07	1.02	.98	.95	1.05	1.01	.97	.90	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4	1.03	.98	.94	.90	1.02	.97	.93	.87	.95	.91	.89	.93	.90	.88	.91	.89	.87	.86
5	1.00	.94	.90	.86	.99	.93	.89	.84	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
6	.97	.90	.86	.83	.96	.90	.86	.81	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80
7	.94	.87	.83	.80	.93	.87	.83	.78	.86	.82	.79	.85	.81	.79	.84	.81	.79	.77
8	.91	.84	.80	.77	.90	.84	.80	.76	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9	.89	.82	.78	.75	.88	.81	.77	.74	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
10	.86	.79	.75	.72	.86	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.72	.71

ColorBurst Compact Powercore 23° spread lens

LED	Lumens	Efficacy
RGB	418	20.5

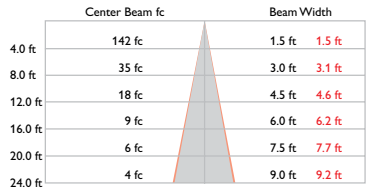
Polar Candela Distribution



0	2265	2265	2265	2265	2265
5	1964	1972	1969	1957	1951
15	564	586	612	609	602
25	83	89	99	100	98
35	26	29	30	29	29
45	11	13	14	14	14
55	4	5	6	7	8
65	1	1	2	3	4
75	0	0	0	1	1
85	0	0	0	0	0
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



47.5 ft (14.5 m)
1 fc maximum distance

Vert. Spread: 21.3°
Horiz. Spread: 21.8°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	381	91.1
0- 40	400	95.6
0- 60	416	99.4
0- 90	418	100.0
90-180	0	0.0
0-180	418	100.0

Coefficients Of Utilization - Zonal Cavity Method

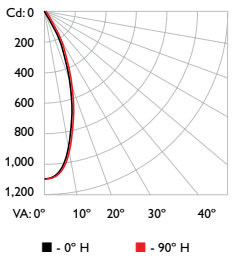
Effective Floor Cavity Reflectance: 20%

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	115	112	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93
3	107	102	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79
8	92	86	82	79	91	85	81	79	84	81	78	84	80	78	83	80	78	77
9	90	83	79	77	89	83	79	77	82	79	76	82	78	76	81	78	76	75
10	88	81	77	75	87	81	77	74	80	77	74	80	76	74	79	76	74	73

ColorBurst Powercore 41° spread lens

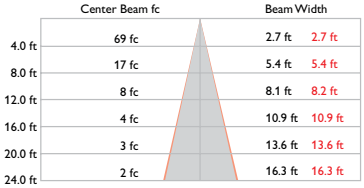
LED	Lumens	Efficacy
RGB	552	20.9

Polar Candela Distribution



0	1109	1109	1109	1109	1109
5	1058	1055	1055	1057	1057
15	710	708	709	712	713
25	321	321	322	324	326
35	105	105	107	108	108
45	33	33	35	35	34
55	14	14	15	15	13
65	7	7	6	5	4
75	2	1	1	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



33.3 ft (10.1 m)
1 fc maximum distance

Vert. Spread: 14.5°
Horiz. Spread: 14.1°

Zonal Lumen

Zone	Lumens	% Lamp
0-30	440.8	79.9%
0-40	509.7	92.4%
0-60	546.8	99.1%
60-90	4.7	0.9%
0-90	551.5	100%
90-180	0	0%
0-180	551.5	100%

Coefficients Of Utilization - Zonal Cavity Method

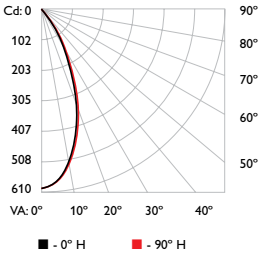
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.11	1.09	1.07	1.11	1.09	1.07	.95	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2	1.09	1.04	1.01	.97	1.07	1.03	.99	.89	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3	1.04	.98	.93	.90	1.02	.97	.92	.84	.94	.91	.88	.92	.89	.86	.89	.87	.85	.83
4	.99	.92	.87	.83	.98	.91	.87	.80	.89	.85	.82	.87	.84	.81	.85	.82	.80	.79
5	.95	.87	.82	.78	.93	.86	.81	.75	.85	.80	.77	.83	.79	.76	.82	.78	.76	.74
6	.91	.83	.77	.73	.89	.82	.77	.71	.81	.76	.73	.79	.75	.72	.78	.74	.72	.70
7	.87	.79	.73	.69	.86	.78	.73	.68	.77	.72	.69	.76	.71	.68	.74	.71	.68	.67
8	.83	.75	.69	.66	.82	.74	.69	.65	.73	.69	.65	.72	.68	.65	.71	.68	.65	.63
9	.80	.71	.66	.62	.79	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.65	.62	.61
10	.77	.68	.63	.60	.76	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.58

ColorBurst Compact Powercore 41° spread lens

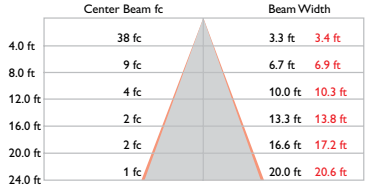
LED	Lumens	Efficacy
RGB	405	19.9

Polar Candela Distribution



0	601	601	601	601	601
5	577	579	581	582	582
15	436	443	453	453	450
25	256	262	268	261	252
35	109	110	110	100	91
45	30	33	32	29	26
55	9	10	11	12	12
65	3	3	5	5	6
75	0	0	1	2	2
85	0	0	0	1	1
90	0	0	0	0	0

Illuminance at Distance



24.5 ft (7.5 m)
1 fc maximum distance

Vert. Spread: 45.2°
Horiz. Spread: 46.5°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	296	73.2
0- 40	364	89.7
0- 60	399	98.5
0- 90	405	100.0
90-180	0	0.0
0-180	405	100.0

Coefficients Of Utilization - Zonal Cavity Method

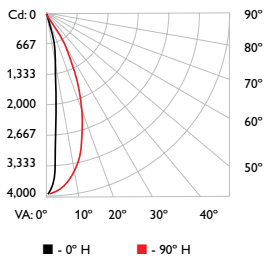
Effective Floor Cavity Reflectance: 20%

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	108	106	111	108	106	104	103	101		101	99	98	97	96	95	93
2	108	103	99	96	105	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	87	92	88	85	90	86	84	87	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	75	91	83	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	55	72	63	58	54	63	58	54	62	57	54	61	57	54	53

ColorBurst Powercore 10° x 41° spread lens

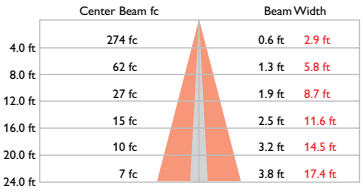
LED	Lumens	Efficacy
RGB	584	22.2

Polar Candela Distribution



90°	0	3958	3958	3958	3958	3958
80°	5	1705	1882	2487	3423	3837
	15	104	112	182	1024	2784
70°	25	50	56	71	151	1190
	35	23	27	36	53	304
60°	45	9	14	18	26	71
	55	3	4	9	12	24
	65	0	1	3	4	8
50°	75	0	0	0	0	0
	85	0	0	0	0	0
	90	0	0	0	0	0

Illuminance at Distance



63 ft (19.2 m)
1 fc maximum distance

Vert. Spread: 9.0°
Horiz. Spread: 39.8°

Zonal Lumen

Zone	Lumens	% Lamp
0-30	507.5	87%
0-40	553.6	94.9%
0-60	580.8	99.6%
60-90	2.6	0.4%
0-90	583.4	100%
90-180	0	0%
0-180	583.4	100%

Coefficients Of Utilization - Zonal Cavity Method

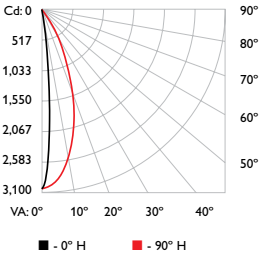
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.10	1.09	1.12	1.10	1.08	.96	1.06	1.05	1.04	1.03	1.01	1.00	.99	.98	.98	.96
2	1.10	1.06	1.03	1.01	1.08	1.05	1.02	.92	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3	1.06	1.01	.97	.94	1.05	1.00	.96	.89	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4	1.03	.97	.92	.89	1.01	.96	.92	.85	.94	.90	.88	.92	.89	.87	.90	.88	.86	.84
5	.99	.93	.88	.85	.98	.92	.88	.82	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6	.96	.89	.84	.81	.95	.88	.84	.79	.87	.83	.80	.86	.82	.80	.85	.82	.79	.78
7	.93	.86	.81	.78	.92	.85	.81	.76	.84	.80	.77	.83	.80	.77	.82	.79	.77	.76
8	.90	.83	.78	.75	.89	.82	.78	.74	.81	.77	.75	.80	.77	.74	.80	.76	.74	.73
9	.87	.80	.76	.73	.86	.80	.75	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10	.85	.78	.73	.70	.84	.77	.73	.70	.76	.73	.70	.76	.72	.70	.75	.72	.70	.69

ColorBurst Compact Powercore 10° x 41° spread lens

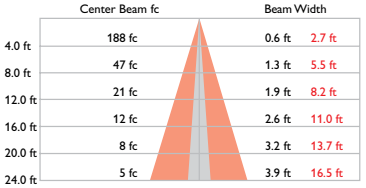
LED	Lumens	Efficacy
RGB	432	21.3

Polar Candela Distribution



90°	0	3003	3003	3003	3003	3003
	5	1251	1815	2908	2033	1396
80°	15	80	151	2019	145	78
	25	37	51	788	52	36
70°	35	17	26	187	26	18
	45	7	12	42	14	12
	55	2	5	15	8	4
60°	65	1	1	6	4	2
	75	0	0	1	1	1
	85	0	0	0	0	0
50°	90	0	0	0	0	0

Illuminance at Distance



54.7 ft (16.7 m)
1 fc maximum distance

Vert. Spread: 9.2°
Horiz. Spread: 37.9°

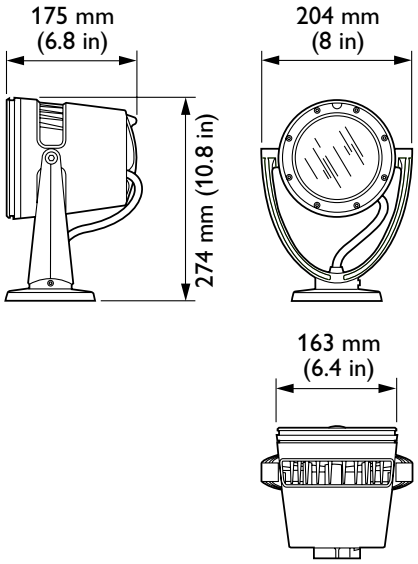
Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	381	88.2
0- 40	410	94.8
0- 60	429	99.3
0- 90	432	100.0
90-180	0	0.0
0-180	432	100.0

Coefficients Of Utilization - Zonal Cavity Method

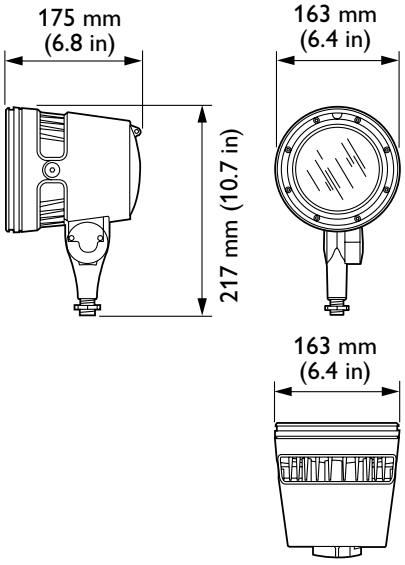
Effective Floor Cavity Reflectance: 20%

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	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	100	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79
7	93	86	82	79	92	86	82	79	85	81	78	84	80	78	83	80	77	76
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74
9	88	81	77	74	87	81	76	74	80	76	73	79	76	73	78	75	73	72
10	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70



ColorBurst Powercore Architectural

To calculate the number of luminaires your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/



ColorBurst Powercore Landscape

ColorBurst Powercore Specifications

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

Item	Specification	Details
Output	Beam Angle	8° primary optic 14° / 23° / 41° spread lenses 10° x 41° asymmetric spread lens
	Lumens*	647 (8°) 571 (14°) 558 (23°) 552 (41°) 584 (10° x 41°)
	LED Channels	Red / Green / Blue
	Lumen Maintenance†	100,000 hours L_{50} @ 25° C 70,000 hours L_{50} @ 50° C
Electrical	Input Voltage	100 to 240 VAC, auto-ranging, 50/60 Hz via Data Enabler Pro
	Power Consumption	30 W maximum at full output, steady state
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)*	274 x 204 x 175 mm (10.8 x 8 x 6.8 in) Architectural 271 x 163 x 175 mm (10.7 x 6.4 x 6.8 in) Landscape
	Weight	5 kg (11 lb) Architectural 3.4 kg (7.4 lb) Landscape
	Housing	Die-cast aluminium, powder-coated finish
	Lens	Tempered glass
	Luminaire Connections	1.8 m (6 in) unified power/data cable with flying leads Architectural 152 mm (6 in) flying leads Landscape
	Temperature Ranges	-40 to 50 °C (-40 to 122 °F) Operating -20 to 50 °C (-4 to 122 °F) Startup -40 to 80 °C (-40 to 176 °F) Storage
	Vibration Resistance	Complies with ANSI C136.31 (Architectural only)
	Humidity	0 to 95%, non-condensing
	Luminaire Run Lengths‡	46 @ 100 VAC 55 @ 120 VAC 78 @ 220 VAC 78 @ 240 VAC *Example configuration: 20 A circuit, 6.1 m (20 ft) leader cable from Data Enabler Pro to the first junction box, and 610 mm (2 ft) jumper cables between luminaires*
Certification and Safety	Certification	UL/cUL, FCC Class A, CE, PSE, CQC, C-Tick, SAA
	Environment	Dry/Damp/Wet Location, IP66

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

† 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 luminaires are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.colorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

‡ These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the luminaire run lengths.

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ColorBurst Compact Powercore Specifications

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

Item	Specification	Details	
Output	Beam Angle	8° primary optic 14° / 23° / 41° spread lenses 10° x 41° asymmetric spread lens	
	Lumens*	498 (8°) 429 (14°) 418 (23°) 405 (41°) 432 (10° x 41°)	
	LED Channels	Red/Green/Blue	
	Lumens Maintenance†	100,000 hours L_{50} @ 25° C 90,000 hours L_{50} @ 50° C	
Electrical	Input Voltage	100 to 240 VAC, auto-ranging, 50/60 Hz via Data Enabler Pro	
	Power Consumption	17.5 W maximum at full output, steady state	
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)*	250 x 114 x 178 mm (9.85 x 4.5 x 7 in) Architectural 205 x 114 x 178 mm (8.06 x 4.5 x 7 in) Landscape	
	Weight	3.9 kg (8.7 lb) Architectural 2 kg (4.4 lb) Landscape	
	Housing	Die-cast aluminium, powder-coated finish	
	Lens	Tempered glass	
	Luminaire Connections	1.8 m (6 ft) unified power/data cable with flying leads Architectural 152 mm (6 in) flying leads Landscape	
	Temperature Ranges	-40 to 50 °C (-40 to 122 °F) Operating -20 to 50 °C (-4 to 122 °F) Startup -40 to 80 °C (-40 to 176 °F) Storage	
	Humidity	0 to 95%, non-condensing	
	Vibration Resistance	Complies with ANSI C136.31 (Architectural only)	
	Mechanical Impact	IK07	
	Luminaire Run Lengths‡	77 @ 100 VAC 78 @ 120 VAC 78 @ 220 VAC 78 @ 240 VAC	*Example configuration: 20 A circuit, 6.1 m (20 ft) leader cable from Data Enabler Pro to the first junction box, and 610 mm (2 ft) jumper cables between luminaires*
Certification and Safety	Certification	UL/cUL, FCC Class A, CE, PSE, CQC, C-Tick, SAA	
	Environment	Dry/Damp/Wet Location, IP66	

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

† 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 luminaires are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.colorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

‡ These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the luminaire run lengths.

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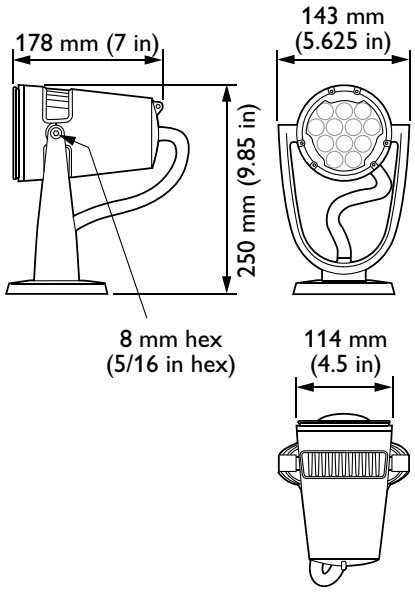
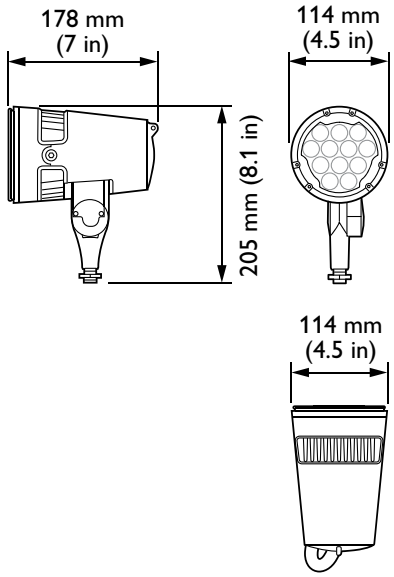


ColorBurst Compact Powercore Architectural

To calculate the number of luminaires your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/



ColorBurst Compact Powercore Landscape

Luminaires

ColorBurst Powercore luminaires are part of a complete system which includes:

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

Item	Type	Size	Housing Color	Item Number	Philips 12NC
ColorBurst Powercore UL/cUL/CE	Landscape	Standard	Gray	123-000015-00	910503700578
			Black	123-000015-03	910503701703
			White	123-000015-06	910503701706
		Compact	Gray	123-000019-00	910503701236
			Black	123-000019-03	910503701817
			White	123-000019-06	910503701820
ColorBurst Powercore UL/cUL/CE	Architectural	Standard	Gray	123-000015-01	910503700639
			Black	123-000015-04	910503701704
			White	123-000015-07	910503701707
		Compact	Gray	123-000019-01	910503701237
			Black	123-000019-04	910503701818
			White	123-000019-07	910503701821
ColorBurst Powercore CQC	Architectural	Standard	Gray	123-000015-02	910503701702
			Black	123-000015-05	910503701705
			White	123-000015-08	910503701708
		Compact	Gray	123-000019-02	910503701761
			Black	123-000019-05	910503701819
			White	123-000019-08	910503701822

Use Item Number when ordering in North America.

Accessories

Item	Type	Size	Housing Color	Item Number	Philips 12NC
Trim Ring		Standard	Gray	120-000103-00	910503701212
			Black	120-000103-06	910503701734
			White	120-000103-12	910503701737
		Compact	Gray	120-000103-03	910503701420
			Black	120-000103-09	910503701823
			White	120-000103-15	910503701826
45° Glare Shield		Standard	Gray	120-000103-01	910503701213
			Black	120-000103-07	910503701735
			White	120-000103-13	910503701738
		Compact	Gray	120-000103-04	910503701421
			Black	120-000103-10	910503701824
			White	120-000103-16	910503701827
Full Height Glare Shield		Standard	Gray	120-000103-02	910503701214
			Black	120-000103-08	910503701736
			White	120-000103-14	910503701739
		Compact	Gray	120-000103-05	910503701422
			Black	120-000103-11	910503701825
			White	120-000103-17	910503701828
Honeycomb Louver		Standard	Black	120-000104-00	910503701215
		Compact	Black	120-000104-01	910503701419
Spread Lenses	14°	Standard		120-000080-00	910503700609
		Compact		120-000080-04	910503701415
	23°	Standard		120-000080-01	910503700610
		Compact		120-000080-05	910503701416
	41°	Standard		120-000080-02	910503700611
		Compact		120-000080-06	910503701417
	10° x 41° asymmetric	Standard		120-000080-03	910503700612
		Compact		120-000080-07	910503701418
Data Enabler Pro	0.75 in / 0.5 in NPT (U.S. trade size conduit)			106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)			106-000004-01	910503701211

You can attach either one Honeycomb Louver or one Spread Lens at a time.

Use Item Number when ordering in North America.

Installation

ColorBurst Powercore offers saturated, color-changing LED spotlighting, site, and accent lighting with Powercore technology. Powercore, which integrates LED power and data management within the luminaire, eases installation by eliminating the need for external power supplies.

ColorBurst Powercore and ColorBurst Compact Powercore installation and configuration details are identical except where indicated.

Owner/User Responsibilities

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

Installing in Damp or Wet Locations

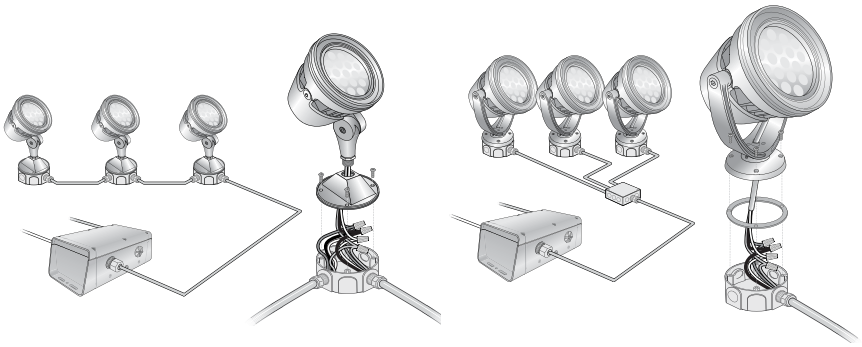
When installing in damp or wet locations, it is good practice to seal all luminaires and junction boxes with electronics-grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in any wiring compartments, cables, or other electrical parts. You must use suitable outdoor-rated junction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

Plan 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, luminaires, and cables.

   ColorBurst Powercore luminaires can be installed in series or in parallel (wired to a common junction box).

To streamline the configuration of complex installations, record the serial number (DMX) or IP address (Ethernet) and location of each Data Enabler Pro.



- ColorBurst Powercore Architectural luminaires feature a canopy base for mounting to standard US junction boxes. Luminaires can be mounted directly to a surface or substrate by removing the nylon cable clamp and disengaging the 1.8 m (6 ft) integrated power/data cable from the canopy base.
- ColorBurst Powercore Landscape luminaires feature a 0.5 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories such as stanchion mounts, posts, and stakes.

The maximum number of luminaires each Data Enabler Pro can support depends on specific configuration details such as length of leader and jumper cables, wire gauge, luminaire spacing, circuit size, line voltage, and method of connection (in series or in parallel). As an example, the tables to the left list the maximum number of ColorBurst Powercore Landscape and ColorBurst Compact Powercore Landscape luminaires each Data Enabler Pro can support at various voltages, assuming a 20 A circuit, a 6.1 m (20 ft) leader cable from Data Enabler Pro to the first junction box, and 610 mm (2 ft) jumper cables between luminaires. Keep in mind that these figures, provided as a guideline, are accurate for the specified configuration only. Changing the configuration can affect the luminaire run lengths.

Maximum luminaire run lengths

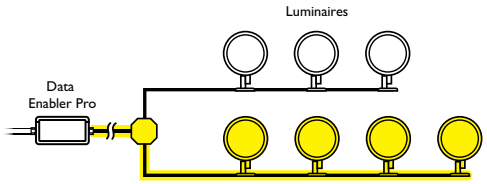
ColorBurst Powercore
46 @ 100 VAC
55 @ 120 VAC
78 @ 220 VAC
78 @ 240 VAC

ColorBurst Compact Powercore
77 @ 100 VAC
78 @ 120 VAC
78 @ 220 VAC
78 @ 240 VAC

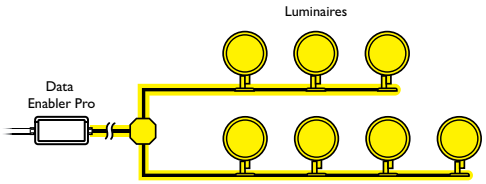
Assuming a 20 A circuit, 6.1 m (20 ft) leader cable from Data Enabler Pro to the first junction box, and 610 mm (2 ft) jumper cables between luminaires

For more information, and for help calculating the number of luminaires 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 luminaire 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 53.3 m (175 ft), and the total cable length per Data Enabler Pro should not exceed 122 m (400 ft).



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



Data integrity — 122 m (400 ft) maximum total length

Start the Installation

1. Install all Data Enabler Pro devices, including any interfaces with controllers. Data Enabler Pro devices and external controllers send power and control signals to the luminaires over a single luminaire cable. Additional cabling is required to connect luminaires together in parallel or in series.
2. Verify that all additional supporting equipment (switches, controllers) is in place.
3. Ensure that all additional parts and tools are available, including:

ColorBurst Powercore Architectural Installations

- The provided stainless steel screws for outdoor installations
- The provided junction box gasket for outdoor installations
- Unless surface-mounting, one 102 mm (4 in) round US electrical junction box per luminaire, rated for your application, with 89 mm (3.5 in) center-to-center screw holes for attaching the luminaire's base. (Refer to the manufacturer's literature for additional items required for mounting or sealing.)
- A 6 mm hex wrench for luminaire tilting and locking
- A 1/8 in hex wrench for luminaire swiveling and locking

ColorBurst Powercore Landscape Installations

- The provided locking nut
- One electrical junction box or mounting accessory per luminaire, rated for your application. (Refer to the junction box or accessory manufacturer's literature for specific information on mounting or sealing.)
- A 6 mm hex wrench for luminaire tilting and locking
- A 33 mm wrench for locking luminaires in place

All Installations

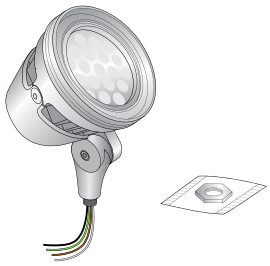
- A sufficient length 4-conductor wire. We recommend 12 AWG (2.05 mm) stranded copper wire.
- Conduit as required
- Electronics-grade room temperature vulcanizing (RTV) silicone sealant as required
- A 5/32 in hex wrench for installing accessories, or a 3 mm hex wrench for installing ColorBlast Compact Powercore accessories

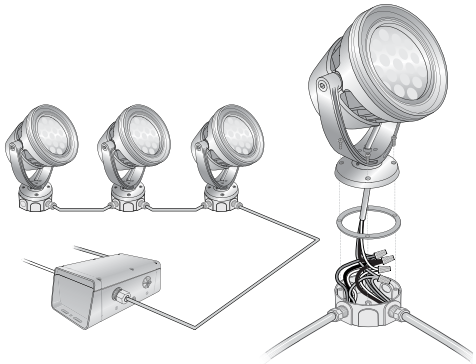
For complete instructions on how to wire the Data Enabler Pro, refer to the Data Enabler Pro Product Guide.

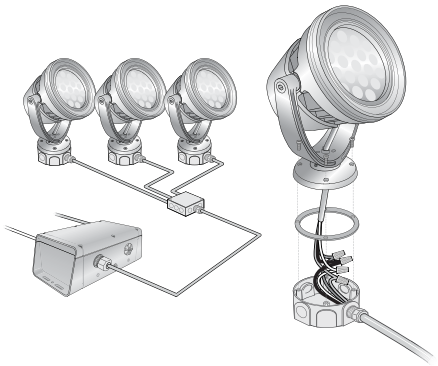
Included in the box

ColorBurst Powercore Architectural
ColorBurst Powercore Architectural luminaire
(4) 10-24 stainless steel screws for outdoor installation
Junction box gasket
Installation Instructions

ColorBurst Powercore Landscape
ColorBurst Powercore Landscape luminaire
Locking nut
Installation Instructions

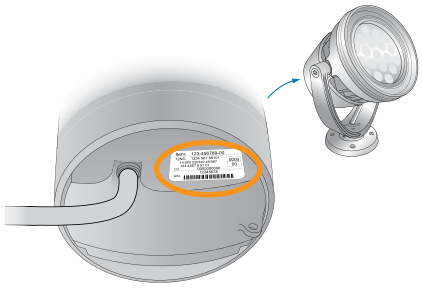




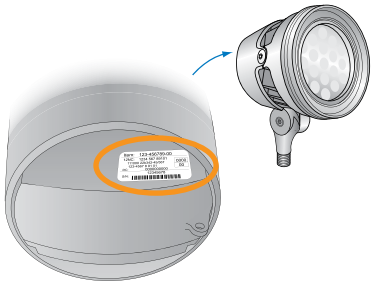


Unpack and Position Luminaires

1. Carefully inspect the box containing ColorBurst Powercore and the contents for any damage that may have occurred in transit.
2. Each ColorBurst Powercore luminaire comes pre-programmed with a unique serial number. As you unpack the luminaires, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.



Architectural



Landscape

3. Assign each luminaire 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 luminaire's housing.

Connecting and Mounting ColorBurst Powercore Architectural Luminaires

ColorBurst Powercore Architectural luminaires can be mounted to standard US junction boxes, or they can be mounted to a flat surface or substrate.

Make sure the power is OFF before mounting and connecting ColorBurst Powercore luminaires.

Connecting ColorBurst Powercore Architectural Luminaires to Junction Boxes

1. Mount junction boxes in accordance with the lighting design plan. Each luminaire is designed for mounting in a 102 mm (4 in) round US electrical junction box, rated for your application, with 89 mm (3.5 in) center-to-center screw holes for attaching the luminaire's base.

   Architectural luminaires are supplied with a grounding wire attached to the luminaire's base (canopy). The canopy ground wire can be attached to a grounding point in the junction box, or connected with the ground in the luminaire cable.

   Wiring between junction boxes must comply with local codes.

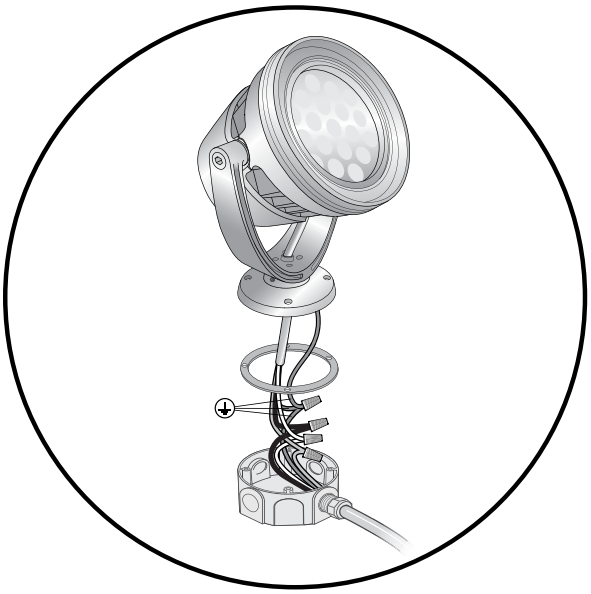
2. If installing luminaires in a series, pull copper wire between the junction boxes.

   If installing luminaires in parallel, pull copper wire from a Data Enabler Pro to a common junction box, and from the common junction box to each luminaire's junction box.

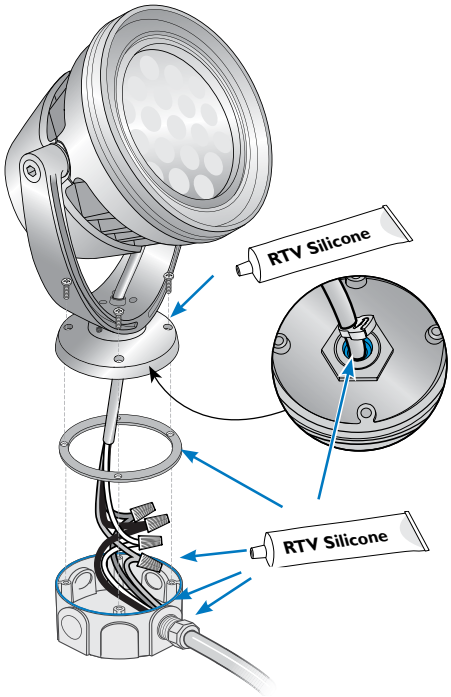
   We recommend the use of 12 AWG (2.05 mm), stranded 4-conductor copper wire. With the recommended wiring, the maximum cable run from a Data Enabler Pro device to any individual ColorBurst Powercore luminaire is 53 m (175 ft). When installing in parallel, the total cable length cannot exceed 122 m (400 ft).

3. Trim the cable from the luminaire to fit in the junction box, leaving enough cable to make wiring connections.
4. Use wire nuts to connect line, neutral, ground, and data. If installing in a damp or wet location, use the included junction box gasket.

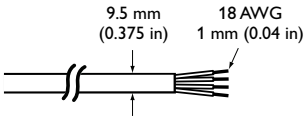
   Attach the canopy ground wire to a grounding point in the junction box, or combine it with the luminaire cable ground with a wire nut.

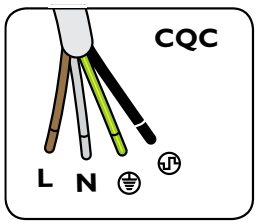


5. Tuck wire connections into the junction box.
6. Screw the luminaire's canopy base into the junction box using the four included 10-24 stainless steel screws. If installing in a damp or wet location, seal all junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.



Leader Cable connector dimensions

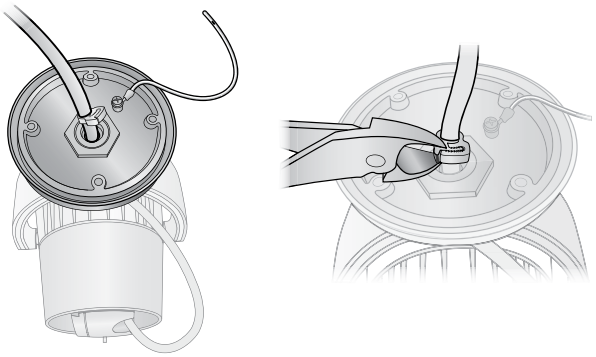


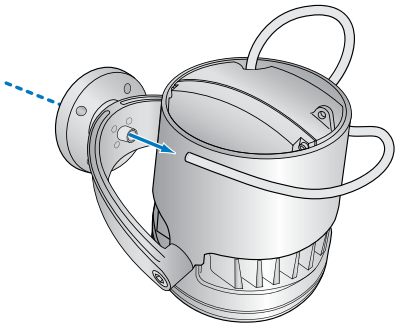


When there is a solo green or yellow wire attached to the canopy, it is a canopy ground wire that must not be removed. Connect this wire to a suitable grounding point in the junction box or elsewhere nearby.

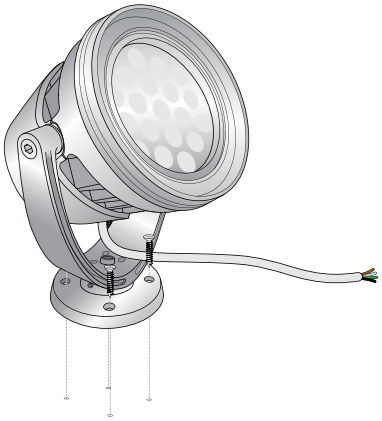
Surface-Mounting ColorBurst Powercore Architectural Luminaires

1. Prepare ColorBurst Powercore Architectural luminaires for surface-mounting:
   - Remove the nylon cable clamp from the luminaire's leader cable where it exits the underside of the canopy base.
   - Disengage the leader cable from the luminaire's canopy base.





2. Mount junction boxes in accordance with the lighting design plan.
3. Position each ColorBurst Powercore Architectural luminaire in its designated mounting location. Make sure the mounting surface is flat, suitable for the mounting hardware, and clear of debris and other obstructions.
4. Use four suitable mounting screws to secure each ColorBurst Powercore Architectural luminaire to the mounting location.



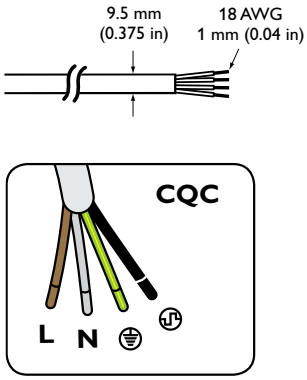
5. If installing luminaires in a series, pull copper wire between the junction boxes.

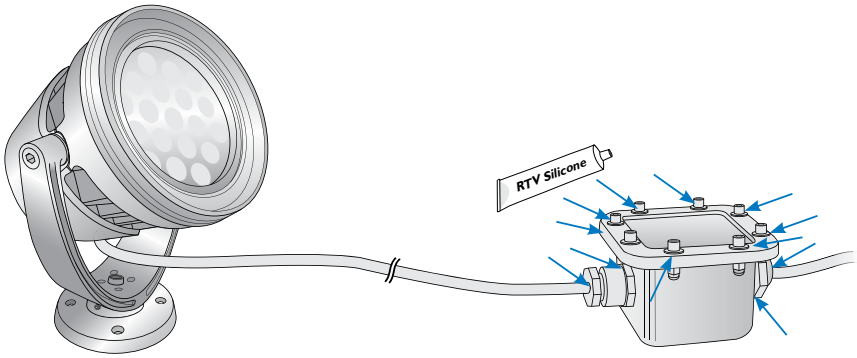
   If installing luminaires in parallel, pull copper wire from a Data Enabler Pro to a common junction box.

   We recommend the use of 12 AWG (2.05 mm), stranded 4-conductor copper wire. With the recommended wiring, the maximum cable run from a Data Enabler Pro device to any individual ColorBurst Powercore luminaire is 53 m (175 ft). When installing in parallel, the total cable length cannot exceed 122 m (400 ft).

6. Use wire nuts to connect line, neutral, ground, and data. If installing in a damp or wet location, use the included junction box gasket.
7. Tuck wire connections into the junction box.
8. Secure all junction box covers. If installing in a damp or wet 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.

Leader Cable connector dimensions





Connecting and Mounting ColorBurst Powercore Landscape Luminaires

ColorBurst Powercore Landscape luminaires feature a 0.5 in NPT threaded post for installing to standard junction boxes, stanchion mounts, posts, stakes, and other landscape mounting accessories.

Make sure the power is OFF before mounting and connecting ColorBurst Powercore luminaires.

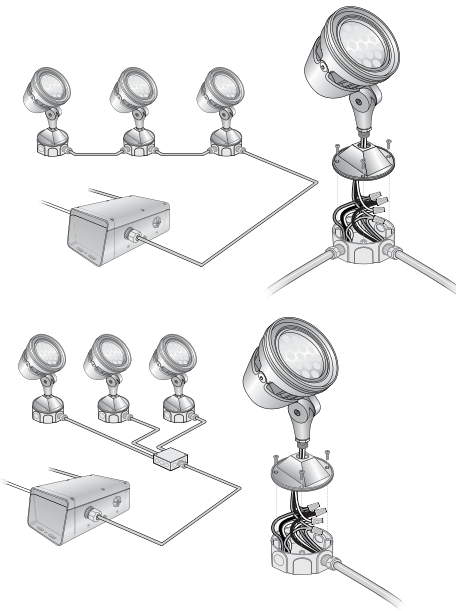
1. Mount junction boxes and any landscape mounting accessories in accordance with the lighting design plan.
2. If installing luminaires in a series, pull copper wire between the junction boxes, and from the junction boxes to the luminaires as needed.

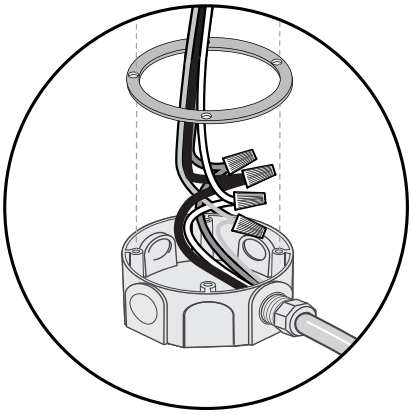
   If installing luminaires in parallel, pull copper wire from a Data Enabler Pro to a common junction box, and from the common junction box to the luminaires.

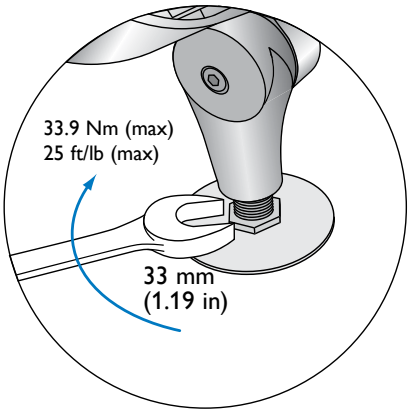
   We recommend the use of 12 AWG (2.05 mm), stranded 4-conductor copper wire. With the recommended wiring, the maximum cable run from a Data Enabler Pro device to any individual ColorBurst Powercore luminaire is 53 m (175 ft). When installing in parallel, the total cable length cannot exceed 122 m (400 ft).

3. Thread the locking nut onto the ColorBurst Powercore Landscape threaded post.
4. Use wire nuts to connect line, neutral, ground, and data.

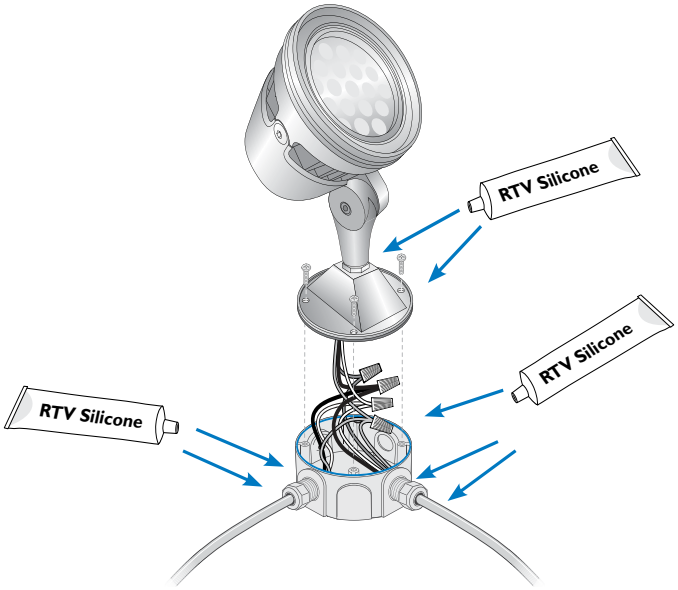
Install luminaires in series or in parallel







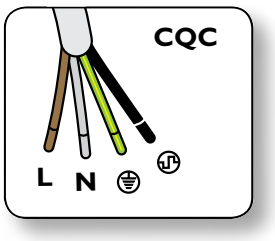
5. Tuck wire connections into the junction box or mounting accessory.
6. Using a 33 mm wrench, torque the locking nut to 33.9 Nm (25 ft/lb). Do not overtighten.
7. If installing in a damp or wet location, seal all junction boxes and mounting accessories with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.

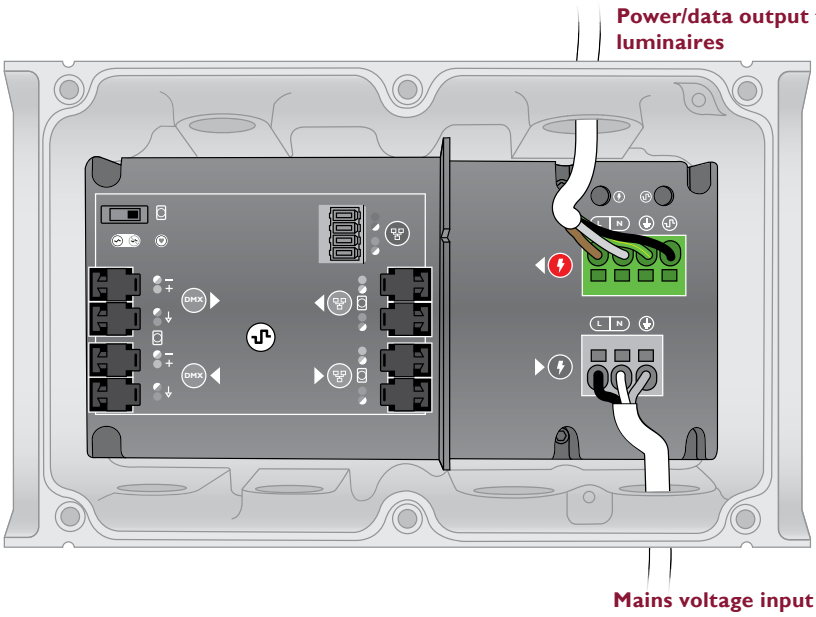


Connect Luminaire Cable to Power

Once you've made all luminaire and junction box connections, connect the lead cable to the 4-wire PC terminal connector block inside the Data Enabler Pro Housing.

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





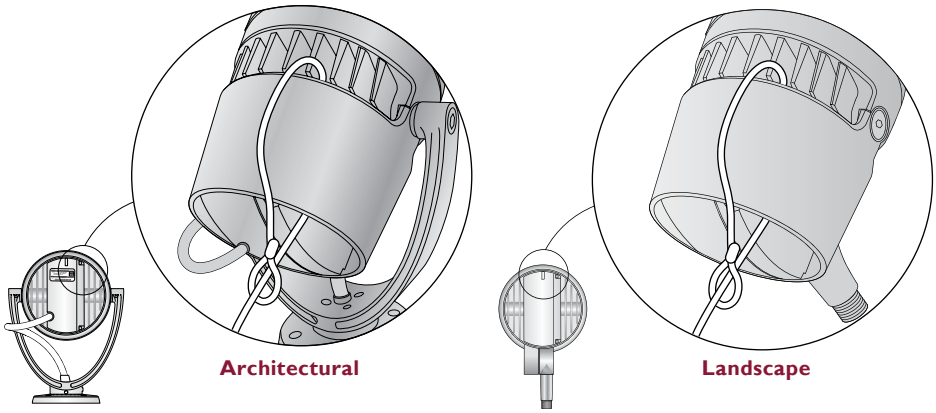
Attach Safety Cable (Optional)

When installing ColorBurst Powercore luminaires to a wall or overhead, use a safety cable to tether it to a secure anchor point. When dictated by local or state code or advised by a structural engineer, attach a safety cable to the ColorBurst Powercore luminaire housing and tether it to a secure anchor point.

1. Thread a safety cable through the luminaire housing as shown.
2. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.

Safety cable minimum requirements

Material	304 or 316 Stainless Steel
Size	4 mm (5/32 in) nominal diameter Minimum break load must be greater than 1,089 kg (2,400 lb)

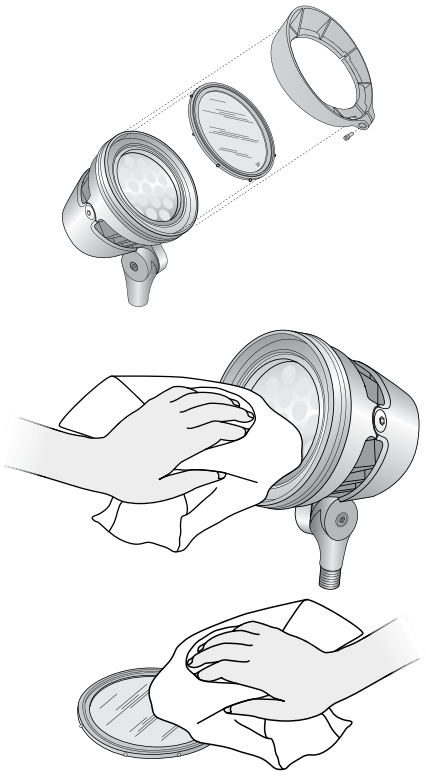


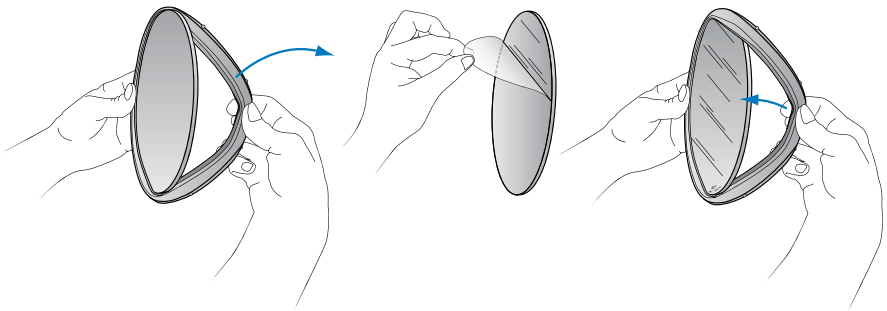
Attach Accessories (Optional)

Honeycomb Louvers and exchangeable ColorBurst Powercore spread lenses of 14°, 23°, 41°, and an asymmetric 10° x 41° support a variety of photometric distributions for a multitude of applications.

You attach Honeycomb Louvers and Spread Lenses with the Trim Ring, 45° Glare Shield, or Full Height Glare Shield, available separately. You can attach either one Honeycomb Louver or one Spread Lens at a time.

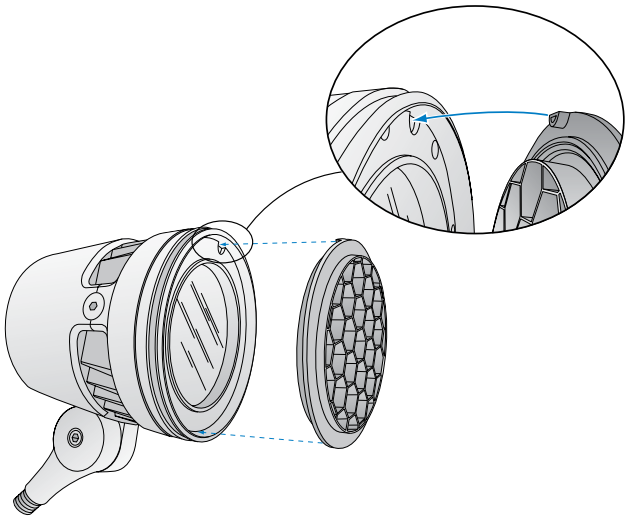
1. Unpack and confirm the contents of the box. Each accessory is shipped one per box. Spread Lenses include an attached rubber gasket. The Trim Ring, 45° Glare Shield, and Full Height Glare Shield include an attached locking screw.
2. Clean the face of the ColorBurst Powercore housing, including glass surfaces, using a mild, non-abrasive cleaner. Ensure that all surfaces are dry. If using a spread lens, also clean and dry both sides of the spread lens.
3. If using a spread lens, remove the protective film from the side of the lens on which the beam angle is printed.



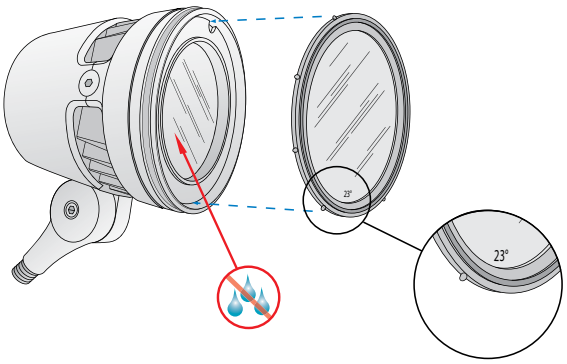


4. Position the honeycomb louver or spread lens:

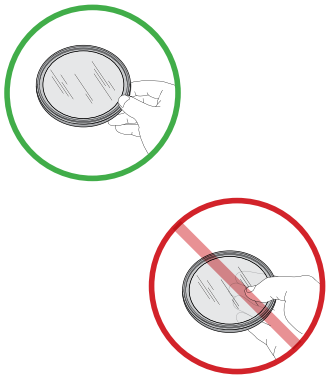
   - If using the honeycomb louver, insert the tab on the honeycomb louver into the notch on the face of the ColorBurst Powercore luminaire housing.



   - If using a spread lens, make sure that the beam-angle designation on the edge of the lens is face up. Handle the spread lens by the gasket, making sure not to touch or soil either surface of the spread lens. Rest the lens against the face of the ColorBurst Powercore housing. Make sure that there is no moisture between the spread lens and the glass lens, as any moisture will compromise the effectiveness of the spread lens.

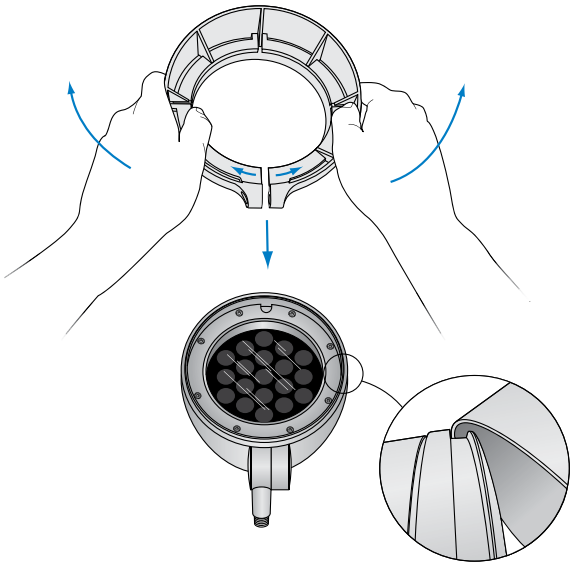


5. If necessary, use a 5/32 in hex wrench to remove the locking screw from the trim ring or glare shield.

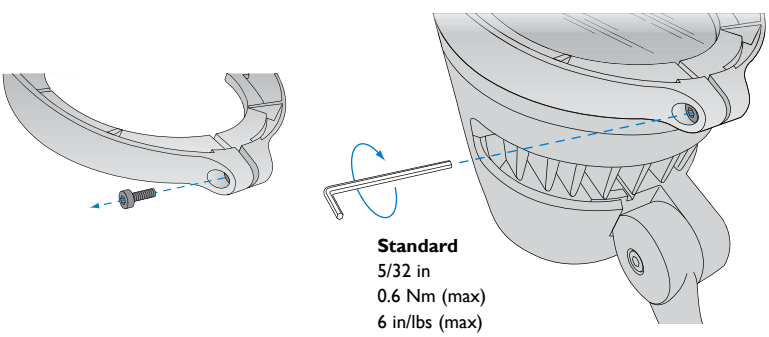


Rotating the asymmetric 10° x 41° spread lens changes its effect on the luminaire's light output. You may want to rough-in the spread lens position, fine-tune it when aiming and locking the luminaire, then lock down the trim ring or glare shield once the lens is positioned to give the desired results.

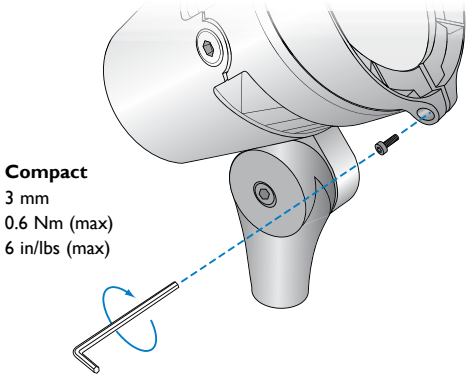
6. Grab the trim ring or glare shield with both hands, flex it gently open, and clip it to the front rim of the luminaire housing.



7. Insert the locking screw into the opening on the trim ring or glare shield. Use a 5/32 in hex wrench and torque to 0.6 Nm (6 in/lbs). For ColorBurst Compact Powercore, use a 3 mm hex wrench.



Standard
5/32 in
0.6 Nm (max)
6 in/lbs (max)



Compact
3 mm
0.6 Nm (max)
6 in/lbs (max)

Address and Configure the Luminaires

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

ColorBurst Powercore luminaires operate in 8-bit mode by default. You can configure ColorBurst Powercore to operate in 16-bit mode, which increases luminaire resolution for smoother dimming.

In 8-bit mode, luminaires use one DMX address per LED channel (red, green, and blue). In 16-bit mode, luminaires 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 luminaire resolution from 256 dimming steps to 65,536 (256 x 256) dimming steps.

You can address luminaires and switch between 8-bit mode and 16-bit mode using QuickPlay Pro.You can download QuickPlay Pro from www.colorkinetics.com/support/addressing/

DMX Channel Assignments						
8-Bit Mode	1		2		3	
	Red		Green		Blue	
16-Bit Mode	1	2	3	4	5	6
	Red Coarse	Red Fine	Green Coarse	Green Fine	Blue Coarse	Blue Fine

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

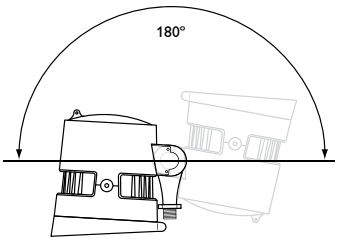
You will need the layout grid that you created when you recorded the serial numbers of the light luminaires in your installation.

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

For complete details on addressing and configuring ColorBurst Powercore luminaires with QuickPlay Pro, refer to the *Addressing and Configuration Guide*, which you can view or download at www.colorkinetics.com/support/addressing.

Aim and Lock Luminaires

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

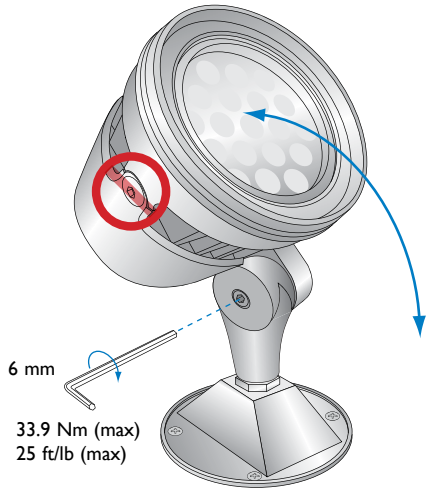


Make sure power is ON before aiming luminaires.

ColorBurst Powercore luminaires can tilt through a full 180°. ColorBurst Powercore Architectural luminaires can also rotate through a full 360° for precise aiming. Locking nuts use standard hex wrenches to secure luminaires firmly in position.

Aiming and Locking ColorBurst Powercore Landscape Luminaires

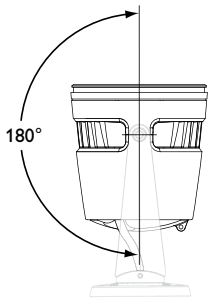
1. Using a 6 mm hex wrench, loosen the locking nut on the side of the luminaire base.
2. Aim the luminaire by tilting the beam as desired.
3. When the luminaire is aimed as desired, re-tighten the locking nut to secure the luminaire in place. Torque to 33.9 Nm (25 ft/lbs). Do not over-tighten.

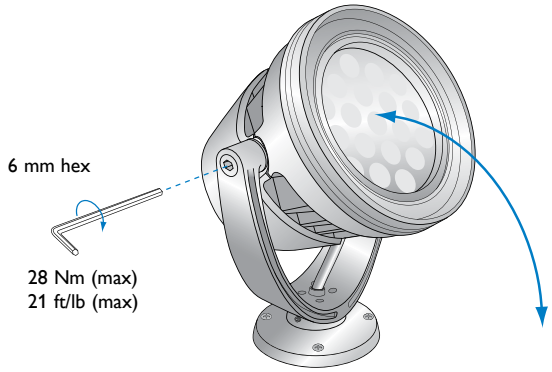


Aiming and Locking ColorBurst Powercore Architectural Luminaires

1. To tilt the beam:

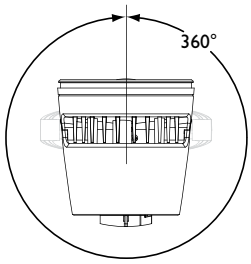
   - Loosen the locking nuts on either side of the luminaire yoke using a 6 mm hex wrench.
   - Tilt the beam as desired.
   - Re-tighten the locking nuts to secure the luminaire in place. Torque to 28 Nm (21 ft/lbs). Do not over-tighten.

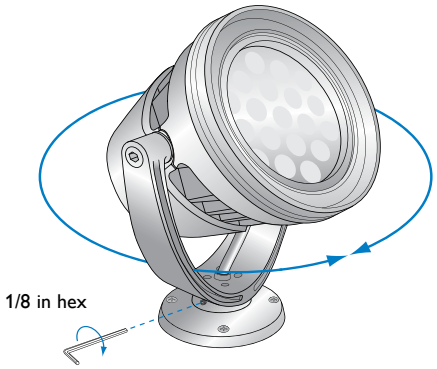




2. To rotate the luminaire:

   - Loosen the locking nuts on either side of the luminaire yoke's base using a 1/8 in hex wrench.
   - Rotate the luminaire as desired.
   - Re-tighten the locking nuts to secure the luminaire in place.





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DAS-000029-00 R08 09 Jan 2018

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