



ColorBurst Powercore

High-output, exterior RGB spotlight for accent and site lighting

PHILIPS

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ColorBurst® Powercore is a high-output, exterior-rated LED lighting fixture designed for accent and site lighting. Standard format Architectural and Landscape fixtures deliver full-color light output of up to 647 lumens, while compact fixtures deliver up to 498 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 ColorBurst Powercore fixtures directly from line voltage. The Philips Data Enabler Pro merges line voltage and control data and delivers them to the fixture over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Flexible mounting options in architectural applications — ColorBurst Powercore Architectural fixtures 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 fixtures feature a 1/2 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories such as stanchion mounts, posts, and stakes for use in softscape and hardscape applications.
- Outdoor rated — With a rugged, die-cast aluminum housing fully sealed for maximum fixture 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. Available glare shields block spill light, while honeycomb louvers limit the spread of light for a more focused and intense beam.
- Versatile light positioning — ColorBurst Powercore fixtures can tilt through a full 180°. ColorBurst Powercore Architectural fixtures can also rotate through a full 360° for precise aiming. Locking nuts accept standard hex wrenches to secure fixtures firmly in position.
- Universal power input range — ColorBurst Powercore accepts a universal power input range of 100 to 240 VAC, allowing long fixture runs and consistent installation in any location around the world.
- Industry-leading controls — ColorBurst Powercore works seamlessly with the complete line of Philips 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 fixtures 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 aluminum 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

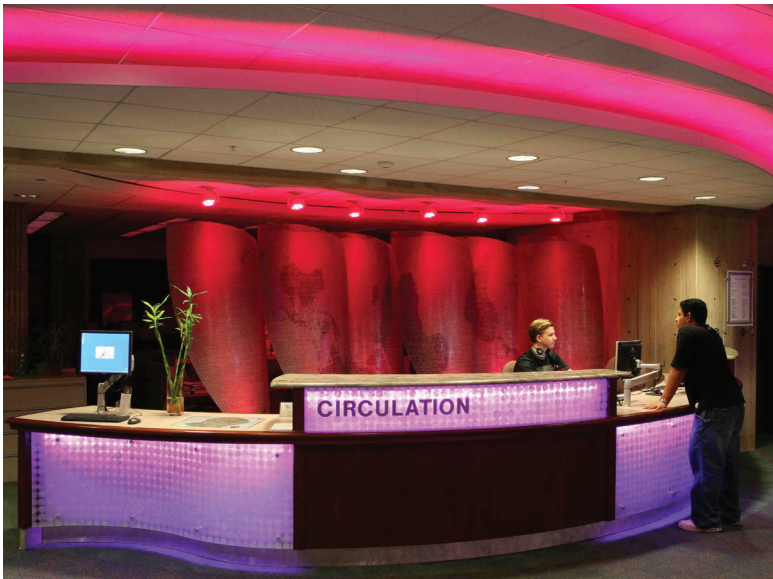
The Richard G. Folsom Library on the Troy, New York, campus of Rensselaer Polytechnic Institute (RPI) had not been renovated since its opening in 1976. RPI

recognized the need for a refurbishment that would make its main library more user-friendly and inspire and attract students, researchers, and others.

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 fixtures throughout — to lend color to computer hubs and work areas, for example. ColorBurst fixtures 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 fixtures 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.



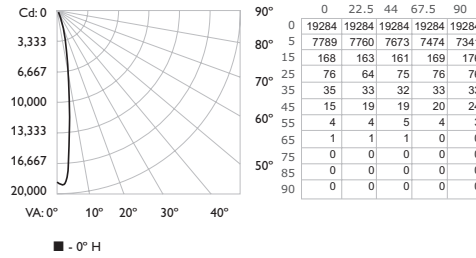
Photometrics

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

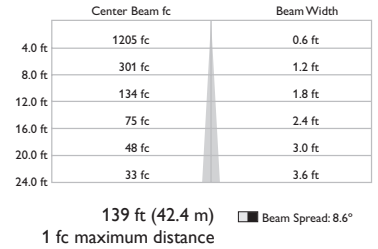
ColorBurst Powercore 8° primary optic

LED	Lumens	Efficacy
RGB	647	24.6

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

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

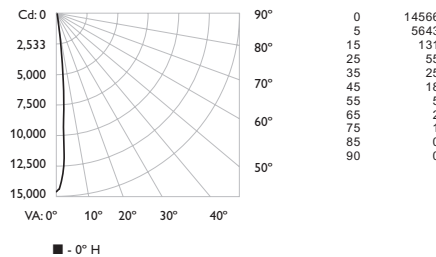
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																			
RCC %:		80				70				50				30				10		0	
RW %:		50	30	0		50	30	0		50	30	0		50	30	0		50	30	0	
RCC:	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	1.00	
	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	.99	.98	.99	
	2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	.97	1.06	1.04	1.03	1.02	1.00	1.00	1.00	.99	.98	.97	.98	
	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	.97	
	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	.95	
	5	1.07	1.02	.99	.97	1.05	1.01	.98	.94	1.00	.97	.96	.96	.96	.95	.97	.95	.94	.93	.94	
	6	1.05	1.00	.97	.95	1.04	1.00	.97	.93	.98	.96	.94	.97	.95	.94	.96	.94	.93	.92	.93	
	7	1.03	.99	.96	.93	1.02	.98	.95	.92	.97	.95	.93	.96	.94	.92	.95	.93	.92	.91	.92	
	8	1.02	.97	.94	.92	1.01	.97	.94	.91	.96	.93	.92	.95	.93	.91	.94	.92	.91	.90	.91	
	9	1.00	.96	.93	.91	1.00	.95	.93	.90	.95	.92	.91	.94	.92	.90	.94	.92	.90	.89	.90	
	10	.99	.95	.92	.90	.99	.94	.92	.89	.94	.91	.90	.93	.91	.90	.93	.91	.89	.89	.89	

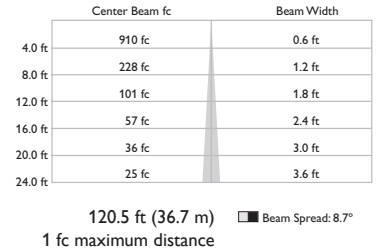
ColorBurst Compact Powercore 8° primary optic

LED	Lumens	Efficacy
RGB	498	24.4

Polar Candela Distribution



Illuminance at 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

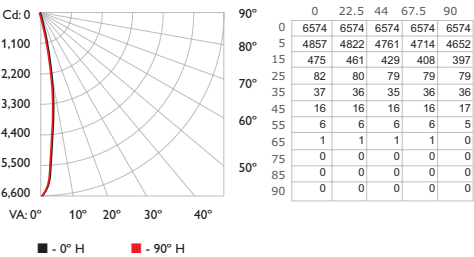
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																			
		80				70				50				30				10			
RC		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RW		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	119119119119	116116116116	1111111111	107107107	102102102	100															
1	116114113111	114112111109	108107106	105104103	101101100	98															
2	113110108105	111108106104	105104102	103101100	100	99	98	97													
3	110107104101	109105103101	103101	99	101	99	98	99	97	96	95										
4	108104101	107103100	101	99	97	96	98	96	95	94											
5	106101	105101	98	96	99	97	95	98	96	94	96	95	93								
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			

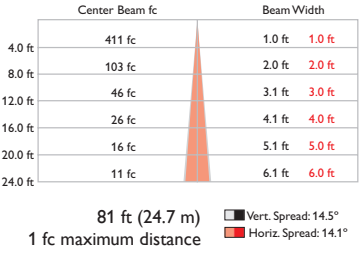
ColorBurst Powercore
14° spread lens

LED	Lumens	Efficacy
RGB	571	21.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens % Lamp	% Luminaire
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%

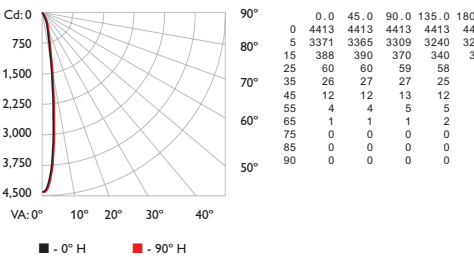
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%															
		80				70				50				30			
RCC %:		20	50	30	0	20	50	30	0	50	30	20	50	30	20	50	30
RCC %:	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	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
	2	1.09	1.04	1.01	.97	1.07	1.03	.99	.89	.99	.97	.94	.96	.94	.92	.94	.92
	3	1.04	.98	.93	.90	1.02	.97	.92	.84	.94	.91	.88	.92	.89	.86	.89	.87
	4	.99	.92	.87	.83	.98	.91	.87	.80	.89	.85	.82	.87	.84	.81	.85	.82
	5	.95	.87	.82	.78	.93	.86	.81	.75	.85	.80	.77	.83	.79	.76	.82	.78
	6	.91	.83	.77	.73	.89	.82	.77	.71	.81	.76	.73	.79	.75	.72	.78	.74
	7	.87	.79	.73	.69	.86	.78	.73	.68	.77	.72	.69	.76	.71	.68	.74	.71
	8	.83	.75	.69	.66	.82	.74	.69	.65	.73	.69	.65	.72	.68	.65	.71	.68
	9	.80	.71	.66	.62	.79	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.65
	10	.77	.68	.63	.60	.76	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62

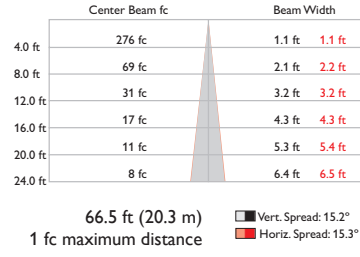
ColorBurst Compact Powercore
14° spread lens

LED	Lumens	Efficacy
RGB	429	21.0

Polar Candela Distribution



Illuminance at Distance



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

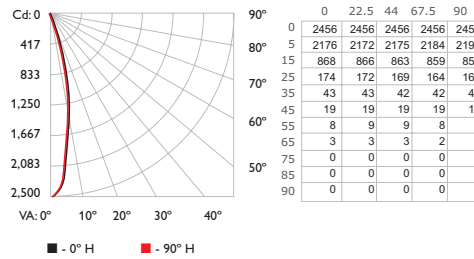
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%															
		80				70				50				30			
RC		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RW	0	119119119119	116116116116	111111111111	106106106	102102102	100										
	1	115113111110	1131111110108	107106105	104103102	100100	99	97									
	2	112109106104	110107105102	104102100	101100	98	98	97	96	95							
	3	109105101	107103100	101	99	97	99	97	95	97	95	94	93				
	4	106101	98	95	105100	97	95	98	96	94	97	94	92	95	93	92	90
	5	103	98	95	102	98	94	92	96	93	91	95	92	90	93	91	88
	6	101	96	92	100	95	92	89	94	91	89	93	90	88	92	89	87
	7	99	93	90	98	93	90	87	92	89	87	91	88	86	90	88	85
	8	97	91	88	96	91	88	85	90	87	85	89	87	85	89	86	84
	9	95	90	86	94	89	86	84	88	86	83	88	85	83	87	85	83
	10	94	88	85	82	93	88	84	82	87	84	82	86	84	82	83	81

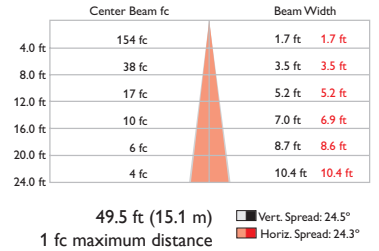
ColorBurst Powercore 23° spread lens

LED	Lumens	Efficacy
RGB	558	21.2

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

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

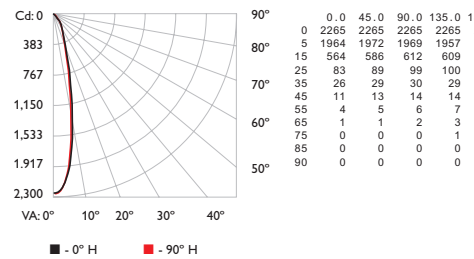
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RCC %:		80			70			50			30		
RW %:		70	50	30	0	70	50	30	0	50	30	20	10
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		1.15	1.13	1.11	1.09	1.12	1.10	1.09	1.07	1.05	1.04	1.03	1.02
2		1.11	1.07	1.04	1.01	1.09	1.05	1.03	1.02	1.00	0.98	0.96	0.94
3		1.07	1.02	0.98	0.95	1.05	1.01	0.97	0.90	0.85	0.83	0.81	0.79
4		1.03	0.98	0.94	0.90	1.02	0.97	0.93	0.87	0.81	0.78	0.76	0.74
5		1.00	0.94	0.90	0.86	0.99	0.93	0.89	0.84	0.78	0.75	0.73	0.71
6		0.97	0.90	0.86	0.83	0.96	0.90	0.86	0.81	0.75	0.72	0.70	0.68
7		0.94	0.87	0.83	0.80	0.93	0.87	0.83	0.78	0.72	0.69	0.67	0.65
8		0.91	0.84	0.80	0.77	0.90	0.84	0.80	0.75	0.69	0.66	0.64	0.62
9		0.89	0.82	0.78	0.75	0.88	0.81	0.77	0.74	0.68	0.65	0.63	0.61
10		0.86	0.79	0.75	0.72	0.86	0.79	0.75	0.72	0.66	0.63	0.61	0.59

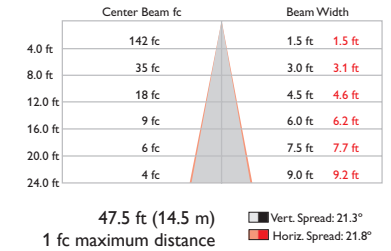
ColorBurst Compact Powercore 23° spread lens

LED	Lumens	Efficacy
RGB	418	20.5

Polar Candela Distribution



Illuminance at Distance



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

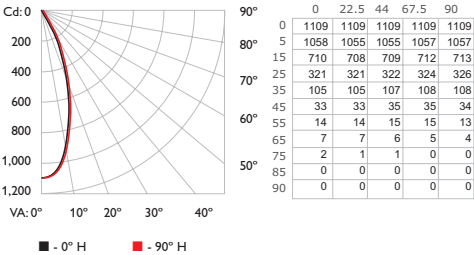
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RC		80			70			50			30		
RW		70	50	30	10	70	50	30	10	50	30	10	0
0		119	119	119	119	116	116	116	116	111	111	111	106
1		115	112	111	109	112	110	109	107	105	104	103	102
2		111	107	104	101	109	105	103	100	98	96	94	93
3		107	102	99	96	105	101	98	95	93	91	89	87
4		104	98	94	91	102	97	94	91	90	88	86	84
5		101	95	91	87	99	94	90	87	87	85	83	81
6		98	91	87	84	96	91	87	84	84	82	80	78
7		95	89	84	81	94	88	84	81	81	79	77	75
8		92	86	82	79	91	85	81	78	78	76	74	72
9		90	83	79	77	89	83	79	77	77	75	73	71
10		88	81	77	75	87	81	77	74	74	72	70	68

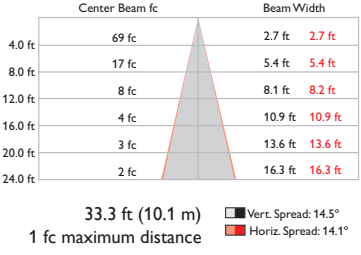
ColorBurst Powercore 41° spread lens

LED	Lumens	Efficacy
RGB	552	20.9

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

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

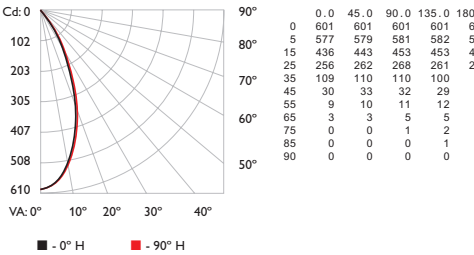
Coefficients Of Utilization - Zonal Cavity Method

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

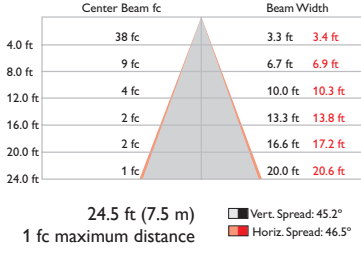
ColorBurst Compact Powercore 41° spread lens

LED	Lumens	Efficacy
RGB	405	19.9

Polar Candela Distribution



Illuminance at Distance



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

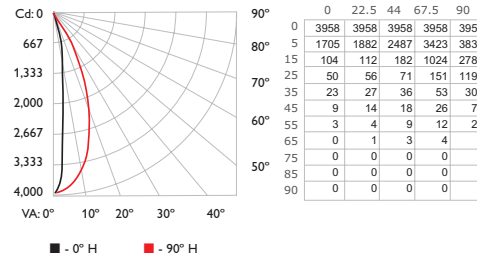
Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																				
RC		80				70				50				30				10				0
RW		70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0		
0	119119119119					116116116116				1111111111				106106106			102102102			100		
1	113110108106					11108106104				104103101				1019998			979695			93		
2	1081039996					1051019894				989592				959390			929089			87		
3	102969187					100959087				928885				908684			878583			81		
4	97908580					96898480				878279				858178			838077			76		
5	93847975					91837874				827774				807673			797572			71		
6	88797469					87797369				777269				767268			757168			66		
7	84756965					83746965				736865				726764			716764			62		
8	80716561					79706561				696461				686461			676360			59		
9	77676258					76676158				666157				656057			646057			56		
10	73645855					72635854				635854				625754			615754			53		

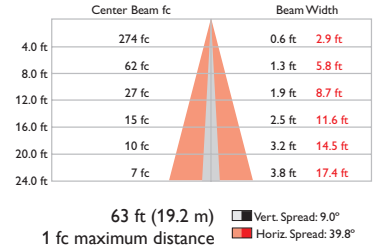
ColorBurst Powercore 10° x 41° spread lens

LED	Lumens	Efficacy
RGB	584	22.2

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

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

Efficiency Total: 100%

Coefficients Of Utilization - Zonal Cavity Method

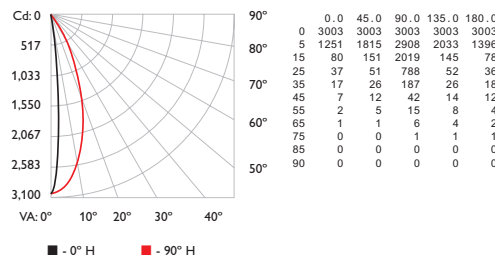
RCC %:		80		70		50		30		10		0	
RW %:		20	50	30	0	20	50	30	0	20	50	30	0
RCR: 0		1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.06	1.06
1		1.15	1.12	1.10	1.09	1.12	1.10	1.08	.96	1.06	1.05	1.04	1.03
2		1.10	1.06	1.03	1.01	1.08	1.05	1.02	.92	1.02	.99	.97	.95
3		1.06	1.01	.97	.94	1.05	1.00	.96	.89	.98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

Effective Floor Cavity Reflectance: 20%

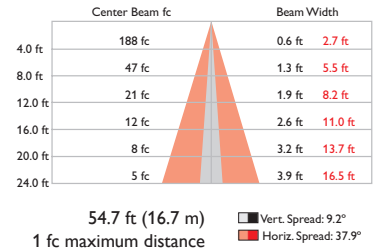
ColorBurst Compact Powercore 10° x 41° spread lens

LED	Lumens	Efficacy
RGB	432	21.3

Polar Candela Distribution



Illuminance at Distance



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

RC		80		70		50		30		10		0	
RW		70	50	30	10	70	50	30	10	50	30	10	0
0		119119119119	116116116116	111111111111	106106106	102102102	100						
1		115112110109	1121110109107	106105104	103102101	99	98	98	96				
2		111107103101	108105102100	102	99	97	95	96	95	93	92		
3		107102	98	95	105100	97	94	98	95	92	95	93	91
4		103	97	93	90	101	96	92	89	94	91	88	85
5		100	93	89	85	98	92	88	85	91	87	84	82
6		96	90	85	82	95	89	85	82	88	84	81	79
7		93	86	82	79	92	86	82	79	85	81	78	76
8		91	84	79	76	90	83	79	76	82	78	75	74
9		88	81	77	74	87	81	76	74	80	76	73	72
10		86	79	74	71	85	78	74	71	77	73	71	70

Effective Floor Cavity Reflectance: 20%

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
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 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)	10.8 x 8.0 x 6.8 in (274 x 204 x 175 mm) Architectural 10.7 x 6.4 x 6.8 in (271 x 163 x 175 mm) Landscape
	Weight	11 lb (5 kg) Architectural 7.4 lb (3.4 kg) Landscape
	Housing	Die-cast aluminium, powder-coated finish
	Lens	Tempered glass
	Fixture Connections	6 ft (1.8 m) unified power / data cable with flying leads Architectural 6 in (152 mm) flying leads Landscape
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Vibration Resistance	ANSI C136.31 (Architectural only)
	Humidity	0 – 95%, non-condensing
Certification and Safety	Certification	UL / cUL, FCC Class A, CE
	Environment	Dry / Damp / Wet Location, IP66

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

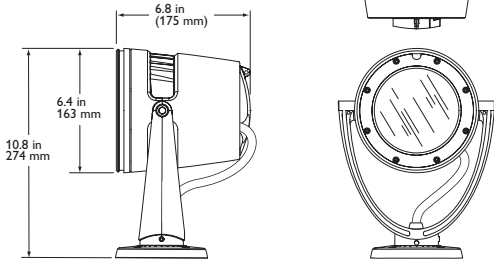
† Lumen measurement complies with IES LM-79-08 testing procedures

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

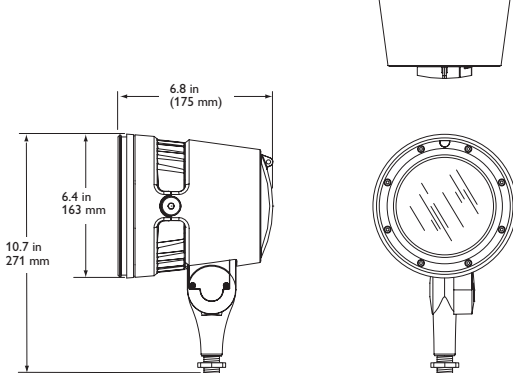


*Example configuration:
20 A circuit, 20 ft (6.1 m) leader cable from Data Enabler Pro to the first junction box, and 2 ft (610 mm) jumper cables between fixtures*

ColorBurst Powercore Architectural



ColorBurst Powercore Landscape



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Lumen Maintenance

Lumen maintenance values 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.

Ambient Temperatures	L70*	L50†
1 RGB Channel Full On		
@ 25° C	120,000 hours	150,000 hours
@ 50° C	80,000 hours	100,000 hours
2 RGB Channels Full On		
@ 25° C	90,000 hours	120,000 hours
@ 50° C	60,000 hours	90,000 hours
3 RGB Channels Full On		
@ 25° C	90,000 hours	120,000 hours
@ 50° C	55,000 hours	70,000 hours

* L70 = 70% maintenance of lumen output (when light output drops below 70% of initial output).

† L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output).

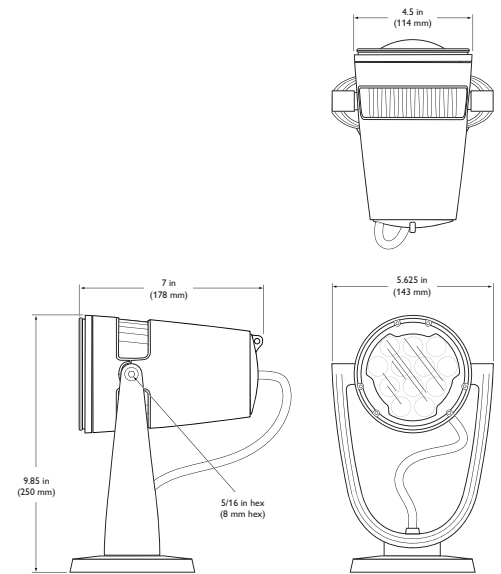
ColorBurst Compact Powercore Specifications

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
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 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)	9.85 x 4.5 x 7.0 in (250 x 114 x 178 mm) Architectural 8.06 x 4.5 x 7.0 in (205 x 114 x 178 mm) Landscape
	Weight	8.7 lb (3.9 kg) Architectural 4.4 lb (2.0 kg) Landscape
	Housing	Die-cast aluminium, powder-coated finish
	Lens	Tempered glass
	Fixture Connections	6 ft (1.8 m) unified power / data cable with flying leads Architectural 6 in (152 mm) flying leads Landscape
	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
	Vibration Resistance	ANSI C136.31 (Architectural only)
	Fixture Run Lengths*	77 @ 100 VAC 78 @ 120 VAC 78 @ 220 VAC 78 @ 240 VAC <i>Example configuration: 20 A circuit, 20 ft (6.1 m) leader cable from Data Enabler Pro to the first junction box, and 2 ft (610 mm) jumper cables between fixtures</i>
	Certification	UL / cUL, FCC Class A, CE
Certification and Safety	Environment	Dry / Damp / Wet Location, IP66

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

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



ColorBurst Compact Powercore Architectural

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

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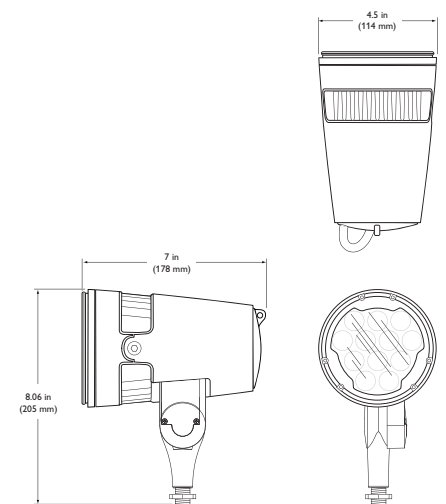
Lumen Maintenance

Lumen maintenance values 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.

Ambient Temperatures	L70†	L50‡
1 RGB Channel Full On		
@ 25° C	120,000 hours	150,000 hours
@ 50° C	80,000 hours	100,000 hours
2 RGB Channels Full On		
@ 25° C	90,000 hours	120,000 hours
@ 50° C	60,000 hours	90,000 hours
3 RGB Channels Full On		
@ 25° C	80,000 hours	100,000 hours
@ 50° C	50,000 hours	90,000 hours

† L70 = 70% maintenance of lumen output (when light output drops below 70% of initial output).

‡ L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output).



ColorBurst Compact Powercore Landscape

Fixtures and Accessories

ColorBurst Powercore fixtures 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 fixtures 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	
	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		3/4 in / 1/2 in NPT (US 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.

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 fixture, eases installation by eliminating the need for external power supplies.

Owner / User Responsibilities

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

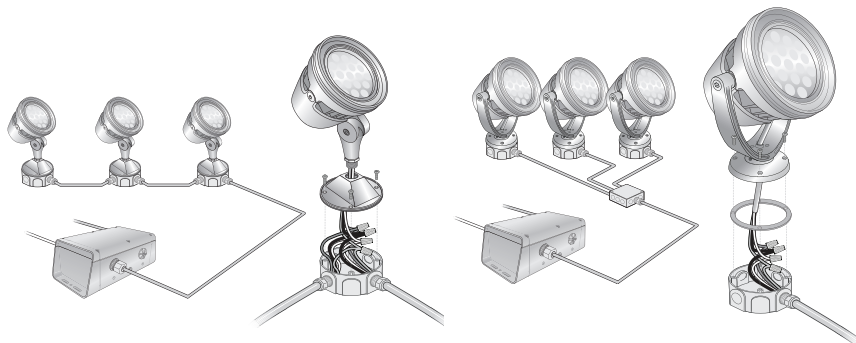
Installing in Damp or Wet Locations

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 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, fixtures, and cables.

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



- ColorBurst Powercore Architectural fixtures feature a canopy base for mounting to standard US junction boxes. Fixtures can be mounted directly to a surface or substrate by removing the nylon cable clamp and disengaging the 6 ft (1.8 m) integrated power / data cable from the canopy base.
- ColorBurst Powercore Landscape fixtures feature a 1/2 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 fixtures each Data Enabler Pro can support depends on specific configuration details such as length of leader and jumper cables, wire gauge, fixture 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 fixtures each Data Enabler Pro can support at various voltages, assuming a 20 A circuit, a 20 ft (6.1 m) leader cable from Data Enabler Pro to the first junction box, and 2 ft (610 mm) jumper cables between fixtures. Keep in mind that these figures, provided as a guideline, are accurate for the specified configuration only. Changing the configuration can affect the fixture run lengths.

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

✳ Refer to the ColorBurst Powercore Installation Instructions for specific warning and caution statements.

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

Maximum fixture run lengths

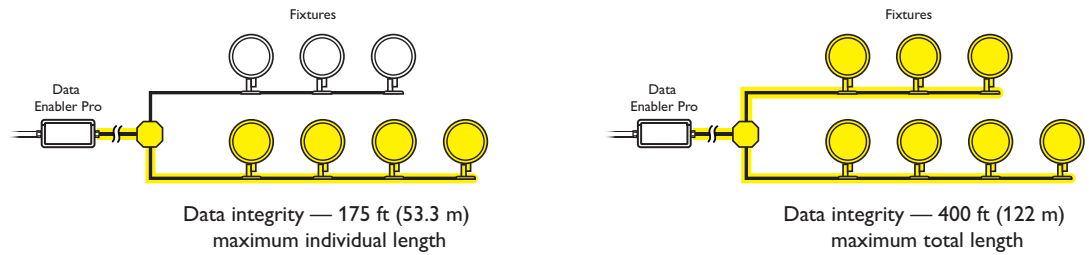
ColorBurst Powercore
46 @ 100 VAC
55 @ 120 VAC
77 @ 220 VAC
77 @ 240 VAC

ColorBurst Compact Powercore
45 @ 100 VAC
60 @ 120 VAC
77 @ 220 VAC
77 @ 240 VAC

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

✳ 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).



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

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 fixtures over a single fixture cable. Additional cabling is required to connect fixtures 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 4 in (102 mm) round US 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 manufacturer's literature for additional items required for mounting or sealing.)
- A 5/16 in or 8 mm hex wrench for fixture tilting and locking
- A 1/8 in or 3 mm hex wrench for fixture swiveling and locking

ColorBurst Powercore Landscape Installations

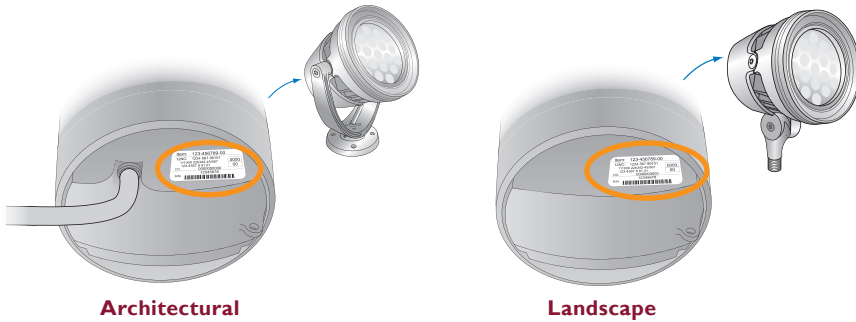
- The provided locking nut
- One electrical junction box or mounting accessory per fixture, rated for your application. (Refer to the junction box or accessory manufacturer's literature for specific information on mounting or sealing.)
- A 6 mm hex wrench for fixture tilting and locking
- A 33 mm wrench for locking fixtures 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 1/8 in hex wrench for installing ColorBlast Compact Powercore accessories

Unpack and Position Fixtures

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



2. Assign each fixture to a position in the lighting design plan.
3. 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.

Connecting and Mounting ColorBurst Powercore Architectural Fixtures

ColorBurst Powercore Architectural fixtures 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 fixtures.

Connecting ColorBurst Powercore Architectural Fixtures to Junction Boxes

1. 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.

Wiring between junction boxes must comply with local codes.

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

If installing fixtures in parallel, pull copper wire from a Data Enabler Pro to a common junction box, and from the common junction box to each fixture'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 fixture is 175 feet (53 m). When installing in parallel, the total cable length cannot exceed 400 feet (122 m).

Included in the box

ColorBurst Powercore Architectural

ColorBurst Powercore Architectural fixture

(4) 10-24 stainless steel screws for outdoor installation

Junction box gasket

Installation Instructions

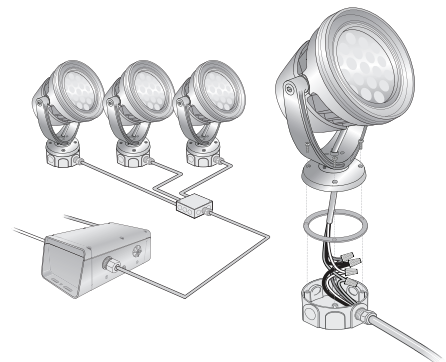
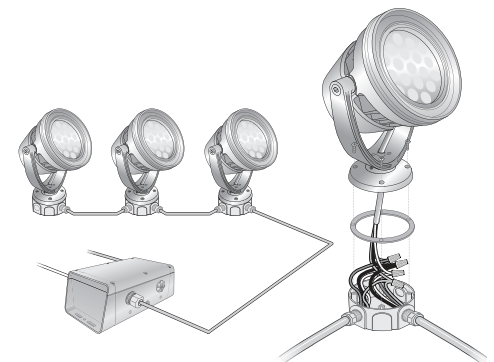
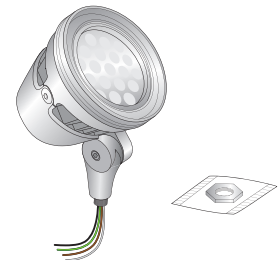


ColorBurst Powercore Landscape

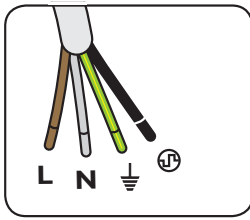
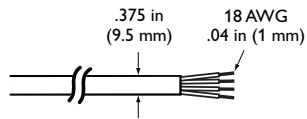
ColorBurst Powercore Landscape fixture

Locking nut

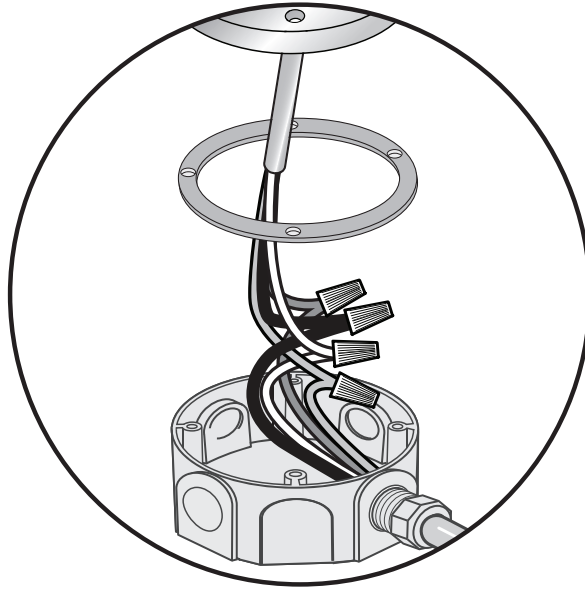
Installation Instructions



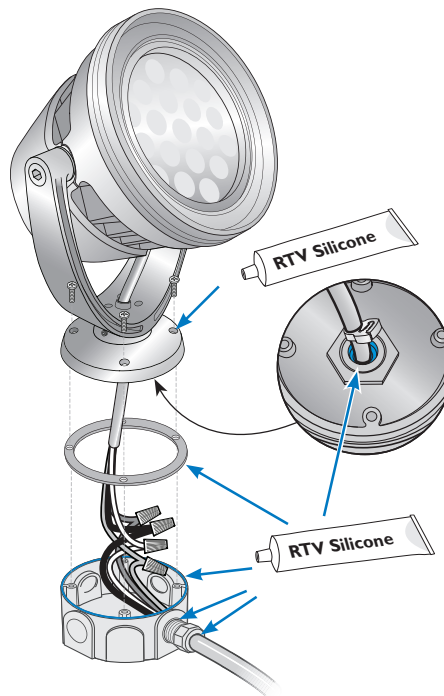
Leader Cable connector dimensions



3. Trim the cable from the fixture 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.



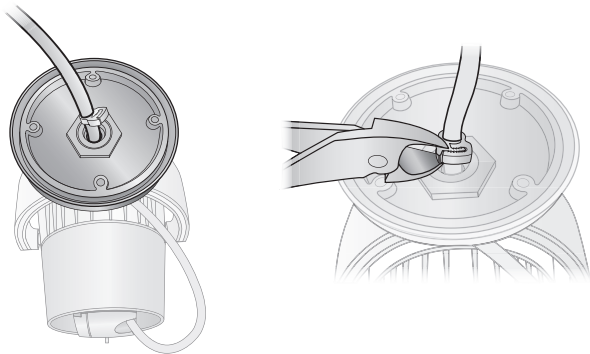
5. Tuck wire connections into the junction box.
6. Screw the fixture's canopy base into the junction box using the four included 10-24 stainless steel screws. If installing in a damp or wet location, seal all junction boxes with contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts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



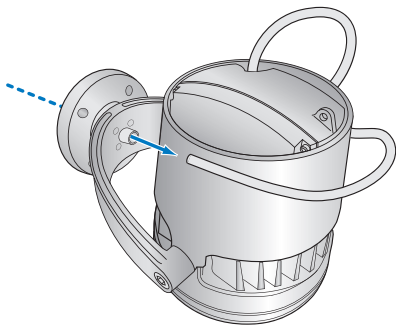
Surface-Mounting ColorBurst Powercore Architectural Fixtures

1. Prepare ColorBurst Powercore Architectural fixtures for surface-mounting:

- Remove the nylon cable clamp from the fixture's leader cable where it exits the underside of the canopy base.



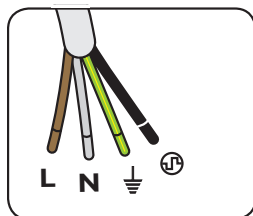
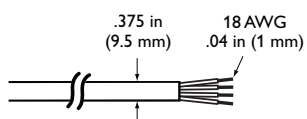
- Disengage the leader cable from the fixture's canopy base.



2. Mount junction boxes in accordance with the lighting design plan.
3. Position each ColorBurst Powercore Architectural fixture 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 fixture to the mounting location.



Leader Cable connector dimensions

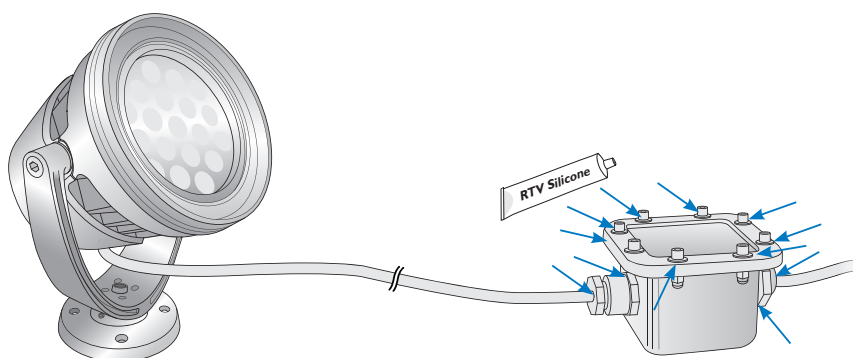


5. If installing fixtures in a series, pull copper wire between the junction boxes.

If installing fixtures 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 fixture is 175 feet (53 m). When installing in parallel, the total cable length cannot exceed 400 feet (122 m).

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 contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.



Connecting and Mounting ColorBurst Powercore Landscape Fixtures

ColorBurst Powercore Landscape fixtures feature a 1/2 in NPT threaded post for installing to standard junction boxes, stanchion mounts, posts, stakes, and other landscape mounting accessories.

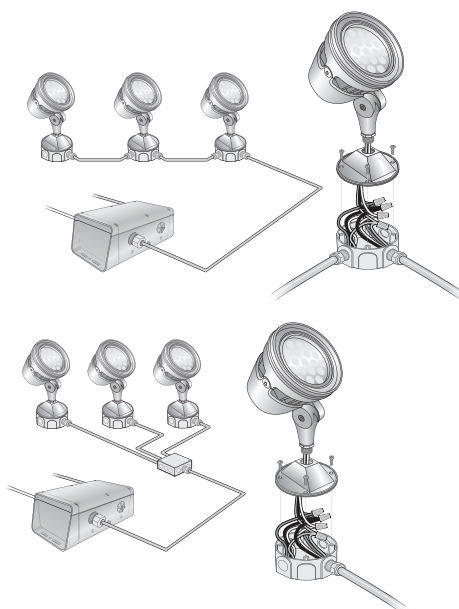
Make sure the power is OFF before mounting and connecting ColorBurst Powercore fixtures.

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

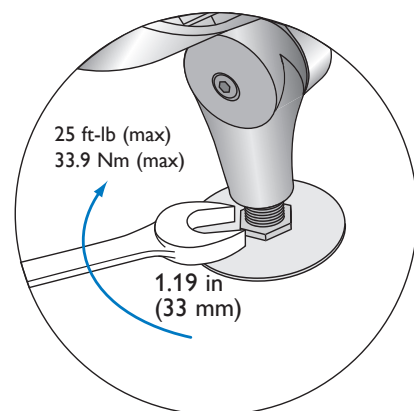
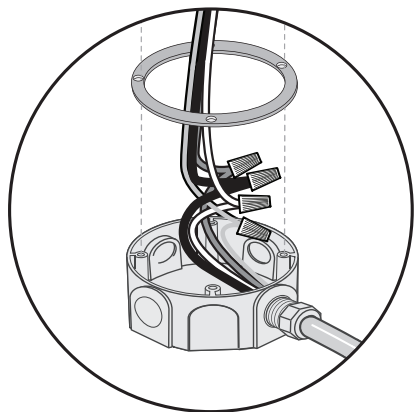
If installing fixtures in parallel, pull copper wire from a Data Enabler Pro to a common junction box, and from the common junction box to the fixtures.

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 fixture is 175 feet (53 m). When installing in parallel, the total cable length cannot exceed 400 feet (122 m).

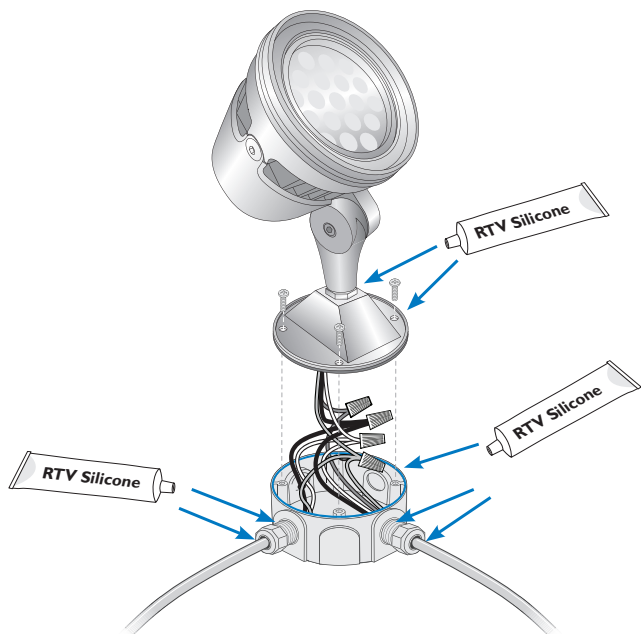
3. Thread the locking nut onto the ColorBurst Powercore Landscape threaded post.
4. Use wire nuts to connect line, neutral, ground, and data.
5. Tuck wire connections into the junction box or mounting accessory.



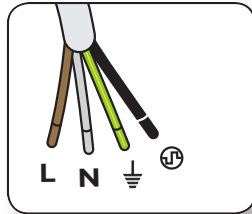
6. Using a 33 mm wrench, torque the locking nut to 25 ft-lb (33.9 Nm). Do not overtighten.



7. If installing in a damp or wet location, seal all junction boxes and mounting accessories with contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.

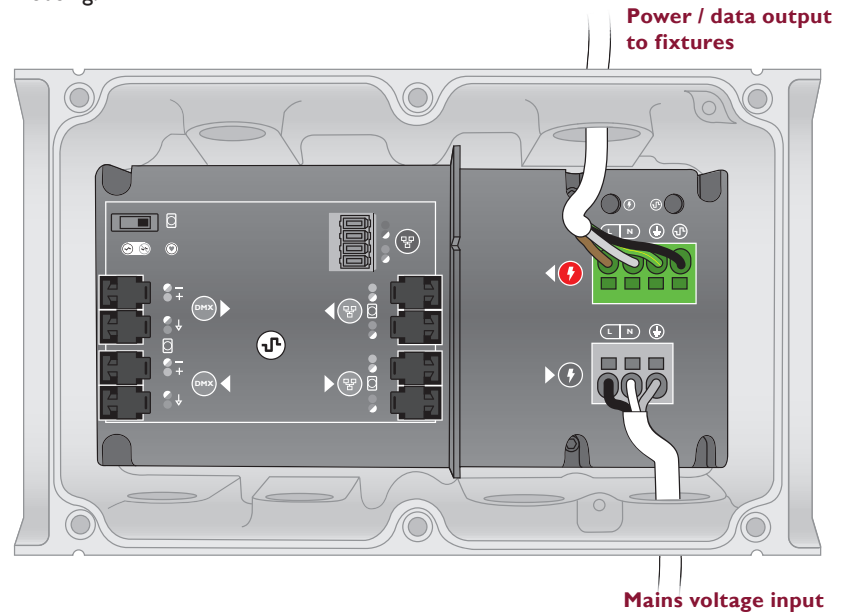


✳ Refer to the *Data Enabler Pro Product Guide* for comprehensive installation and configuration instructions. You can view or download the guide from www.colorkinetics.com/lspds/dataenablerpro



Connect Fixture Cable to Power

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



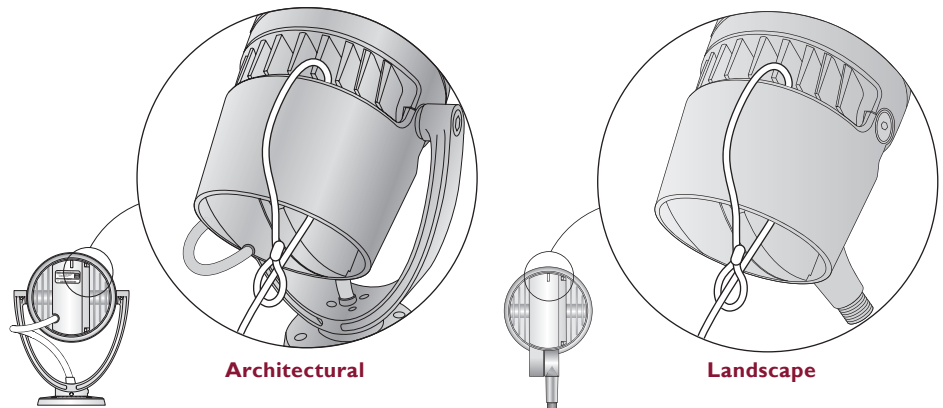
Attach Safety Cable (optional)

When installing ColorBurst Powercore fixtures 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 fixture housing and tether it to a secure anchor point.

Safety cable minimum requirements

Material	304 or 316 Stainless Steel
Size	5/32 in (4 mm) nominal diameter Minimum break load must be greater than 2,400 lb (1089 kg)

1. Thread a safety cable through the fixture housing as shown.



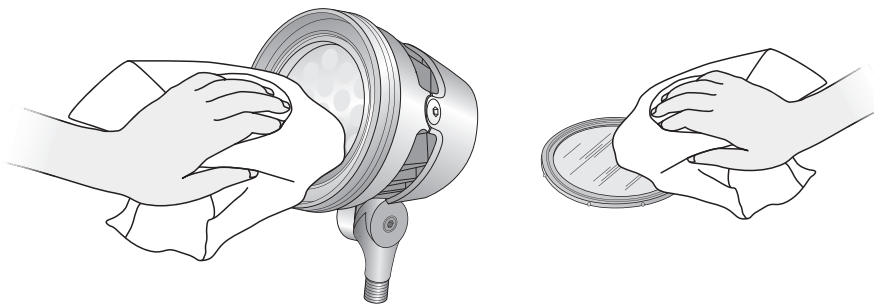
2. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.

Attach Accessories (Optional)

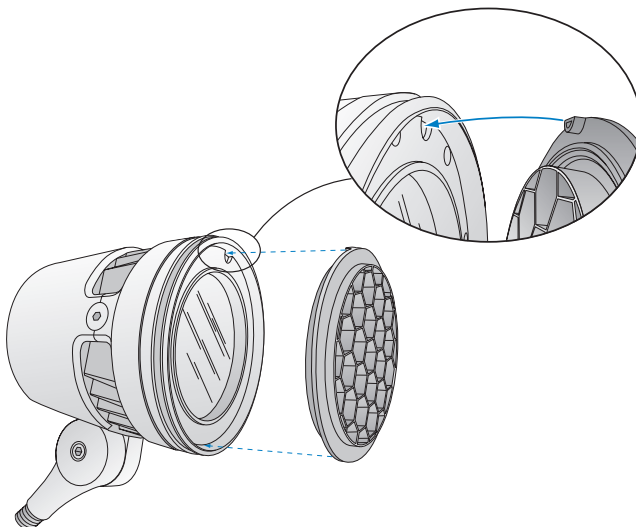
Honeycomb Louvers and exchangeable ColorBurst Powercore spread lenses of 14°, 23°, 41°, and an asymmetric 10° x 41° support a variety of photometric distributions for a multitude of applications.

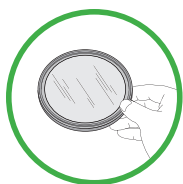
You attach Honeycomb Louvers and Spread Lenses with the Trim Ring, 45° Glare Shield, or Full Height Glare Shield, available separately. You can attach either one Honeycomb Louver or one Spread Lens at a time.

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.



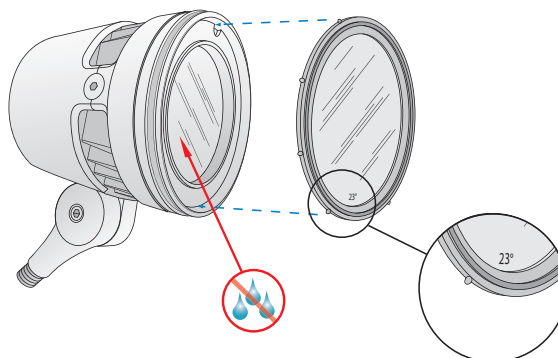
3. Position the honeycomb louver or spread lens:
 - If using the honeycomb louver, insert the tab on the honeycomb louver into the notch on the face of the ColorBurst Powercore fixture housing.



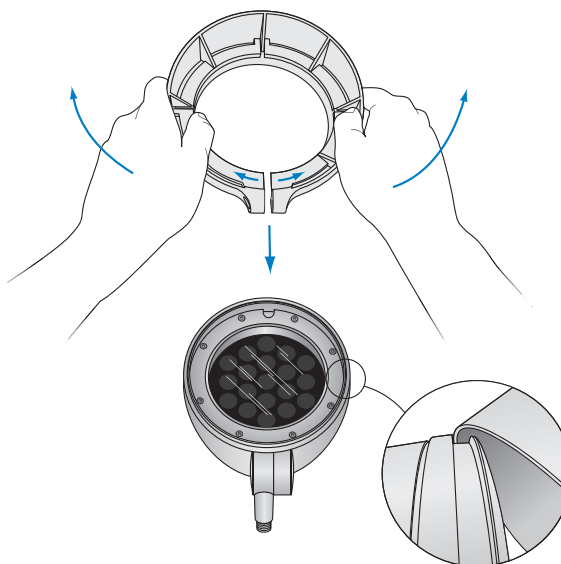


✳ Rotating the asymmetric 10° x 41° spread lens changes its effect on the fixture's light output. You may want to rough-in the spread lens position, fine-tune it when aiming and locking the fixture, then lock down the trim ring or glare shield once the lens is positioned to give the desired results.

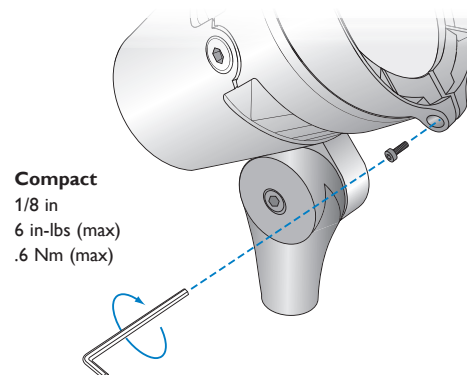
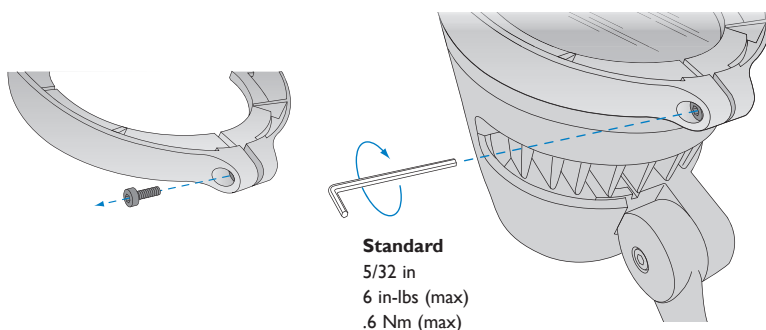
- If using a spread lens, make sure that the beam-angle designation on the edge of the lens is face up. Handle the spread lens by the gasket, making sure not to touch or soil either surface of the spread lens. Rest the lens against the face of the ColorBurst Powercore housing. Make sure that there is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



4. If necessary, use a 5/32 in hex wrench to remove the locking screw from the trim ring or glare shield.
5. Grab the trim ring or glare shield with both hands, flex it gently open, and clip it to the front rim of the fixture housing.



6. Insert the locking screw into the opening on the trim ring or glare shield. Use a 5/32 in hex wrench and torque to 6 in-lbs (.6 Nm). For ColorBurst Compact Powercore, use a 1/8 in hex wrench.



Address and Configure Fixtures

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

Each ColorBurst Powercore fixture uses three sequential DMX channels or addresses, one for red, one for green, and one for blue. ColorBurst Powercore fixtures come factory-addressed to DMX channels 1 (red), 2 (green), and 3 (blue).

For lighting designs where fixtures work in unison, all fixtures can be assigned the same DMX addresses. Changes to the default 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 colors on different fixtures, you must assign unique DMX addresses to your fixtures and sort them in a useful order.

- 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.
- 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.

For complete details on addressing and configuring fixtures, controllers, and power / data supplies with QuickPlay Pro, refer to the *Addressing and Configuration Guide*, which you can view or download at www.colorkinetics.com/support/addressing.

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

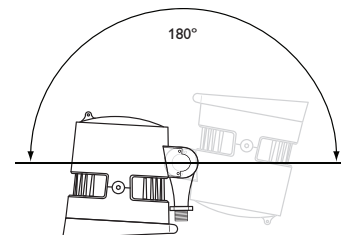
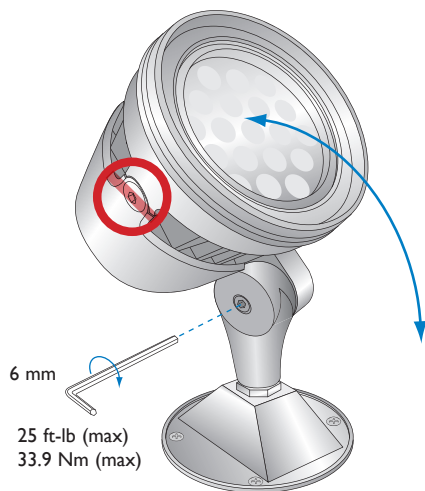
✳ You will need the layout grid that you created when you recorded the serial numbers of the light fixtures in your installation.

Aim and Lock Fixtures

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

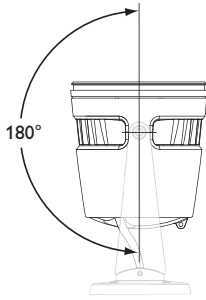
Aiming and Locking ColorBurst Powercore Landscape Fixtures

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

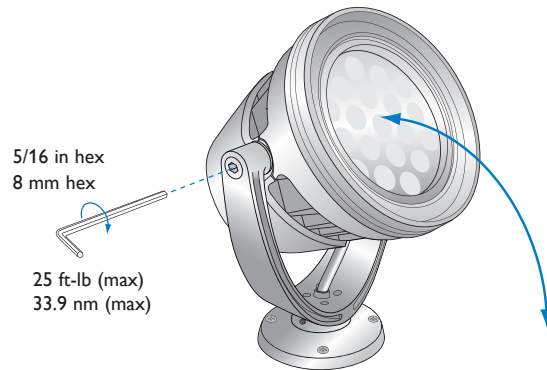


Aiming and Locking ColorBurst Powercore Architectural Fixtures

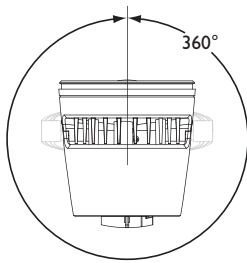
1. To tilt the beam:



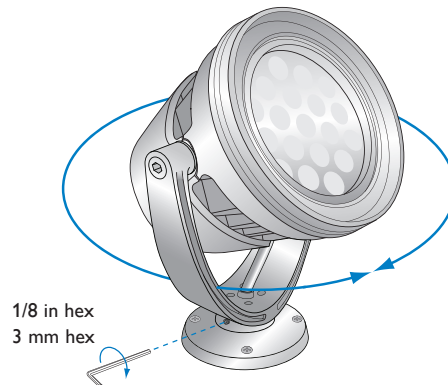
- Loosen the locking nuts on either side of the fixture yoke using a 5/16 in or 8 mm hex wrench.
- Tilt the beam as desired.
- Re-tighten the locking nuts to secure the fixture in place. Torque to 25 ft-lbs (33.9 Nm). Do not over-tighten.



2. To rotate the fixture:



- Loosen the locking nuts on either side of the fixture yoke's base using a 1/8 in or 3 mm hex wrench.
- Rotate the fixture as desired.
- Re-tighten the locking nuts to secure the fixture in place.





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