



ColorBlast Powercore gen4

Customizable exterior LED flood fixture with intelligent color light



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ColorBlast Powercore gen4 high-performance LED fixtures combine white and rich, saturated, color and color-changing effects with simplified installation. ColorBlast Powercore gen4 offers a range of accessories that allow for customizable beam angles for floodlighting, spotlighting, wall washing, and grazing, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminum housing.

- Expands customization with a wide range of new Philips accessory options. In addition to the native 10° lens, five different diffuser lenses can customize the fixture to produce 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric) beam angles. Three housing color choices (black, gray, and white)—plus the option to add or combine a louver, rock guard, full glare shield, and half glare shield—create new aesthetic possibilities for designers and architects.
- Improves color consistency between all LED fixtures in a family with Chromasync technology. During the manufacturing process a calibrated light measurement device creates an algorithm to define a common color gamut for an entire family of LED fixtures. When Chromasync is enabled, color consistency between fixtures is achieved without having to manually adjust color points on each fixture.
- Meets ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating.
- Features an innovative, redesigned optical system that improves the quality of light from each LED, enhancing the color uniformity and color mixing capabilities of each ColorBlast Powercore gen4 luminaire.
- Improves durability with new flat lens that prevents water from pooling into the fixture, keeping the LEDs protected and secure over the course of a luminaire's lifetime.
- Integrates patented Powercore technology that controls power output to fixtures directly from line voltage – rapidly, efficiently, and accurately. The Philips Color Kinetics Data Enabler Pro merges line voltage with control data and delivers them to fixtures over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Universal power input range of 100 – 277 VAC.
- Works seamlessly with the complete Philips Color Kinetics line of controllers, including ColorDial Pro, iPlayer 3, and Light System Manager—as well as third-party controllers.



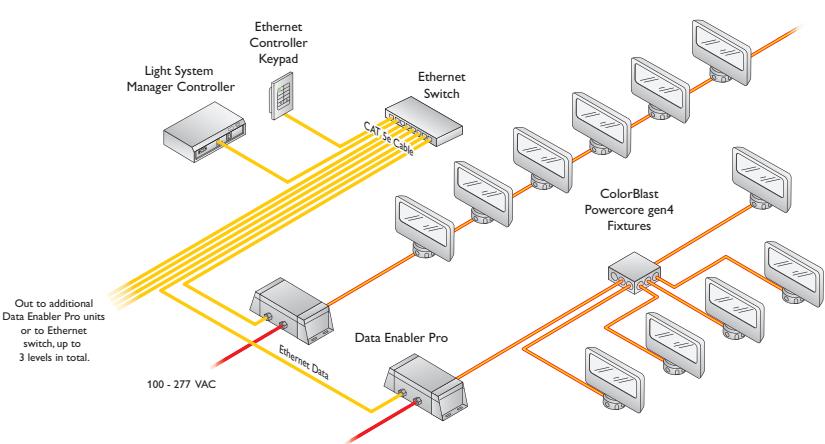
Outdoor Rated

Fully sealed for maximum fixture life and IP66 rated for outdoor applications, ColorBlast Powercore gen4 meets or exceeds specifications for use in wet locations. Rugged, die-cast aluminum housing is available in white, gray, or black powder-coated finish.

ColorBlast Powercore gen4 offers saturated, color-changing LED light, both indoors and outdoors. With its low-profile design, IP66-rated housing, multiple beam angles, and ease of installation and maintenance, ColorBlast Powercore gen4 is ideal for applications ranging from backlighting and display and signage lighting to floodlighting, façade- and wall-grazing, architectural detail highlighting, and artistic displays.

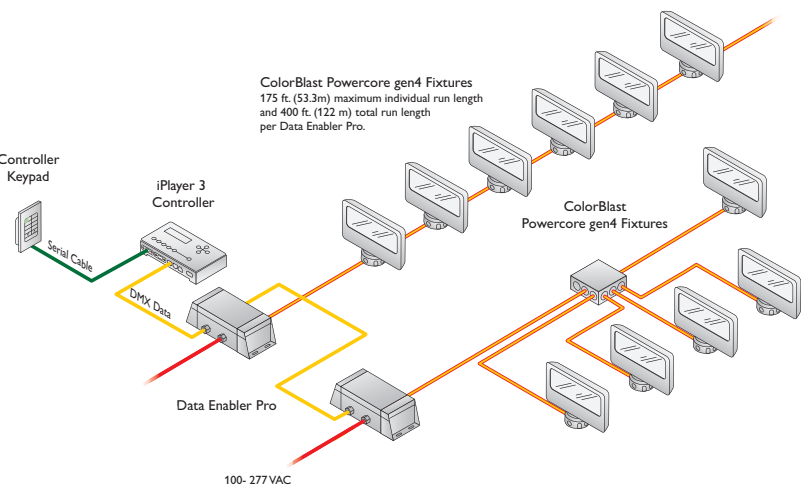
Philips offers a range of controllers to support installations from the simplest to the most complex. A simple application might use two ColorBlast Powercore gen4 fixtures with a ColorDial Pro controller to dramatically illuminate store window displays with pre-programmed color washes or fades. A larger installation might use Philips Color Kinetics iPlayer 3 controller and its ColorPlay 3 light show authoring software to run transformative and imaginative custom light shows on dozens of ColorBlast Powercore gen4 fixtures installed in multiple interior or exterior locations.

Philips Color Kinetics Light System Manager, an Ethernet-based integrated controller and light show authoring system, cost-effectively enables large-scale, complex, and intricately designed installations. The Big Four Bridge that runs over the Ohio River and connects Louisville, Kentucky to Jeffersonville, Indiana (shown on the cover) uses ColorBlast Powercore fixtures to wash the bridge architecture nightly with brilliant hues of slowly fading colors.



Large-scale Ethernet installation with Light System Manager

Large-scale installations may include multiple runs of ColorBlast Powercore gen4 fixtures controlled by Light System Manager. Each Data Enabler Pro supports a single run of fixtures, and connects to an available port on the Ethernet Switch.



Small-scale DMX installation with iPlayer 3

Small-scale installations may feature one or more runs of ColorBlast Powercore gen4 fixtures controlled by iPlayer 3. Data Enabler Pro devices can be connected in series to one or both DMX output ports on the iPlayer 3.

Regardless of the size and complexity of your installation, the planning time you spend up front can help streamline the installation and configuration of your fixtures. Keep these points in mind as you plan your installation:

- Create a lighting design plan that identifies and locates all fixtures, Data Enabler Pro devices, and controllers. Use this Product Guide and the online Configuration Calculator to determine whether to install fixtures in series or in parallel, how many fixtures you can install in a single run, and the maximum distances between Data Enabler Pro devices, fixtures, and controllers.
- To aid in addressing fixtures for color-changing light shows, record the serial number of each fixture as you assign it to your lighting design plan, and create a layout map that records the address or position of each fixture within a sequence of fixtures.
- Determine whether to address fixtures and configure your lighting system offline or interactively. With offline configuration, you stage and configure your system off-site, prior to installation. Offline configuration can be convenient when fixtures are to be installed in multiple locations or locations with difficult access. Interactive configuration is typically performed by an experienced technician, after fixtures have been installed. The interactive method can save time, since you connect and test your fixtures only once.

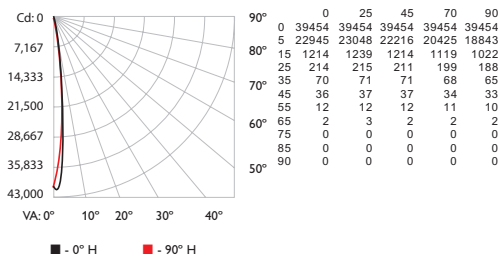
Photometrics

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

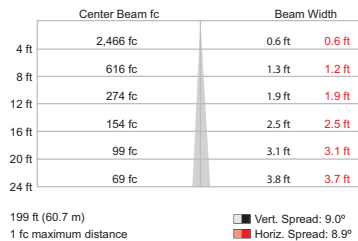
ColorBlast Powercore gen4 RGB, 10° native lens

Lumens	Efficacy
1,755	35.1

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,741.4	95.8%
0-40	1,780.8	98.0%
0-60	1,815.8	99.9%
0-90	1,817.9	100.0%
60-90	2.1	0.1%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,817.9	100.0%

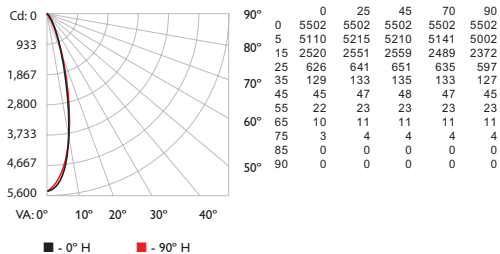
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80			70			50			30			10			0
	70	50	30	70	50	30	50	30	20	50	30	20	50	30	20	
RCR:	0	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	
1	1.16	1.14	1.13	1.11	1.14	1.12	1.11	1.09	1.07	1.06	1.04	1.04	1.03	1.01	1.01	
2	1.13	1.10	1.08	1.06	1.11	1.09	1.06	0.97	1.05	1.04	1.02	1.03	1.01	1.00	0.99	
3	1.11	1.07	1.04	1.02	1.09	1.06	1.03	0.96	1.03	1.01	0.99	1.01	0.99	0.98	0.96	
4	1.08	1.04	1.01	0.99	1.07	1.03	1.00	0.94	1.01	0.99	0.97	0.99	0.98	0.96	0.94	
5	1.06	1.02	0.99	0.96	1.05	1.01	0.98	0.93	0.99	0.97	0.95	0.98	0.96	0.94	0.93	
6	1.04	1.00	0.97	0.94	1.03	0.99	0.96	0.92	0.98	0.95	0.93	0.97	0.95	0.93	0.92	
7	1.03	0.98	0.95	0.93	1.02	0.97	0.95	0.91	0.96	0.94	0.92	0.96	0.93	0.92	0.91	
8	1.01	0.96	0.93	0.91	1.00	0.96	0.93	0.90	0.95	0.93	0.91	0.94	0.92	0.91	0.90	
9	1.00	0.95	0.92	0.90	0.99	0.95	0.92	0.89	0.94	0.91	0.90	0.93	0.91	0.89	0.89	
10	0.98	0.94	0.91	0.89	0.98	0.93	0.91	0.88	0.93	0.90	0.89	0.92	0.90	0.88	0.88	

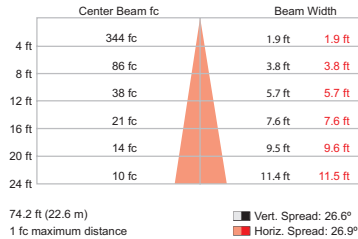
ColorBlast Powercore gen4 RGB, 20° diffuser lens

Lumens	Efficacy
1,488	29.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,347.4	90.5%
0-40	1,425.2	95.8%
0-60	1,476.0	99.2%
0-90	1,488.1	100.0%
60-90	12.1	0.8%
70-100	2.8	0.2%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,488.1	100.0%

Coefficients Of Utilization - Zonal Cavity Method

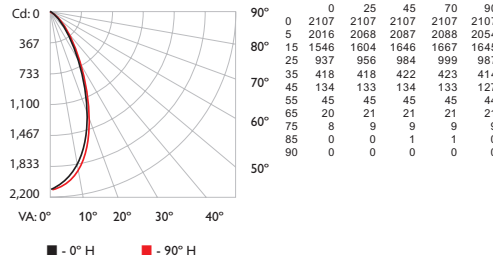
RCC %:	80			70			50			30			10			0
	70	50	30	70	50	30	50	30	20	50	30	20	50	30	20	
RCR:	0	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	
1	1.15	1.12	1.10	1.08	1.12	1.10	1.08	0.96	1.06	1.05	1.03	1.03	1.01	1.00	0.99	
2	1.10	1.06	1.03	1.00	1.08	1.05	1.02	0.92	1.02	0.99	0.97	0.99	0.97	0.95	0.93	
3	1.06	1.01	0.97	0.94	1.05	1.00	0.96	0.89	0.97	0.94	0.92	0.95	0.93	0.91	0.89	
4	1.03	0.97	0.92	0.89	1.01	0.96	0.92	0.85	0.94	0.90	0.88	0.92	0.89	0.87	0.86	
5	0.99	0.93	0.88	0.85	0.98	0.92	0.88	0.82	0.90	0.87	0.84	0.89	0.86	0.83	0.81	
6	0.96	0.89	0.84	0.81	0.95	0.88	0.84	0.79	0.87	0.83	0.80	0.86	0.82	0.80	0.78	
7	0.93	0.86	0.81	0.78	0.92	0.85	0.81	0.76	0.84	0.80	0.77	0.83	0.80	0.77	0.76	
8	0.90	0.83	0.78	0.75	0.89	0.82	0.78	0.74	0.81	0.77	0.75	0.80	0.77	0.74	0.73	
9	0.87	0.80	0.76	0.72	0.86	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.71	
10	0.85	0.77	0.73	0.70	0.84	0.77	0.73	0.69	0.76	0.73	0.70	0.76	0.72	0.70	0.69	

For lux multiply fc by 10.7

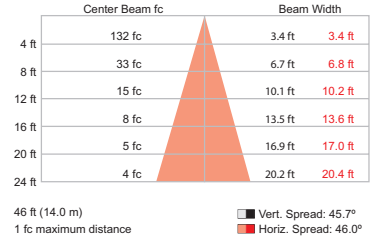
ColorBlast Powercore gen4 RGB, 40° diffuser lens

Lumens	Efficacy
1,466	29.3

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,056.9	72.1%
0-40	1,305.1	89.0%
0-60	1,439.3	98.2%
0-90	1,466.0	100.0%
60-90	26.7	1.8%
70-100	8.4	0.6%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,466.0	100.0%

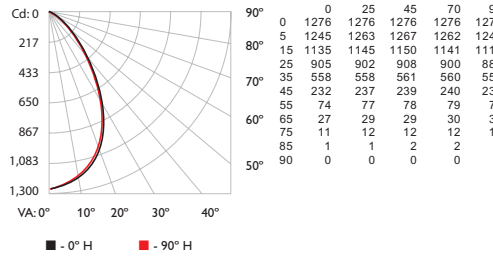
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80	70	50	30	10	0												
RW %:	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	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.11	1.08	1.06	1.11	1.08	1.06	0.94	1.04	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93
2	1.08	1.03	0.99	0.95	1.06	1.01	0.97	0.87	0.98	0.95	0.92	0.95	0.92	0.90	0.82	0.80	0.88	0.87
3	1.02	0.96	0.91	0.87	1.00	0.94	0.90	0.82	0.92	0.88	0.85	0.89	0.86	0.83	0.87	0.84	0.82	0.81
4	0.97	0.90	0.84	0.80	0.95	0.88	0.83	0.76	0.86	0.82	0.78	0.84	0.81	0.78	0.82	0.79	0.77	0.75
5	0.92	0.84	0.78	0.74	0.91	0.83	0.78	0.71	0.81	0.77	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.70
6	0.88	0.79	0.73	0.69	0.86	0.78	0.73	0.67	0.77	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.66
7	0.84	0.75	0.69	0.64	0.82	0.74	0.68	0.63	0.73	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.62
8	0.80	0.70	0.65	0.60	0.79	0.70	0.64	0.59	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.58
9	0.76	0.67	0.61	0.57	0.75	0.66	0.61	0.56	0.65	0.60	0.57	0.64	0.60	0.56	0.64	0.59	0.56	0.55
10	0.73	0.63	0.58	0.54	0.72	0.63	0.57	0.53	0.62	0.57	0.54	0.61	0.57	0.53	0.61	0.56	0.53	0.52

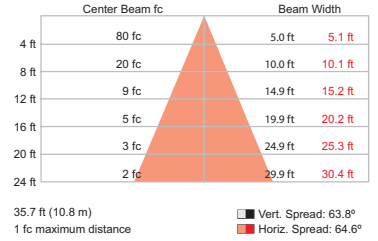
ColorBlast Powercore gen4 RGB, 60° diffuser lens

Lumens	Efficacy
1,461	29.3

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	854.5	58.5%
0-40	1,189.5	81.4%
0-60	1,423.0	97.4%
0-90	1,461.4	100.0%
60-90	38.4	2.6%
70-100	12.4	0.8%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,461.4	100.0%

Coefficients Of Utilization - Zonal Cavity Method

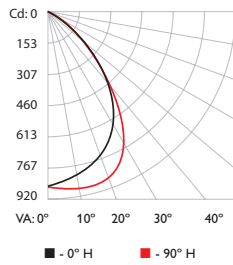
RCC %:	80	70	50	30	10	0												
RW %:	70	50	30	0	50	30	20	50	30	20	0							
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	
1	1.12	1.09	1.06	1.03	1.09	1.06	1.04	0.91	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.92	0.90
2	1.05	0.99	0.94	0.89	1.02	0.97	0.92	0.82	0.93	0.90	0.86	0.90	0.87	0.84	0.87	0.85	0.83	0.81
3	0.98	0.90	0.83	0.78	0.95	0.88	0.82	0.73	0.85	0.81	0.77	0.83	0.79	0.75	0.80	0.77	0.74	0.72
4	0.91	0.82	0.75	0.70	0.89	0.81	0.74	0.66	0.78	0.73	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.65
5	0.85	0.75	0.68	0.62	0.83	0.74	0.67	0.60	0.72	0.66	0.61	0.70	0.65	0.61	0.68	0.64	0.60	0.58
6	0.80	0.69	0.61	0.56	0.78	0.68	0.61	0.54	0.66	0.60	0.55	0.65	0.59	0.55	0.63	0.59	0.55	0.53
7	0.75	0.63	0.56	0.51	0.73	0.63	0.56	0.50	0.61	0.55	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.48
8	0.70	0.59	0.51	0.46	0.69	0.58	0.51	0.45	0.57	0.50	0.46	0.56	0.50	0.46	0.55	0.49	0.46	0.44
9	0.66	0.54	0.47	0.43	0.65	0.54	0.47	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.40
10	0.62	0.51	0.44	0.39	0.61	0.50	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39	0.48	0.42	0.39	0.37

For lux multiply fc by 10.7

ColorBlast Powercore gen4 RGB, 80° diffuser lens

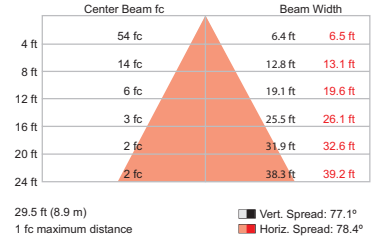
Lumens	Efficacy
1,444	28.9

Polar Candela Distribution



Cd: 0	25	45	70	90
0	867	867	867	867
5	838	863	875	881
15	783	822	850	878
25	704	738	776	814
35	558	574	593	617
45	339	340	333	325
55	155	147	132	116
65	58	53	47	40
75	20	19	17	15
85	3	3	3	2
90	0	0	0	0

Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	669.6	46.4%
0-40	1,029.7	71.3%
0-60	1,382.3	95.7%
0-90	1,444.2	100.0%
60-90	61.9	4.3%
70-100	18.9	1.3%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,444.2	100.0%

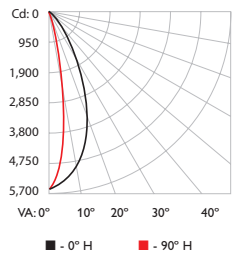
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80				70				50				30				10				0			
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0	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	1.00	1.00	1.00		
	1	1.12	1.09	1.06	1.03	1.09	1.06	1.04	0.91	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.92	0.90	0.88	0.87	0.86		
	2	1.05	0.99	0.94	0.89	1.02	0.97	0.92	0.82	0.93	0.90	0.86	0.90	0.87	0.84	0.87	0.85	0.83	0.81	0.80	0.77	0.74		
	3	0.98	0.90	0.83	0.78	0.95	0.88	0.82	0.73	0.85	0.81	0.77	0.83	0.79	0.75	0.80	0.77	0.74	0.72	0.70	0.67	0.65		
	4	0.91	0.82	0.75	0.70	0.89	0.81	0.74	0.66	0.78	0.73	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.65	0.64	0.60	0.58		
	5	0.85	0.75	0.68	0.62	0.83	0.74	0.67	0.60	0.72	0.66	0.61	0.70	0.65	0.61	0.68	0.64	0.60	0.58	0.56	0.53	0.53		
	6	0.80	0.69	0.61	0.56	0.78	0.68	0.61	0.54	0.66	0.60	0.55	0.65	0.59	0.55	0.63	0.58	0.55	0.53	0.51	0.48	0.48		
	7	0.75	0.63	0.56	0.51	0.73	0.63	0.56	0.50	0.61	0.55	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.48	0.46	0.44	0.44		
	8	0.70	0.59	0.51	0.46	0.69	0.58	0.51	0.45	0.57	0.50	0.46	0.56	0.50	0.46	0.55	0.49	0.46	0.44	0.42	0.40	0.40		
	9	0.66	0.54	0.47	0.43	0.65	0.54	0.47	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.40	0.38	0.36	0.36		
	10	0.62	0.51	0.44	0.39	0.61	0.50	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39	0.48	0.42	0.39	0.37	0.35	0.34	0.34		

ColorBlast Powercore gen4 RGB, 10° x 40° asymmetric lens

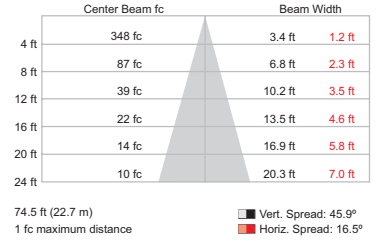
Lumens	Efficacy
1,583	31.7

Polar Candela Distribution



Cd: 0	25	45	70	90
0	5567	5567	5567	5567
5	5363	5210	4902	4624
15	4219	3201	1815	991
25	2445	1293	426	187
35	923	380	127	69
45	236	112	56	35
55	66	47	30	18
65	28	24	16	8
75	12	10	6	2
85	0	0	0	0
90	0	0	0	0

Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,336.3	84.4%
0-40	1,482.8	93.6%
0-60	1,564.6	98.8%
0-90	1,583.4	100.0%
60-90	18.8	1.2%
70-100	5.4	0.3%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,583.4	100.0%

Coefficients Of Utilization - Zonal Cavity Method

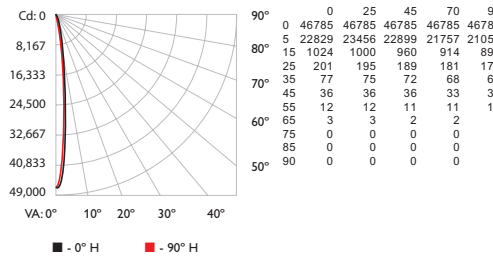
RCC %:	80				70				50				30				10				0			
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0	50	30	20	0		
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	1.00			
	1	1.14	1.12	1.10	1.08	1.12	1.10	1.08	0.95	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95	0.93	0.92	0.91		
	2	1.10	1.05	1.02	0.99	1.07	1.04	1.01	0.91	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.90	0.88	0.87	0.86		
	3	1.05	1.00	0.95	0.92	1.03	0.98	0.94	0.87	0.96	0.93	0.90	0.93	0.91	0.88	0.91	0.89	0.87	0.86	0.85	0.83	0.82		
	4	1.01	0.95	0.90	0.86	0.99	0.94	0.89	0.83	0.92	0.88	0.85	0.90	0.86	0.84	0.88	0.85	0.83	0.82	0.81	0.78	0.78		
	5	0.97	0.90	0.85	0.82	0.96	0.89	0.85	0.79	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.79	0.78	0.76	0.75	0.75		
	6	0.94	0.86	0.81	0.78	0.92	0.85	0.81	0.76	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.75	0.73	0.72	0.72		
	7	0.90	0.82	0.78	0.74	0.89	0.82	0.77	0.73	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.72	0.70	0.69	0.69		
	8	0.87	0.79	0.74	0.71	0.86	0.79	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.69	0.68	0.67	0.67		
	9	0.84	0.76	0.71	0.68	0.83	0.76	0.71	0.67	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.66	0.65	0.64	0.64		
	10	0.81	0.73	0.69	0.65	0.80	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.64	0.63	0.63	0.63		

For lux multiply fc by 10.7

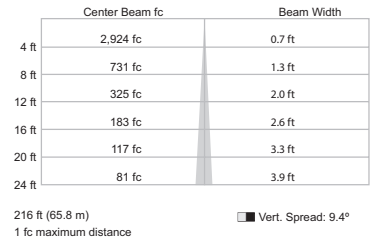
ColorBlast Powercore gen4 RGBA, 10° native lens

Lumens	Efficacy
1,852	35

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,899.5	95.7%
0-40	1,945.1	98.0%
0-60	1,981.8	99.9%
0-90	1,984.1	100.0%
60-90	2.4	0.1%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,984.1	100.0%

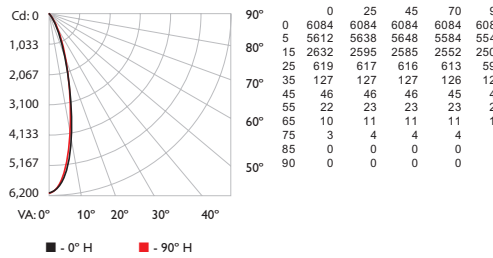
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80				70				50				30				10				0
	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	1.16	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	0.99	1.06	1.07	1.06	1.05	1.04	1.03	1.01	1.01	0.99			
	2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	0.97	1.06	1.04	1.03	1.03	1.02	1.00	1.00	0.98	0.97			
	3	1.11	1.07	1.04	1.02	1.09	1.06	1.03	0.96	1.03	1.01	1.01	1.01	1.00	0.98	0.99	0.98	0.97			
	4	1.09	1.04	1.01	0.99	1.07	1.03	1.01	0.95	1.02	0.99	0.97	1.00	0.98	0.96	0.98	0.97	0.95			
	5	1.07	1.02	0.99	0.97	1.05	1.01	0.98	0.94	1.00	0.97	0.96	0.98	0.96	0.95	0.97	0.95	0.94			
	6	1.05	1.00	0.97	0.95	1.04	1.00	0.97	0.93	0.98	0.96	0.94	0.97	0.95	0.93	0.96	0.94	0.93			
	7	1.03	0.98	0.95	0.93	1.02	0.98	0.95	0.92	0.97	0.95	0.93	0.96	0.94	0.92	0.95	0.93	0.92			
	8	1.02	0.97	0.94	0.92	1.01	0.97	0.94	0.91	0.96	0.93	0.92	0.95	0.93	0.91	0.94	0.92	0.91			
	9	1.00	0.96	0.93	0.91	1.00	0.95	0.93	0.90	0.95	0.92	0.91	0.94	0.92	0.90	0.93	0.91	0.89			
	10	0.99	0.94	0.92	0.90	0.98	0.94	0.92	0.89	0.94	0.91	0.90	0.93	0.91	0.89	0.93	0.91	0.89			

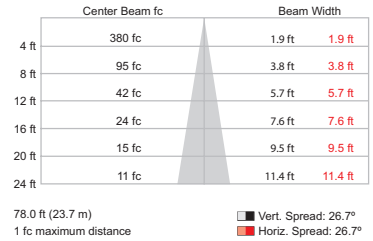
ColorBlast Powercore gen4 RGBA, 20° diffuser lens

Lumens	Efficacy
1,591	30.1

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,476.2	90.8%
0-40	1,558.2	95.9%
0-60	1,612.6	99.2%
0-90	1,625.6	100.0%
60-90	13.0	0.8%
70-100	3.1	0.2%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,625.6	100.0%

Coefficients Of Utilization - Zonal Cavity Method

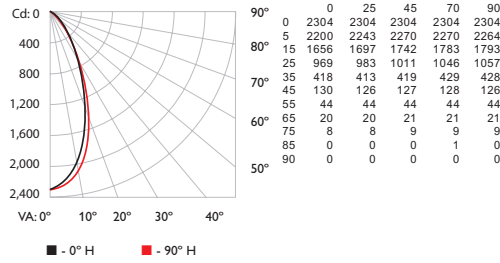
RCC %:	80				70				50				30				10				0
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0			
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00			
	1	1.15	1.12	1.10	1.08	1.12	1.10	1.08	0.96	1.06	1.05	1.04	1.03	1.01	1.00	0.99	0.98	0.96			
	2	1.10	1.07	1.03	1.01	1.08	1.05	1.02	0.92	1.02	0.99	0.97	0.99	0.97	0.95	0.96	0.95	0.93			
	3	1.06	1.01	0.97	0.94	1.05	1.00	0.96	0.89	0.98	0.95	0.92	0.95	0.93	0.91	0.93	0.91	0.88			
	4	1.03	0.97	0.93	0.89	1.01	0.96	0.92	0.85	0.94	0.90	0.88	0.92	0.89	0.87	0.90	0.88	0.86			
	5	0.99	0.93	0.88	0.85	0.98	0.92	0.88	0.82	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.85	0.83			
	6	0.96	0.89	0.85	0.81	0.95	0.89	0.84	0.79	0.87	0.83	0.81	0.86	0.83	0.80	0.85	0.82	0.80			
	7	0.93	0.86	0.81	0.78	0.92	0.85	0.81	0.77	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.78	0.77			
	8	0.90	0.83	0.78	0.75	0.89	0.82	0.78	0.74	0.81	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74			
	9	0.87	0.80	0.76	0.73	0.87	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72			
	10	0.85	0.78	0.73	0.70	0.84	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70			

For lux multiply fc by 10.7

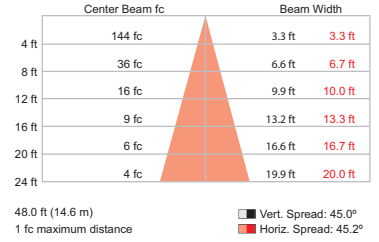
ColorBlast Powercore gen4 RGBA, 40° diffuser lens

Lumens	Efficacy
1,563	29.4

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,138.1	72.8%
0-40	1,397.7	89.5%
0-60	1,534.3	98.2%
0-90	1,562.5	100.0%
60-90	28.2	1.8%
70-100	9.0	0.6%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,562.5	100.0%

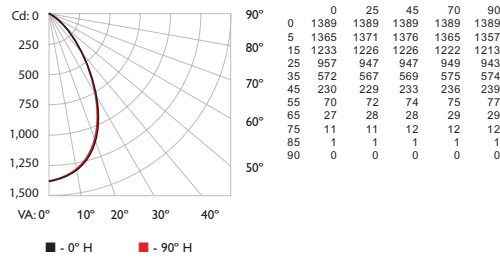
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80				70				50				30				10				20%
	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	1.13	1.11	1.09	1.06	1.11	1.08	1.06	0.94	1.04	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93		
	2	1.08	1.03	0.99	0.95	1.06	1.01	0.98	0.88	0.98	0.95	0.92	0.95	0.93	0.90	0.92	0.90	0.88	0.87		
	3	1.02	0.96	0.91	0.87	1.00	0.95	0.90	0.82	0.92	0.88	0.85	0.90	0.86	0.84	0.87	0.85	0.82	0.81		
	4	0.97	0.90	0.84	0.80	0.96	0.89	0.84	0.76	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.75		
	5	0.93	0.84	0.79	0.74	0.91	0.83	0.78	0.72	0.82	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.71		
	6	0.88	0.79	0.73	0.69	0.87	0.79	0.73	0.67	0.77	0.72	0.68	0.76	0.71	0.68	0.74	0.71	0.68	0.66		
	7	0.84	0.75	0.69	0.65	0.83	0.74	0.69	0.63	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.62		
	8	0.80	0.71	0.65	0.61	0.79	0.70	0.65	0.60	0.69	0.64	0.60	0.68	0.64	0.60	0.67	0.63	0.60	0.59		
	9	0.77	0.67	0.61	0.57	0.75	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.55		
	10	0.73	0.64	0.58	0.54	0.72	0.63	0.58	0.54	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.52		

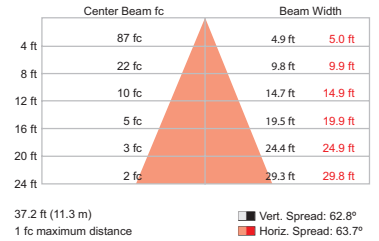
ColorBlast Powercore gen4 RGBA, 60° diffuser lens

Lumens	Efficacy
1,557	28.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	921.9	59.2%
0-40	1,277.2	82.0%
0-60	1,517.7	97.5%
0-90	1,557.0	100.0%
60-90	39.3	2.5%
70-100	12.7	0.8%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,557.0	100.0%

Coefficients Of Utilization - Zonal Cavity Method

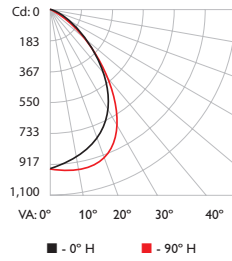
RCC %:	80				70				50				30				10				20%
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0			
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00		
	1	1.13	1.10	1.07	1.04	1.10	1.07	1.05	0.92	1.03	1.01	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.92		
	2	1.06	1.01	0.96	0.93	1.04	0.99	0.95	0.85	0.96	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.84		
	3	1.00	0.93	0.87	0.83	0.98	0.92	0.86	0.78	0.89	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.78	0.77		
	4	0.94	0.86	0.80	0.75	0.92	0.85	0.79	0.71	0.82	0.78	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.70		
	5	0.89	0.80	0.73	0.68	0.87	0.79	0.73	0.66	0.77	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.65		
	6	0.84	0.74	0.67	0.63	0.82	0.73	0.67	0.61	0.72	0.66	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.59		
	7	0.79	0.69	0.62	0.58	0.78	0.68	0.62	0.56	0.67	0.61	0.57	0.66	0.61	0.57	0.64	0.60	0.57	0.55		
	8	0.75	0.64	0.58	0.53	0.74	0.64	0.58	0.52	0.63	0.57	0.53	0.62	0.56	0.53	0.61	0.56	0.53	0.51		
	9	0.71	0.60	0.54	0.50	0.70	0.60	0.54	0.49	0.59	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.47		
	10	0.67	0.57	0.50	0.46	0.66	0.56	0.50	0.46	0.55	0.50	0.46	0.55	0.49	0.46	0.54	0.49	0.46	0.44		

For lux multiply fc by 10.7

ColorBlast Powercore gen4 RGBA, 80° diffuser lens

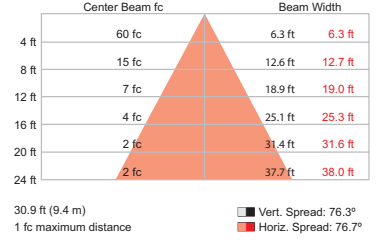
Lumens	Efficacy
1,532	28.9

Polar Candela Distribution



90°	0	25	45	70	90
0	952	952	952	952	952
5	926	947	962	965	965
15	849	884	915	948	962
25	749	778	814	857	880
35	578	590	606	636	653
45	340	338	333	324	323
55	151	141	126	111	104
65	56	51	45	38	37
75	19	18	17	15	15
85	2	2	2	2	2
90	0	0	0	0	0

Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	723.5	47.2%
0-40	1,104.8	72.1%
0-60	1,469.5	95.9%
0-90	1,532.4	100.0%
60-90	62.9	4.1%
70-100	19.4	1.3%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,532.4	100.0%

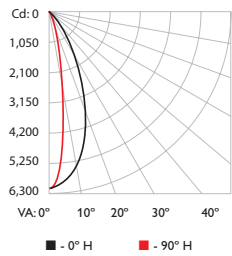
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80	70	50	30	10	0													
RW %:	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	1.12	1.09	1.06	1.03	1.10	1.06	1.04	0.91	1.02	1.00	0.98	0.99	0.97	0.95	0.95	0.94	0.92	0.91	
2	1.05	0.99	0.94	0.90	1.02	0.97	0.92	0.82	0.94	0.90	0.87	0.91	0.87	0.85	0.88	0.85	0.83	0.81	
3	0.98	0.90	0.84	0.79	0.96	0.88	0.83	0.74	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.77	0.74	0.73	
4	0.91	0.82	0.75	0.70	0.89	0.81	0.74	0.67	0.79	0.73	0.69	0.76	0.72	0.68	0.74	0.70	0.67	0.65	
5	0.85	0.75	0.68	0.63	0.84	0.74	0.67	0.60	0.72	0.66	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.59	
6	0.80	0.69	0.62	0.57	0.78	0.68	0.61	0.55	0.67	0.60	0.56	0.65	0.60	0.56	0.64	0.59	0.55	0.53	
7	0.75	0.64	0.56	0.51	0.73	0.63	0.56	0.50	0.62	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.50	0.49	
8	0.70	0.59	0.52	0.47	0.69	0.58	0.52	0.46	0.57	0.51	0.47	0.56	0.50	0.46	0.55	0.50	0.46	0.44	
9	0.66	0.55	0.48	0.43	0.65	0.54	0.48	0.42	0.53	0.47	0.43	0.52	0.47	0.43	0.51	0.46	0.42	0.41	
10	0.63	0.51	0.44	0.40	0.61	0.51	0.44	0.39	0.50	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39	0.38	

ColorBlast Powercore gen4 RGBA, 10° x 40° asymmetric lens

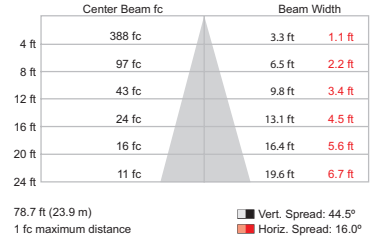
Lumens	Efficacy
1,655	31.2

Polar Candela Distribution



90°	0	25	45	70	90
0	6207	6207	6207	6207	6207
5	5954	5697	5280	4910	4811
15	4595	3345	1797	933	763
25	2520	1258	389	175	144
35	883	341	117	65	55
45	214	101	52	32	26
55	63	43	27	15	11
65	26	20	13	5	4
75	9	6	3	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,417.5	85.6%
0-40	1,562.4	94.4%
0-60	1,640.9	99.2%
0-90	1,655.0	100.0%
60-90	14.0	0.8%
70-100	2.9	0.2%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,655.0	100.0%

Coefficients Of Utilization - Zonal Cavity Method

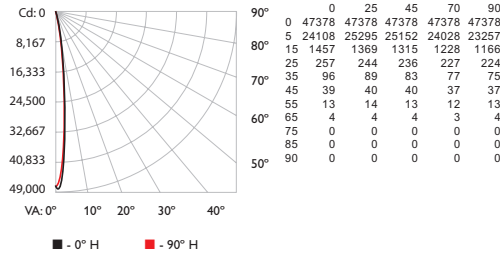
RCC %:	80	70	50	30	10	0													
RW %:	70	50	30	0	50	30	20	50	30	20	0								
RCR:	0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.12	1.10	1.08	1.12	1.10	1.08	0.96	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95	
2	1.10	1.06	1.02	0.99	1.08	1.04	1.01	0.91	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.94	0.92	0.91	
3	1.06	1.00	0.96	0.93	1.04	0.99	0.95	0.87	0.96	0.93	0.91	0.94	0.91	0.89	0.92	0.90	0.88	0.86	
4	1.02	0.95	0.91	0.87	1.00	0.94	0.90	0.83	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.82	
5	0.98	0.91	0.86	0.83	0.96	0.90	0.86	0.80	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.79	
6	0.94	0.87	0.82	0.79	0.93	0.86	0.82	0.77	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.76	
7	0.91	0.83	0.78	0.75	0.90	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73	
8	0.88	0.80	0.75	0.72	0.87	0.80	0.75	0.71	0.79	0.74	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.70	
9	0.85	0.77	0.72	0.69	0.84	0.77	0.72	0.68	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67	
10	0.82	0.74	0.70	0.67	0.81	0.74	0.70	0.66	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.65	

For lux multiply fc by 10.7

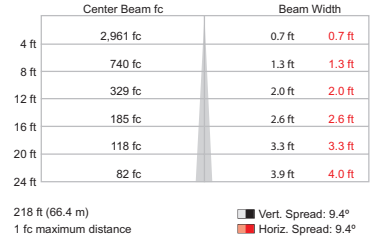
ColorBlast Powercore gen4 RGBW, 10° native lens

Lumens	Efficacy
2,162	40.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	2,112.7	95.6%
0-40	2,165.4	98.0%
0-60	2,206.5	99.8%
0-90	2,210.0	100.0%
60-90	3.5	0.2%
70-100	0.2	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	2,210.0	100.0%

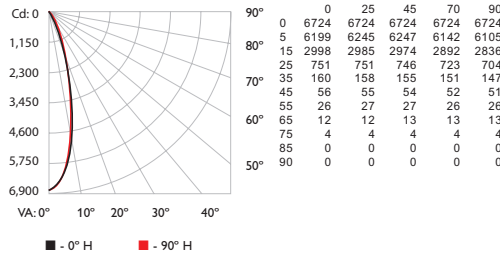
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80				70				Effective Floor Cavity Reflectance: 20%										
	70	50	30	0	70	50	30	0	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	0.99	1.08	1.07	1.06	1.04	1.04	1.03	1.01	1.01	1.00	0.98	0.98
2	1.13	1.10	1.08	1.06	1.11	1.08	1.06	0.97	1.05	1.04	1.02	1.03	1.01	1.00	1.00	0.99	0.98	0.97	0.97
3	1.10	1.07	1.04	1.02	1.09	1.05	1.03	0.96	1.03	1.01	0.99	1.01	0.99	0.98	0.99	0.97	0.96	0.95	0.95
4	1.08	1.04	1.01	0.98	1.07	1.03	1.00	0.94	1.01	0.99	0.97	0.99	0.97	0.96	0.98	0.96	0.95	0.94	0.94
5	1.06	1.02	0.98	0.96	1.05	1.01	0.98	0.93	0.99	0.97	0.95	0.98	0.96	0.94	0.97	0.95	0.93	0.92	0.92
6	1.04	0.99	0.96	0.94	1.03	0.99	0.96	0.92	0.98	0.95	0.93	0.96	0.94	0.93	0.95	0.94	0.92	0.91	0.91
7	1.02	0.98	0.95	0.92	1.02	0.97	0.94	0.91	0.96	0.94	0.92	0.95	0.93	0.91	0.94	0.92	0.91	0.90	0.89
8	1.01	0.96	0.93	0.91	1.00	0.96	0.93	0.90	0.95	0.92	0.90	0.94	0.92	0.90	0.93	0.91	0.90	0.89	0.89
9	0.99	0.95	0.92	0.90	0.99	0.94	0.92	0.89	0.94	0.91	0.89	0.93	0.91	0.89	0.92	0.90	0.89	0.88	0.88
10	0.98	0.93	0.91	0.89	0.98	0.93	0.90	0.88	0.92	0.90	0.88	0.92	0.90	0.88	0.91	0.89	0.88	0.87	0.87

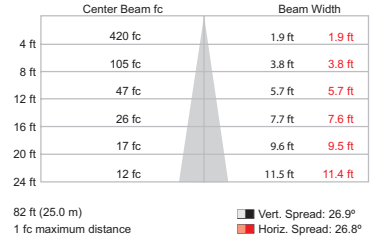
ColorBlast Powercore gen4 RGBW, 20° diffuser lens

Lumens	Efficacy
1,846	34.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,668.7	90.4%
0-40	1,767.6	95.8%
0-60	1,831.0	99.2%
0-90	1,846.0	100.0%
60-90	15.0	0.8%
70-100	3.5	0.2%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,846.0	100.0%

Coefficients Of Utilization - Zonal Cavity Method

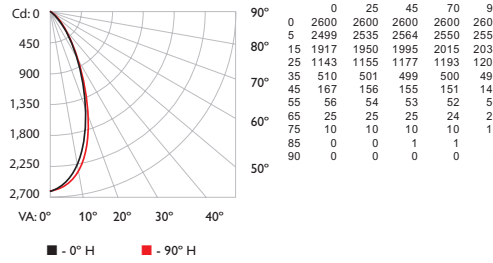
RCC %:	80				70				Effective Floor Cavity Reflectance: 20%									
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0			
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.10	1.08	1.12	1.10	1.08	0.96	1.06	1.05	1.03	1.03	1.01	1.00	0.99	0.98	0.97	0.96
2	1.10	1.06	1.03	1.00	1.08	1.05	1.02	0.92	1.02	0.99	0.97	0.99	0.97	0.95	0.96	0.95	0.93	0.92
3	1.06	1.01	0.97	0.94	1.05	1.00	0.96	0.89	0.97	0.94	0.92	0.95	0.93	0.91	0.93	0.91	0.89	0.88
4	1.03	0.97	0.92	0.89	1.01	0.96	0.92	0.85	0.94	0.90	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.84
5	0.99	0.93	0.88	0.85	0.98	0.92	0.88	0.82	0.90	0.86	0.84	0.89	0.85	0.83	0.87	0.84	0.82	0.81
6	0.96	0.89	0.84	0.81	0.95	0.88	0.84	0.79	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.82	0.79	0.78
7	0.93	0.86	0.81	0.78	0.92	0.85	0.81	0.76	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.75
8	0.90	0.83	0.78	0.75	0.89	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.87	0.80	0.75	0.72	0.86	0.79	0.75	0.71	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.70
10	0.85	0.77	0.73	0.70	0.84	0.77	0.73	0.69	0.76	0.72	0.70	0.75	0.72	0.69	0.75	0.72	0.69	0.68

For lux multiply fc by 10.7

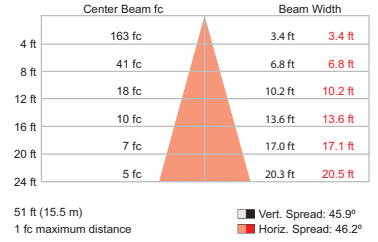
ColorBlast Powercore gen4 RGBW, 40° diffuser lens

Lumens	Efficacy
1,819	34.2

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,306.9	71.9%
0-40	1,616.9	88.9%
0-60	1,784.5	98.1%
0-90	1,818.5	100.0%
60-90	34.0	1.9%
70-100	10.8	0.6%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,818.5	100.0%

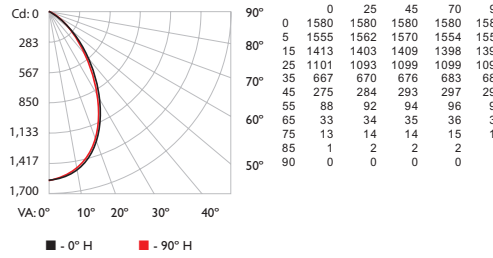
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80	70	50	30	10	0													
RW %:	70	50	30	0	50	30	20	50	30	20	50	30	20	0					
Effective Floor Cavity Reflectance: 20%																			
RCR:	0	1.19	1.19	1.19	1.19	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	1.13	1.11	1.08	1.06	1.11	1.08	1.06	0.94	1.04	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93
	2	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.87	0.98	0.95	0.92	0.89	0.86	0.82	0.80	0.80	0.80	0.87
	3	1.02	0.96	0.91	0.87	1.00	0.94	0.90	0.81	0.92	0.88	0.85	0.80	0.86	0.83	0.87	0.84	0.82	0.80
	4	0.97	0.90	0.84	0.80	0.95	0.88	0.83	0.76	0.86	0.82	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.75
	5	0.92	0.84	0.78	0.74	0.91	0.83	0.78	0.71	0.81	0.76	0.73	0.80	0.75	0.72	0.78	0.74	0.72	0.70
	6	0.88	0.79	0.73	0.69	0.86	0.78	0.73	0.67	0.77	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.66
	7	0.84	0.74	0.68	0.64	0.82	0.74	0.68	0.63	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.62
	8	0.80	0.70	0.64	0.60	0.79	0.70	0.64	0.59	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.59	0.58
	9	0.76	0.67	0.61	0.57	0.75	0.66	0.61	0.56	0.65	0.60	0.57	0.64	0.60	0.56	0.63	0.59	0.56	0.55
	10	0.73	0.63	0.58	0.54	0.72	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.57	0.53	0.60	0.56	0.53	0.52

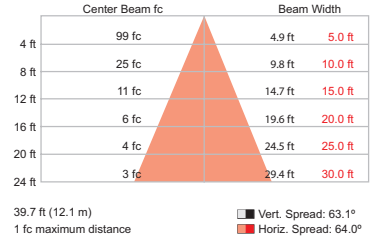
ColorBlast Powercore gen4 RGBW, 60° diffuser lens

Lumens	Efficacy
1,791	33.8

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,049.0	58.6%
0-40	1,457.0	81.4%
0-60	1,743.9	97.4%
0-90	1,791.0	100.0%
60-90	47.1	2.6%
70-100	15.2	0.8%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,791.0	100.0%

Coefficients Of Utilization - Zonal Cavity Method

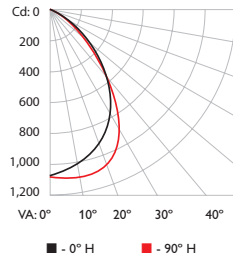
RCC %:	80	70	50	30	10	0													
RW %:	70	50	30	0	50	30	20	50	30	20	50	30	20	0					
Effective Floor Cavity Reflectance: 20%																			
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00		
	1	1.13	1.10	1.07	1.04	1.10	1.07	1.05	0.92	1.03	1.01	0.99	1.00	0.98	0.97	0.96	0.95	0.94	0.92
	2	1.06	1.01	0.96	0.92	1.04	0.99	0.95	0.85	0.96	0.92	0.89	0.93	0.90	0.87	0.90	0.88	0.86	0.84
	3	1.00	0.93	0.87	0.83	0.98	0.91	0.86	0.78	0.89	0.84	0.81	0.86	0.82	0.79	0.84	0.81	0.78	0.76
	4	0.94	0.86	0.79	0.75	0.92	0.84	0.79	0.71	0.82	0.77	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.70
	5	0.89	0.79	0.73	0.68	0.87	0.78	0.72	0.66	0.76	0.71	0.67	0.75	0.70	0.66	0.73	0.69	0.66	0.64
	6	0.84	0.74	0.67	0.62	0.82	0.73	0.67	0.60	0.71	0.66	0.62	0.70	0.65	0.61	0.68	0.64	0.61	0.59
	7	0.79	0.69	0.62	0.57	0.78	0.68	0.62	0.56	0.67	0.61	0.57	0.65	0.60	0.56	0.64	0.60	0.56	0.55
	8	0.75	0.64	0.58	0.53	0.73	0.64	0.57	0.52	0.62	0.57	0.53	0.61	0.56	0.52	0.60	0.56	0.52	0.51
	9	0.71	0.60	0.54	0.49	0.70	0.60	0.53	0.48	0.59	0.53	0.49	0.58	0.52	0.49	0.57	0.52	0.49	0.47
	10	0.67	0.56	0.50	0.46	0.66	0.56	0.50	0.45	0.55	0.50	0.46	0.54	0.49	0.46	0.54	0.49	0.45	0.44

For lux multiply fc by 10.7

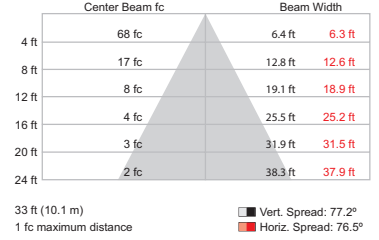
ColorBlast Powercore gen4 RGBW, 80° diffuser lens

Lumens	Efficacy
1,772	33.3

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	826.4	46.6%
0-40	1,266.4	71.5%
0-60	1,695.7	95.7%
0-90	1,771.7	100.0%
60-90	76.1	4.3%
70-100	23.3	1.3%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,771.7	100.0%

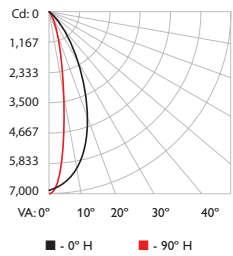
Coefficients Of Utilization - Zonal Cavity Method

RCC %:	80				70				Effective Floor Cavity Reflectance: 20%						
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0
RCR:	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3
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	1.12	1.09	1.06	1.03	1.09	1.06	1.04	0.91	1.02	1.00	0.98	0.98	0.97	0.95	0.95
2	1.05	0.99	0.94	0.89	1.02	0.97	0.92	0.82	0.93	0.90	0.86	0.90	0.87	0.84	0.88
3	0.98	0.90	0.83	0.79	0.96	0.88	0.82	0.74	0.85	0.81	0.77	0.83	0.79	0.75	0.81
4	0.91	0.82	0.75	0.70	0.89	0.81	0.74	0.66	0.78	0.73	0.68	0.76	0.71	0.68	0.74
5	0.85	0.75	0.68	0.62	0.83	0.74	0.67	0.60	0.72	0.66	0.61	0.70	0.65	0.61	0.68
6	0.80	0.69	0.62	0.56	0.78	0.68	0.61	0.55	0.66	0.60	0.56	0.65	0.59	0.55	0.63
7	0.75	0.63	0.56	0.51	0.73	0.63	0.56	0.50	0.61	0.55	0.51	0.60	0.54	0.50	0.58
8	0.70	0.59	0.52	0.47	0.69	0.58	0.51	0.46	0.57	0.51	0.46	0.56	0.50	0.46	0.54
9	0.66	0.55	0.47	0.43	0.65	0.54	0.47	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.51
10	0.62	0.51	0.44	0.39	0.61	0.50	0.44	0.39	0.49	0.43	0.39	0.49	0.43	0.39	0.48

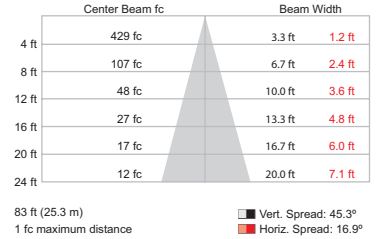
ColorBlast Powercore gen4 RGBW, 10° x 40° asymmetric lens

Lumens	Efficacy
1,963	37

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,660.8	84.6%
0-40	1,839.9	93.7%
0-60	1,940.8	98.9%
0-90	1,962.8	100.0%
60-90	22.1	1.1%
70-100	6.0	0.3%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	1,962.8	100.0%

Coefficients Of Utilization - Zonal Cavity Method

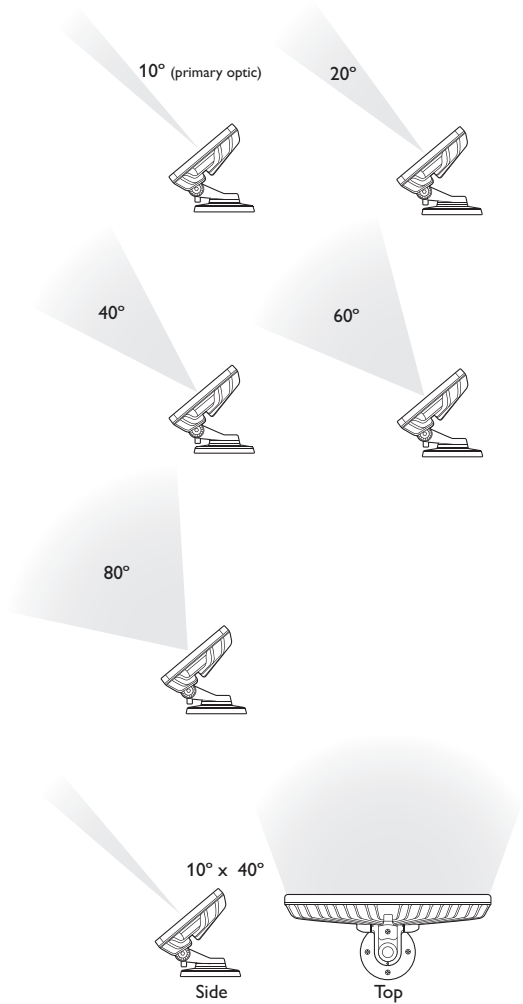
RCC %:	80				70				Effective Floor Cavity Reflectance: 20%						
	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0
RCR:	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02
1	1.14	1.12	1.10	1.08	1.12	1.10	1.08	0.95	1.06	1.04	1.03	1.02	1.01	1.00	0.99
2	1.10	1.05	1.02	0.99	1.08	1.04	1.01	0.91	1.01	0.98	0.96	0.98	0.96	0.94	0.95
3	1.05	1.00	0.96	0.92	1.03	0.98	0.95	0.87	0.96	0.93	0.90	0.94	0.91	0.89	0.91
4	1.01	0.95	0.90	0.87	0.99	0.94	0.89	0.83	0.92	0.88	0.85	0.90	0.87	0.84	0.88
5	0.97	0.90	0.85	0.82	0.96	0.89	0.85	0.79	0.88	0.84	0.81	0.86	0.83	0.80	0.85
6	0.94	0.86	0.81	0.78	0.92	0.85	0.81	0.76	0.84	0.80	0.77	0.83	0.79	0.76	0.82
7	0.90	0.83	0.78	0.74	0.89	0.82	0.77	0.73	0.81	0.77	0.74	0.80	0.76	0.73	0.79
8	0.87	0.79	0.74	0.71	0.86	0.79	0.74	0.70	0.78	0.74	0.71	0.77	0.73	0.70	0.76
9	0.84	0.76	0.71	0.68	0.83	0.76	0.71	0.67	0.75	0.71	0.68	0.74	0.70	0.67	0.73
10	0.81	0.73	0.69	0.66	0.81	0.73	0.69	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71

For lux multiply fc by 10.7

Specifications

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

Item	Specification	Details		
Output	Beam Angle	10° primary optic (no diffuser) Optional diffusers: 20° / 40° / 60° / 80° / 10° x 40° (asymmetric)		
	LED Channels	RGB	RGBA	RGBW
	Lumens*	1,755	1,852	2,162
	Efficacy	35.1	35	40.8
	Lumen Maintenance†	48,000+ hours L70 @ 50° C		
	Effective Projected Area (EPA)	0.096 m ²		
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz via Data Enabler Pro		
	Power Consumption	50 W maximum at full output, steady state		
	Power Factor	0.9 @ 120 VAC, 0.85 @ 277 VAC		
Control	Interface	Data Enabler Pro (DMX/Ethernet)		
	Control System	Philips full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers		
Physical	Dimensions (Height x Width x Depth)	185 x 338 x 171 mm (7.3 x 13.3 x 6.75 in)		
	Weight	3.9 kg (8.2 lb)		
	Housing	Die-cast aluminium, powder-coated finish		
	Lens	Clear tempered glass		
	Fixture Connections	1.8 m (6 ft) combined power data whip		
	Temperature Ranges	-40° – 50° C (-40° – 122° F) Operating -20° – 50° C (-4° – 122° F) Startup -40° – 80° C (-40° – 176° F) Storage		
	Humidity	0 – 95%, non-condensing		
Certification and Safety	Certification	UL/cUL, FCC Class A, CE, PSE, CQC, RCM, EAC, UA		
	Environment	Dry / Damp / Wet Location, IP66		
	Corrosion Resistance	ASTM B117 > 1,500 hours		
	Vibration Resistance	ANSI C136.31-2010 3G		
	Mechanical Impact	IK10		

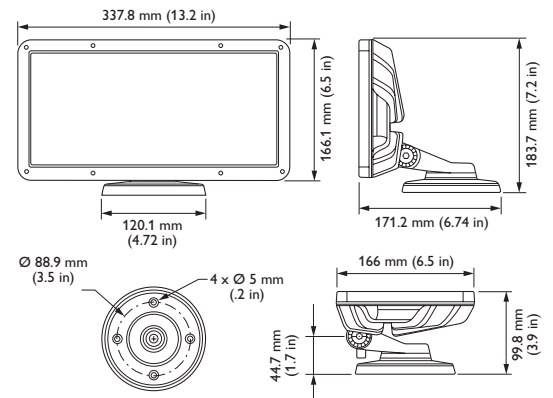


* Lumen measurement complies with IES LM-79-08.

† L70 = 70% lumen maintenance (when light output drops below 70% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with TM-21 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/ for more information.



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Fixtures and Data Enabler Pro

ColorBlast Powercore gen4 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 ColorBlast Powercore gen4 fixtures in series or in parallel. Standard 12 AWG 4 mm² (0.1 in) stranded wire is recommended.

Included in the box

ColorBlast Powercore gen4 fixture
(2) 8-32 stainless steel screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
5 mm hex wrench
2.5 mm hex wrench
Installation Instructions

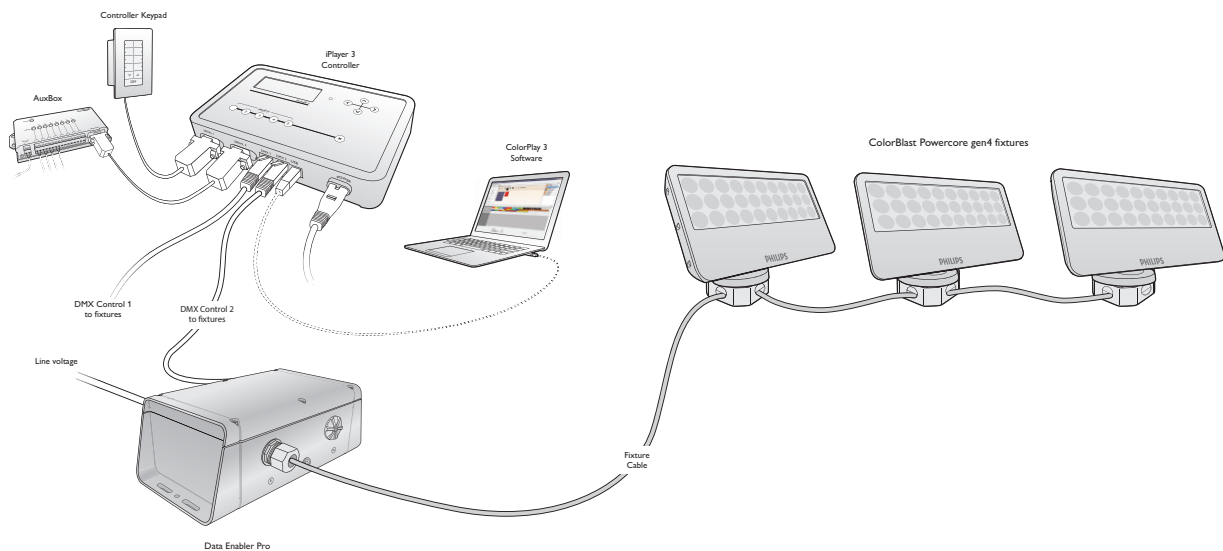
Item	LED	Housing Color	Item Number*	Philips 12NC
ColorBlast Powercore gen4 UL/CE	RGB	White	123-000155-00	912400130351
	RGB	Black	123-000155-01	912400130352
	RGB	Gray	123-000155-04	912400133535
	RGBA	White	423-000013-00	912400130379
	RGBA	Black	423-000013-01	912400130380
	RGBA	Gray	423-000013-04	912400133549
	RGBW	White	423-000012-00	912400130375
	RGBW	Black	423-000012-01	912400130376
	RGBW	Gray	423-000012-04	912400133547
	ColorBlast Powercore gen4 CQC	RGB	White	123-000155-02
RGB		Black	123-000155-03	912400130354
RGB		Gray	123-000155-05	912400133536
RGBA		White	423-000013-02	912400130381
RGBA		Black	423-000013-03	912400130382
RGBA		Gray	423-000013-05	912400133550
RGBW		White	423-000012-02	912400130377
RGBW		Black	423-000012-03	912400130378
RGBW		Gray	423-000012-05	912400133548

Item	Style	Item Number*	Philips 12NC
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

*Use Item Number when ordering in North America.

Typical ColorBlast Powercore gen4 system installation


For detailed wiring diagrams visit www.philipscolorkinetics.com/support/wiring/lis_prod.html




Accessories

All of the Philips Color Kinetics accessories are designed to provide customizable options for controlling and dispersing light as well as added protection. Any of the accessories can be used in tandem, although a Trim Ring is required when using a Diffuser.

Item	Item Number	Philips 12NC	Color	
Diffuser Trim Ring	120-000185-00	912400130336	White	
	120-000185-01	912400130337	Black	
	120-000185-15	912400133530	Gray	
Louver	120-000185-04	912400130340	White	
	120-000185-05	912400130341	Black	
	120-000185-17	912400133532	Gray	
Rock Guard	120-000185-06	912400130342	White	
	120-000185-07	912400130343	Black	
	120-000185-18	912400133533	Gray	
Half Glare Shield	120-000185-13	912400130349	White	
	120-000185-14	912400130350	Black	
	120-000185-19	912400133534	Gray	
Full Glare Shield	120-000185-02	912400130338	White	
	120-000185-03	912400130339	Black	
	120-000185-16	912400133531	Gray	

 For complete instructions on how to install the accessories, refer to the *ColorBlast Powercore gen4 Accessory Installation Instructions* at <http://www.colorkinetics.com/Blast-Powercore-gen4/>

Item	Item Number	Philips 12NC	
Diffuser (Spread Lens), 20°	120-000185-08	912400130344	
Diffuser (Spread Lens), 40°	120-000185-09	912400130345	
Diffuser (Spread Lens), 60°	120-000185-10	912400130346	
Diffuser (Spread Lens), 80°	120-000185-11	912400130347	
Diffuser (Spread Lens), 10° X 40° Asymmetric	120-000185-12	912400130348	

Installation

ColorBlast Powercore gen4 offers rich, saturated wall-washing color and color-changing effects 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 ColorBlast Powercore gen4 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

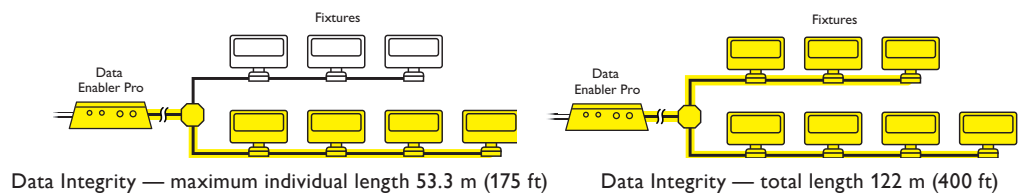
When installing in damp or wet locations, it is good practice to seal all fixtures and junction boxes with electronics-grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. You must use suitable outdoor-rated junction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

Create a Lighting Design Plan and Layout Grid

1. Determine the appropriate location of each Data Enabler Pro in relation to the light fixtures, and of the light fixtures in relation to each other.

ColorBlast Powercore gen4 fixtures can be installed in series or in parallel (wired to a common junction box). The maximum number of fixtures each Data Enabler Pro can support depends on specific configuration details such as fixture spacing, circuit size, line voltage, and method of connection (in series or in parallel). For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.

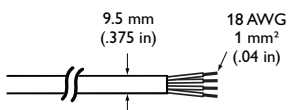
In addition to maximum fixture run lengths determined by the electrical configuration, each Data Enabler Pro imposes maximum run lengths based on data integrity. To ensure data integrity, maximum individual run length should not exceed 53.3 m (175 ft), and the total cable length per Data Enabler Pro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



✳ Refer to the ColorBlast Powercore gen4 Installation Instructions for specific warning and caution statements at <http://www.colorkinetics.com/lslrgb/colorblast12pci>

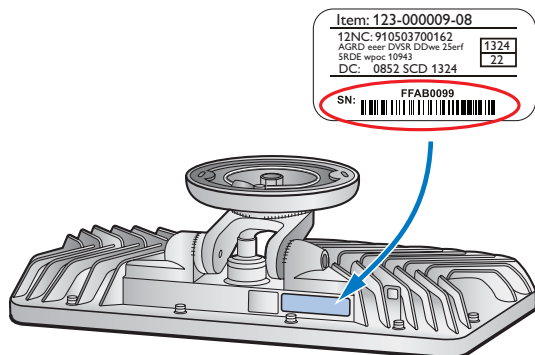
✳ To streamline the configuration of complex installations, record IP address (Ethernet) and location of each Data Enabler Pro.

Leader Cable Dimensions



2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, Data Enabler Pro devices, fixtures, and cables.

- Each ColorBlast Powercore gen4 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.

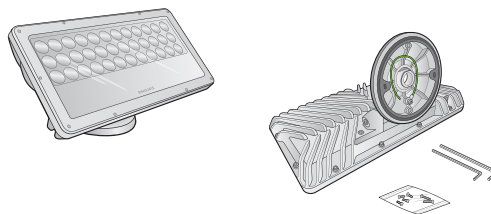


- Assign each fixture to a position in the lighting design plan.
- To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each light fixture's housing.

Start the Installation

- 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 the single fixture cable. Additional cabling is required to connect fixtures together in series.
- Verify that all additional supporting equipment (switches, controllers) is in place.
- Ensure that all additional parts and tools are available, including:
 - The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
 - The included 5 mm and 2.5 mm hex wrenches
 - In the US, one 102 mm (4 in) round US electrical junction box per fixture, rated for your application, with 89 mm (3.5 in) center-to-center screw holes for attaching the fixture's base. (Refer to the junction box manufacturer's literature for additional items required for mounting or sealing.)
 - A sufficient length of 12 AWG 4 mm² (0.1 in), 4-conductor stranded copper wire
 - Conduit as required
 - Electronics-grade room temperature vulcanizing (RTV) silicone sealant

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



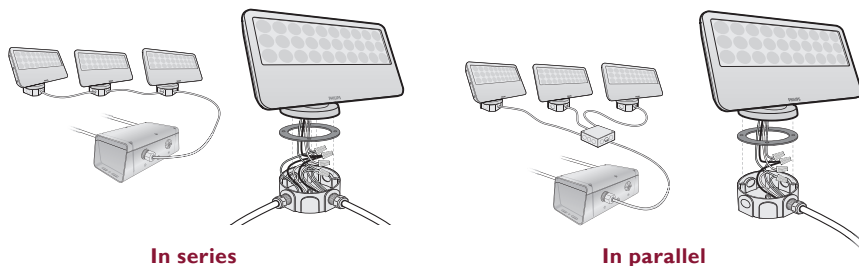
Included in the box

ColorBlast Powercore gen4 fixture
(2) 8-32 stainless steel screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
5 mm hex wrench
2.5 mm hex wrench
Installation Instructions

***** When installing ColorBlast Powercore gen4 fixtures, the input earth ground, canopy earth ground, and fixture cable earth ground must all be connected together.

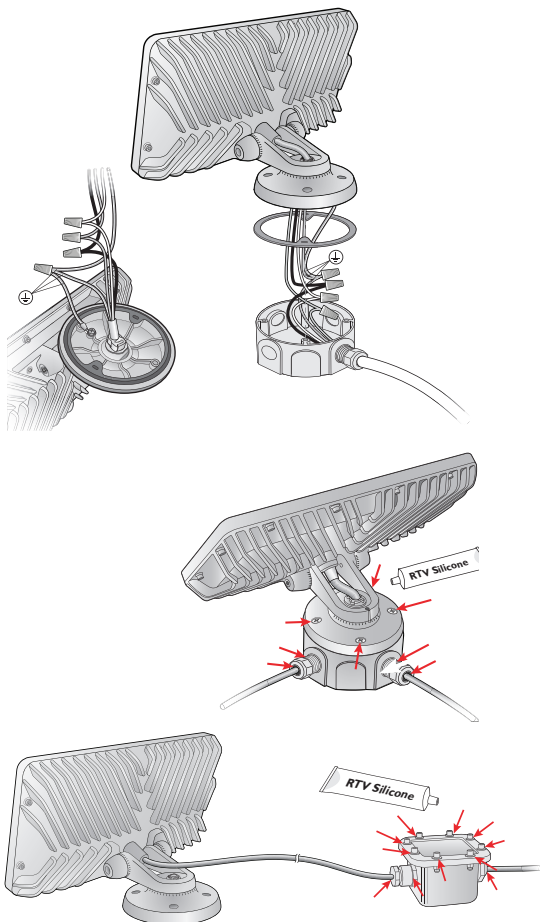
Install the Fixtures

ColorBlast Powercore gen4 fixtures can be installed in series or in parallel (wired to a common junction box). Each fixture requires a dedicated junction box for mounting. Ensure that all junction boxes are suitable for the environment and sealed, if necessary, and that all wiring between junction boxes complies with local codes.



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

✳ Wiring between junction boxes must comply with local codes.



Make sure the power is OFF before mounting and connecting ColorBlast Powercore gen4 fixtures.

1. Mount junction boxes in accordance with the lighting design plan. Each fixture 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 fixture's base.

Fixtures are supplied with a grounding wire attached to the fixture'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 fixture cable.

2. If installing fixtures in a series, pull 4-conductor copper wire between each junction box in the series.

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

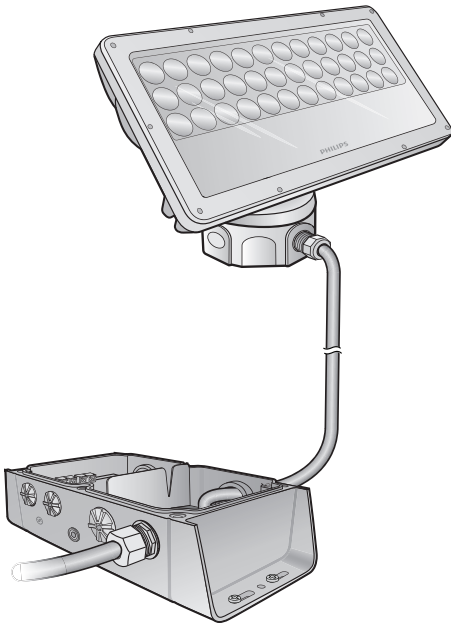
The maximum cable run from a Data Enabler Pro to any individual ColorBlast Powercore gen4 fixture is 53 m (175 ft). When installing in parallel, the total cable length cannot exceed 122 m (400 ft).

3. Trim the cable from the fixture to fit in the junction box, leaving enough cable to make wiring connections.
4. Insert the fixture cable and the canopy ground wire through the attached gasket ring before making wire connections. When attaching the fixture to the junction box, ensure that the gasket is compressed evenly.
5. Use wire nuts to connect line, neutral, ground, and data. If installing in series, connect the leader cable from each fixture to the fixture's junction box. If installing in parallel, connect the leader cable from each fixture to the lead wire from the Data Enabler Pro in the common junction box.

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

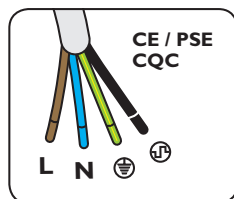
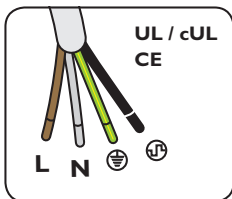
6. Tuck wire connections into the junction box, and use the provided screws to attach the fixture to the junction box.
7. If installing in a damp or wet location, seal all junction boxes with electronics-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.

- Run the wiring from the first junction box in the series to the Data Enabler Pro, or, if installing in parallel, run the wiring from the common junction box to the Data Enabler Pro. Secure connections within the Data Enabler Pro housing.

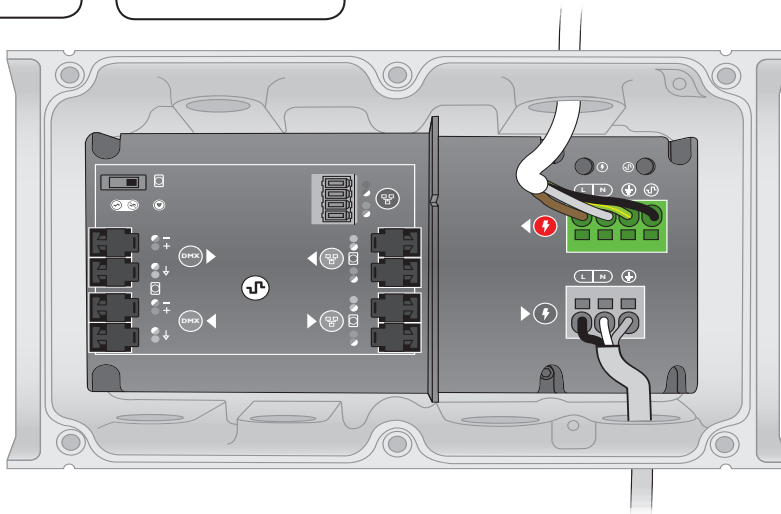


Data Enabler Pro

- Secure the Data Enabler Pro cover. If installing in a wet or damp location, seal the Data Enabler Pro with electronics-grade RTV silicone sealant.



Power / data output to fixtures



Mains voltage input

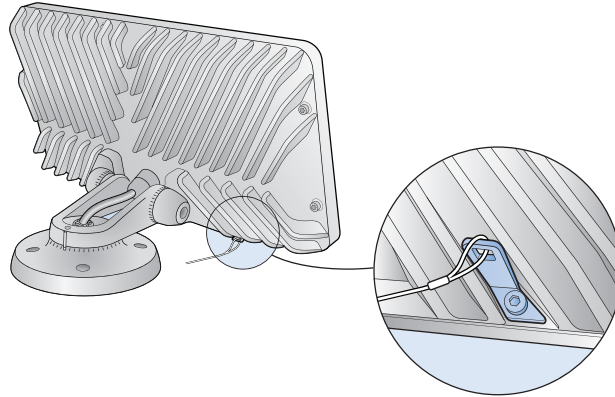
* Refer to the Data Enabler Pro Product Guide for comprehensive installation and configuration instructions. You can view or download the guide from www.philipscolorkinetics.com/ls/pds/dataenablerpro

Safety cable 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).
Construction	7 x 7 (49 wires) preformed stranded

Attach Safety Cable (Optional)

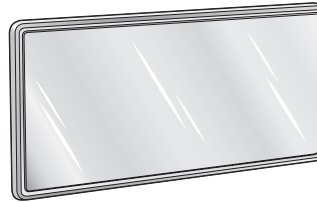
Each ColorBlast Powercore gen4 fixture is designed for use with a safety cable to tether it to a secure anchor point. When dictated by local or state code or advised by a structural engineer, attach a safety cable to the bracket on the back of the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.



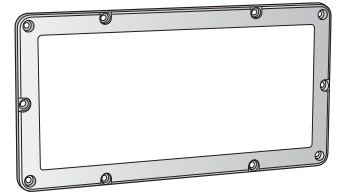
Attach Accessories (Optional)

Accessories can be installed to change the beam angle or add extra protection to the fixture in outdoor environments.

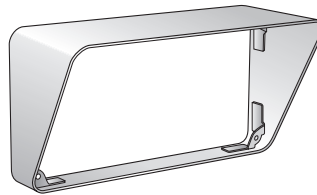
* For complete instructions on how to install the accessories, refer to the *Accessory Installation Instructions* at <http://www.colorkinetics.com/lslrgb/colorblast12pc/>



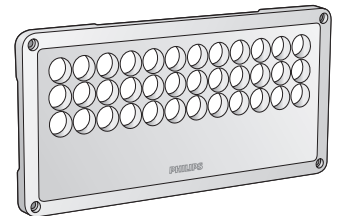
Spread Lens



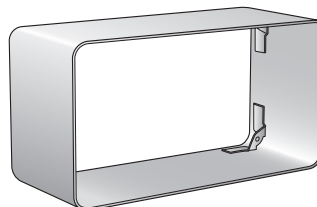
Trim Ring



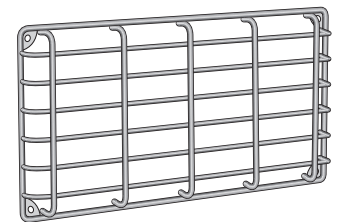
Glare Shield - Half



Louver



Glare Shield - Full




Rock Guard

Address and Configure the Fixtures

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

You address and configure Color Gen4 Powercore fixtures using QuickPlay Pro addressing and configuration software, which you can download for free from www.philipscolorkinetics.com/support/addressing/.

- 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.

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

Addressing ColorBlast Powercore Fixtures

ColorBlast Powercore fixtures operate in 8-bit mode by default. You can configure ColorBlast Powercore to operate in 16-bit mode, which increases fixture resolution for smoother dimming.

In 8-bit mode, fixtures use one DMX address per LED channel (red, green, and blue). In 16-bit mode, fixtures use two DMX addresses per LED channel. The first DMX address corresponds to the “coarse” data for that channel, and the second corresponds to the “fine” data. By using double the number of DMX addresses, 16-bit mode increases fixture resolution from 256 dimming steps to 65,536 (256 x 256) dimming steps.

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

ColorBlast Powercore gen4 fixtures come factory-addressed with a starting DMX address of 1. For lighting designs where fixtures work in unison, all fixtures can be assigned the same starting DMX address. Changes to the default starting DMX address 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.

Setting Fixture Dimming Curve

Dimming curves describe how slowly or quickly a fixture dims at different levels of input. For finer control, ColorBlast Powercore gen4 offers three different dimming curves for use in different situations and applications:


- **Normal**
The non-linear (gamma) dimming curve used in most Philips Color Kinetics LED lighting fixtures. ColorBlast Powercore gen4 fixtures use the normal dimming curve by default.
- **Linear**
A dimming curve with a linear relationship between power input and DMX output.
- **Tungsten**
A non-linear dimming curve that emulates the dimming curve of incandescent lamps on a DMX dimmer. This curve offers the most control at low intensities.

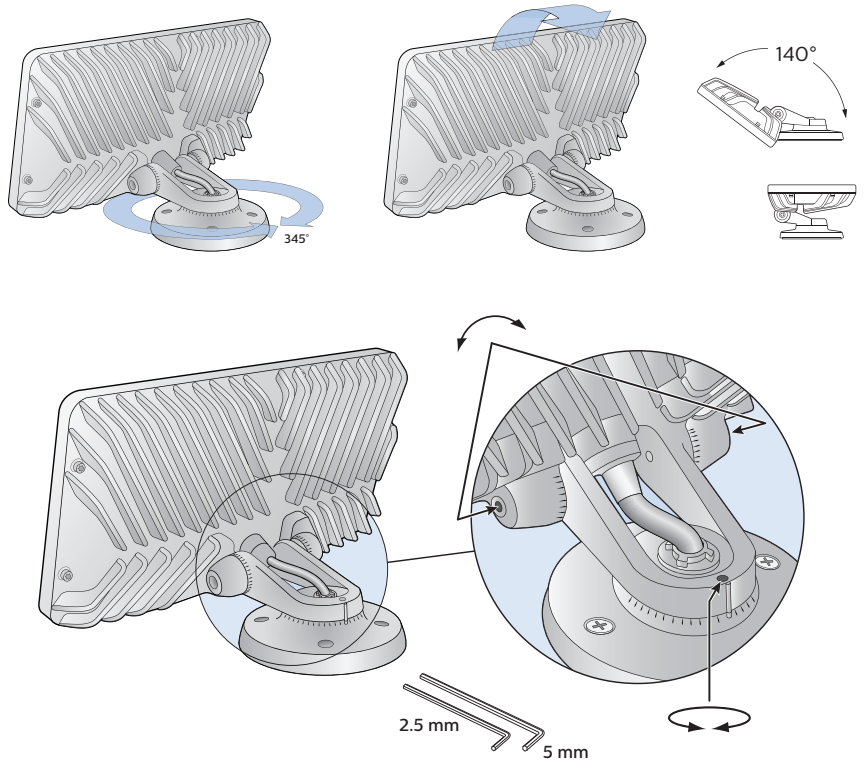
Setting LED Transition Speed

Normally, LEDs react to DMX or other control data instantaneously. In some cases, you may want to slow down the reaction speed to achieve smoother transitions when the intensity of different LED channels changes. ColorBlast Powercore gen4 offers five levels of decreasing LED transition speed, from Fast (instant snap changes) to Delay-4 (slowest transition speed).

Aim and Lock the Fixtures

Aim the fixtures by rotating the base and tilting the beam as desired. Tighten the two pairs of set screws with the appropriate hex wrench to lock the fixture in place.

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



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