ColorBlast 12
ColorBlast 6

The original exterior LED wash fixture with intelligent color light

PHILIPS

COLOR KINETICS

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The original exterior LED wash fixture with intelligent color light

High-performance ColorBlast LED fixtures generate rich, saturated colors and color-changing effects for a range of wall-washing and floodlighting applications. Designed with the needs of lighting designers, architects, and retail window directors in mind, ColorBlast can be used in both indoor and outdoor installations. ColorBlast 12 high-intensity LEDs produce superior light output of over 1200 lumens, while ColorBlast 6 produces a lower intensity output in a compact, low-profile housing. Both versions offer full pan and tilt rotation, flexible mounting options, two beam angles, and superior control through Philips or third-party DMX controllers.

- Two beam patterns — A frosted glass lens (22° beam angle for ColorBlast 12, 21° for ColorBlast 6) produces a soft-edge beam, while a clear glass lens (10° beam angle) affords extended light projection.
- Flexible mounting options — The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning — The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture without special tools.
- Industry-leading controls — ColorBlast fixtures work seamlessly with the complete line of Philips controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.
- Additional options for controlling and dispersing light — Designed specifically for the family of ColorBlast fixtures by City Theatrical, Inc., accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

Outdoor Rated
Fully sealed for maximum fixture life and IP66 rated for outdoor applications, ColorBlast fixtures meet or exceed specifications for use in wet locations. Rugged, die-cast aluminum housing is available in white or black powder-coated finish.

Transforming Chicago with ColorBlast

Transforming the Nightclub

Chicago's ultra contemporary Soundbar boasts two levels of entertainment with an eye-popping interior unlike any other. The 20,000 sq ft (1858 m^2) nightclub is comprised of unique lounges, bar areas, and dance floors, each distinguished by its own vivid hue. To add sparkle to the club's exterior and main dance area, Soundbar's lighting designers enlisted the help of intelligent LED lighting from Philips Color Kinetics.

Lighting Design: : Michael Dreas, Dreas and Associates

The industrial building's exterior façade features glass panels, lit by ColorBlast 6 fixtures, which gradually change color over the course of an hour. The compact, rugged fixtures wash the glass surfaces with rich colors ranging from bright red to exotic green.

Inside the club, ColorBlast 6 fixtures envelop the main dance area (shown here and on the cover) in deep shades of blue. To complement the design and high-energy music, four clear acrylic columns, internally lit by ColorBlast 6, extend from floor to ceiling. Because the fixtures are low-heat and low-maintenance, the project designers could install them in concealed and hard-to-reach spaces. In addition, the dynamic effects are easily rendered with the club's existing DMX control system.

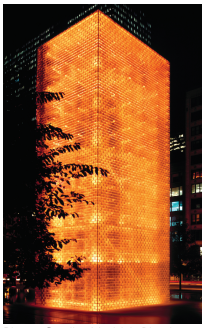


Photo Credits: Hedrich Blessing

Transforming the Fountain

Completed in July 2004, the acclaimed Crown Fountain, located in Chicago's Millennium Park, is an interactive sculpture comprising glass, water, and light. The fountain encompasses two 50 ft (15 m) glass block towers linked by a 232 ft (71 m) reflecting pool. Each translucent tower is lit by approximately 70 ColorBlast 12 fixtures, which gradually change color. Because of their compact size, the designers were able to install the ColorBlast fixtures where needed to properly illuminate the towers and glass.

In order to make the towers appear light and translucent, with their internal structures reflecting light from behind the glass surface, the designers installed the ColorBlast fixtures on continuous channels mounted between the glass blocks and the structures, aiming straight upwards to illuminate the structures just beyond the glass. The towers glow from within on three sides, while the fourth sides feature LED video displays that project the diverse faces of Chicago and nature scenes. Water cascades down the outside of the towers into the pool below.

According to the project architect, the ability to manipulate the lighting in multiple ways, depending on time of day and season, was an important consideration. Because longevity and dependability were also key to the design, ColorBlast fixtures, with their long lifetimes and low maintenance requirements, were the logical choice. Both the lighting and fountain controls respond to one DMX-based control system, which integrates seamlessly with the ColorBlast fixtures.

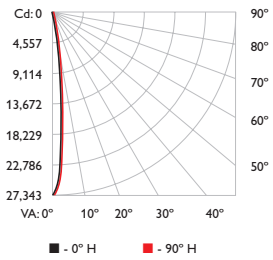
Photometrics

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 12 10° beam angle

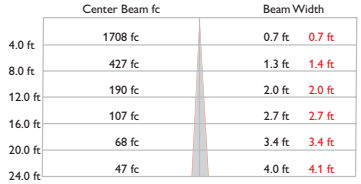
LED	Lumens	Efficacy
RGB	1207	16.9

Polar Candela Distribution



	0	22.5	44	67.5	90
0	27343	27343	27343	27343	27343
5	12774	12942	13162	13077	12960
15	458	465	473	464	459
25	157	152	156	153	154
35	114	111	116	113	114
45	55	56	58	56	56
55	21	21	21	21	21
65	2	2	2	2	2
75	1	1	1	1	2
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



165 ft (50.3 m)
1 fc maximum distance

Vert. Spread: 9.6°
Horiz. Spread: 9.7°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	1,062.6	88%	88.1%
0-40	1,134.6	94%	94.1%
0-60	1,197.4	99.2%	99.3%
60-90	8.1	0.7%	0.7%
0-90	1,205.5	99.9%	100%
90-180	0	0%	0%
0-180	1,205.5	99.9%	100%

Total Efficiency: 99.9%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

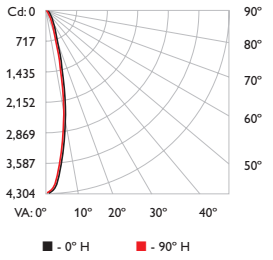
RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.13	1.12	1.10	1.13	1.11	1.10	.98	1.07	1.06	1.05	1.04	1.03	1.02	1.00	1.00	.99	.97
2	1.12	1.09	1.06	1.04	1.10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

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

ColorBlast 12 22° beam angle

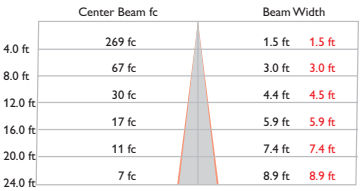
LED	Lumens	Efficacy
RGB	1090	15.3

Polar Candela Distribution



	0	22.5	44	67.5	90
0	4300	4300	4300	4300	4300
5	3614	3616	3626	3633	3634
15	1217	1218	1222	1222	1224
25	376	376	377	377	378
35	166	166	166	166	166
45	90	90	90	90	90
55	51	51	52	52	52
65	28	28	29	29	29
75	12	12	12	12	12
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



65.5 ft (19.9 m)
1 fc maximum distance

Vert. Spread: 20.9°
Horiz. Spread: 21.0°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	824.1	75.6%	75.7%
0-40	929.8	85.3%	85.4%
0-60	1,046.7	96%	96.1%
60-90	42.5	3.9%	3.9%
0-90	1,089.2	99.9%	100%
90-180	0	0%	0%
0-180	1,089.2	99.9%	100%

Total Efficiency: 99.9%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.11	1.08	1.06	1.11	1.09	1.07	.94	1.05	1.03	1.01	1.01	1.00	.98	.98	.96	.95	.94
2	1.08	1.04	1.00	.96	1.06	1.02	.98	.88	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3	1.03	.97	.93	.89	1.01	.96	.92	.83	.93	.90	.87	.91	.88	.85	.89	.86	.84	.82
4	.99	.92	.87	.83	.97	.91	.86	.79	.89	.84	.81	.87	.83	.80	.85	.82	.79	.78
5	.95	.87	.82	.78	.93	.86	.81	.75	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6	.91	.83	.77	.74	.89	.82	.77	.72	.81	.76	.73	.79	.75	.72	.78	.75	.72	.71
7	.87	.79	.74	.70	.86	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75	.71	.69	.67
8	.84	.76	.71	.67	.83	.75	.70	.66	.74	.70	.66	.73	.69	.66	.72	.69	.66	.65
9	.81	.73	.68	.64	.80	.72	.67	.63	.71	.67	.64	.71	.67	.64	.70	.66	.63	.62
10	.79	.70	.65	.62	.78	.70	.65	.61	.69	.65	.62	.68	.64	.61	.68	.64	.61	.60

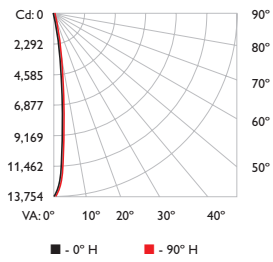
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

ColorBlast 6
10° beam angle

LED	Lumens	Efficacy
RGB	584	14.2

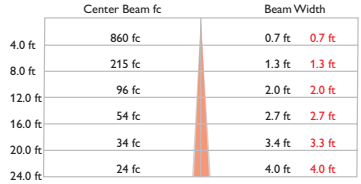
Polar Candela Distribution



	0	22.5	44	67.5	90
0	13754	13754	13754	13754	13754
5	6424	6412	6484	6469	6352
15	210	213	219	217	214
25	73	74	75	74	77
35	52	52	54	52	52
45	25	25	26	26	24
55	9	8	9	9	9
65	3	3	3	3	3
75	1	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



117 ft (35.7 m)
1 fc maximum distance

Vert. Spread: 9.6°
Horiz. Spread: 9.5°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	518.9	88.9%	89.1%
0-40	551.9	94.5%	94.7%
0-60	579.2	99.2%	99.4%
60-90	3.4	0.6%	0.6%
0-90	582.7	99.8%	100%
90-180	0	0%	0%
0-180	582.7	99.8%	100%

Total Efficiency: 99.8%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

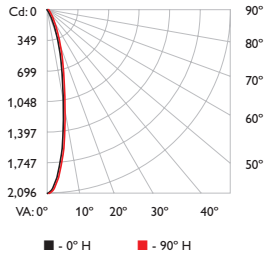
RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.13	1.12	1.10	1.13	1.11	1.10	.98	1.07	1.06	1.05	1.04	1.03	1.02	1.00	1.00	.99	.97
2	1.12	1.09	1.06	1.04	1.10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

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

ColorBlast 6
21° beam angle

LED	Lumens	Efficacy
RGB	534	13.0

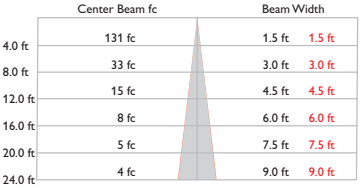
Polar Candela Distribution



	0	22.5	44	67.5	90
0	2095	2095	2095	2095	2095
5	1772	1772	1772	1773	1772
15	603	605	606	607	604
25	187	187	187	188	187
35	81	81	81	81	81
45	43	43	43	43	43
55	24	24	25	24	24
65	13	13	13	13	13
75	6	5	6	6	6
85	0	0	0	0	0
90	0	0	0	0	0

90° 80° 70° 60° 50°

Illuminance at Distance



45.7 ft (13.9 m)
1 fc maximum distance

Vert. Spread: 21.2°
Horiz. Spread: 21.2°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	406.7	76.2%	76.2%
0-40	458.4	85.8%	85.8%
0-60	514.2	96.3%	96.3%
60-90	19.9	3.7%	3.7%
0-90	534.1	100%	100%
90-180	0	0%	0%
0-180	534.1	100%	100%

Total Efficiency: 100%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.11	1.09	1.06	1.11	1.09	1.07	.94	1.05	1.03	1.01	1.01	1.00	.98	.98	.97	.96	.94
2	1.08	1.04	1.00	.97	1.06	1.02	.99	.89	.99	.96	.93	.96	.94	.91	.93	.91	.90	.88
3	1.04	.97	.93	.89	1.02	.96	.92	.84	.93	.90	.87	.91	.88	.86	.89	.86	.84	.83
4	.99	.92	.87	.83	.97	.91	.86	.79	.89	.85	.82	.87	.83	.81	.85	.82	.80	.78
5	.95	.87	.82	.78	.93	.86	.81	.75	.85	.80	.77	.83	.79	.76	.81	.78	.76	.74
6	.91	.83	.78	.74	.90	.82	.77	.72	.81	.76	.73	.80	.76	.73	.78	.75	.72	.71
7	.88	.79	.74	.70	.86	.79	.74	.69	.78	.73	.70	.76	.72	.69	.75	.72	.69	.68
8	.84	.76	.71	.67	.83	.76	.71	.66	.75	.70	.67	.74	.69	.67	.73	.69	.66	.65
9	.82	.73	.68	.64	.81	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.64	.63
10	.79	.70	.65	.62	.78	.70	.65	.61	.69	.65	.62	.69	.65	.62	.68	.64	.62	.60

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

For lux multiply fc by 10.7

Specifications

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

Item	Specification	ColorBlast 6	ColorBlast 12
Output	Beam Angle	10° / 21°	10° / 22°
	Lumens*	584 (10° beam angle) 534 (21° beam angle)	1207 (10° beam angle) 1090 (22° beam angle)
	LED Channels	Red / Green / Blue	
	Mixing Distance	6 in (152 mm) to uniform light	
	Lumen Maintenance†	50,000+ hours L_{50} @ 50° C (full output)	
Electrical	Input Voltage	24 VDC via PDS-150e or PDS-60	
	Power Consumption	25 W maximum at full output, steady state	50 W maximum at full output, steady state
Control	Interface	PDS-150e 24V (DMX or Ethernet) PDS-60 24V (DMX, Pre-programmed, or 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)*	8.4 x 6.3 x 5.1 in (213 x 160 x 130 mm)	8.4 x 12.6 x 5.1 in (213 x 320 x 130 mm)
	Weight	Net: 6.5 lb (2.95 kg) Gross: 8.4 lb (3.8 kg)	Net: 8 lb (3.65 kg) Gross: 9.8 lb (4.45 kg)
	Housing	Die-cast aluminium, black or white powder-coated finish	
	Lens	Clear glass (10° beam angle) Frosted glass (21° beam angle)	Clear glass (10° beam angle) Frosted glass (22° beam angle)
	Fixture Connections	60 ft (18.3 m) unified power / data cable	
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Humidity	0 – 95%, non-condensing	
	Maximum Fixtures Per Power / Data Supply	PDS-150e 24V: 6 PDS-60 24V: 2	PDS-150e 24V: 3 PDS-60 24V: 1
Certification and Safety	Certification	UL / cUL, FCC Class A, CE, PSE, C-Tick, SAA, CQC	
	Environment	Dry / Damp / Wet Location, IP66	

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

† L_{50} = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/ for more information.

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

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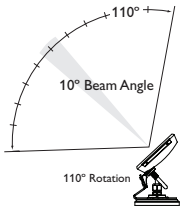
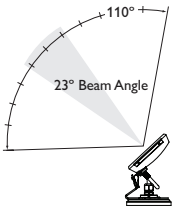
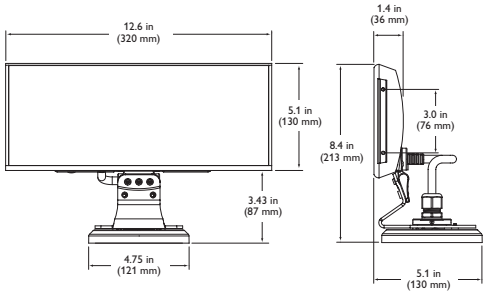
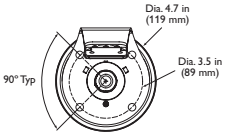
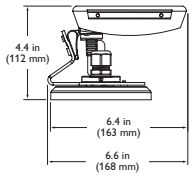
ColorBlast 12



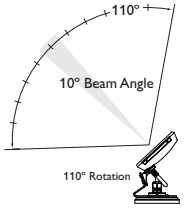


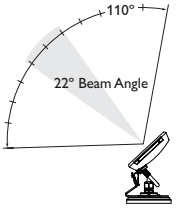


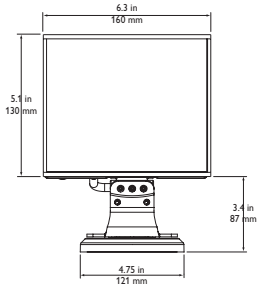


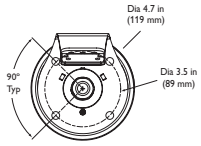


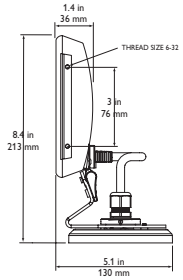
ColorBlast 6

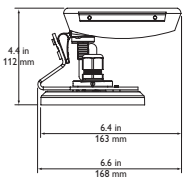












Included in the box

ColorBlast 6 or ColorBlast 12 fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
Watertight grommet assembly
3/32 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

Fixtures, Power / Data Supplies, and Controllers

ColorBlast 6 and ColorBlast 12 fixtures are part of a complete system which includes:

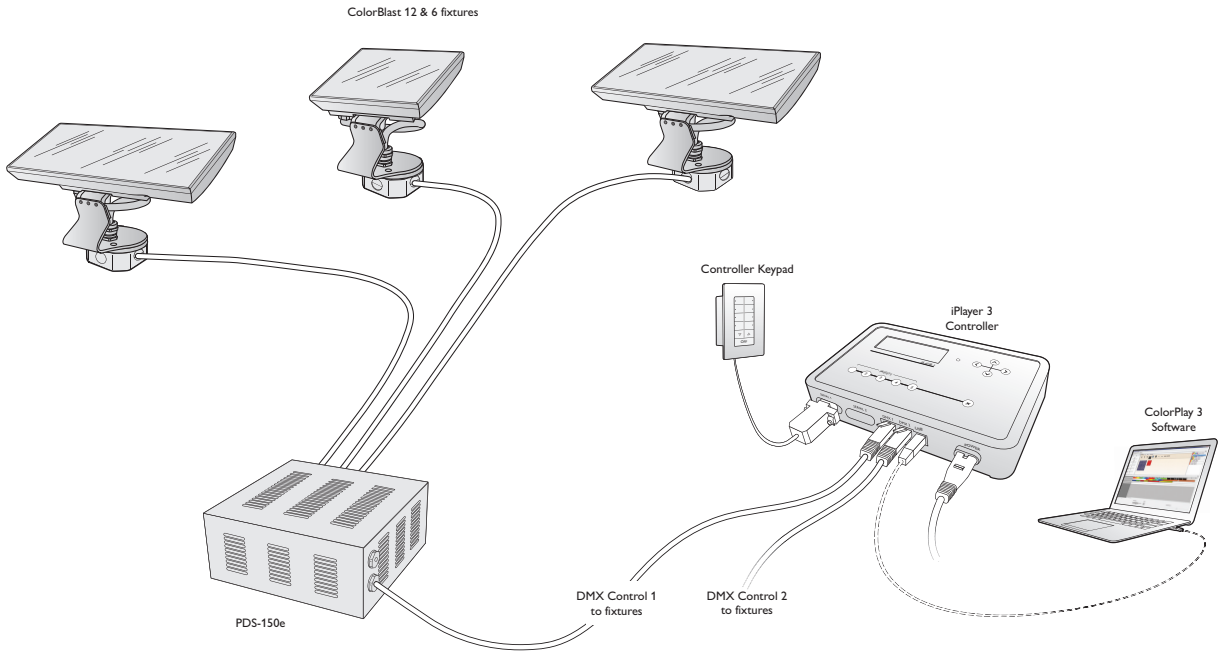
- One or more power / data supplies
- Any Philips controller, including Light System Manager and iPlayer 3, or a third-party DMX controller

	Item	Type	Housing Color	Item Number	Philips 12NC
ColorBlast fixtures	ColorBlast 12	22° Beam Angle	White	116-000025-00	910503700589
		10° Beam Angle		116-000025-02	910503700591
		22° Beam Angle	Black	116-000025-01	910503700590
		10° Beam Angle		116-000025-03	910503700592
	ColorBlast 6	21° Beam Angle	White	116-000026-00	910503700593
		10° Beam Angle		116-000026-02	910503700595
		21° Beam Angle	Black	116-000026-01	910503700594
		10° Beam Angle		116-000026-03	910503700596
Power / data supplies	PDS-150e 24V	DMX / Ethernet		109-000008-01	910503700092
	PDS-60 24V	Pre-programmed		109-000017-00	910503700096
		DMX / Ethernet		109-000017-03	910503700097

Use Item Number when ordering in North America

Typical ColorBlast installation

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



Accessories

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

Item	Type	Housing Color	Item Number	Philips 12NC
Accessory Holders	ColorBlast 12	White	120-000003-03	910503702839
		Black	120-000003-04	910503702840
	ColorBlast 6	White	120-000004-03	910503702841
		Black	120-000004-04	910503702842
Half Top Hats	ColorBlast 12	White	120-000009-03	910503702847
		Black	120-000009-04	910503702848
	ColorBlast 6	White	120-000010-03	910503702849
		Black	120-000010-04	910503702850
Top Hats	ColorBlast 12	White	120-000005-03	910503702843
		Black	120-000005-04	910503702844
	ColorBlast 6	White	120-000006-03	910503702845
		Black	120-000006-04	910503702846
Egg Crate Louvers	ColorBlast 12	White	120-000015-03	910503702851
		Black	120-000015-04	910503702852
	ColorBlast 6	White	120-000016-03	910503702853
		Black	120-000016-04	910503702854
Barndoors	ColorBlast 12	White	120-000019-03	910503702855
		Black	120-000019-04	910503702856
	ColorBlast 6	White	120-000020-03	910503702857
		Black	120-000020-04	910503702858
Horizontal Glass Spread Lens*	ColorBlast 12	36° (ribs out) / 50° (ribs in)	120-000025-00	910503703897
	ColorBlast 6	36° (ribs out) / 50° (ribs in)	120-000026-00	910503703899
Horizontal / Vertical Glass Spread Lens*	ColorBlast 12	40°	120-000025-01	910503703898
	ColorBlast 6	40°	120-000026-01	910503702772

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

Use Item Number when ordering in North America.

Installation

ColorBlast offers rich, saturated wall-washing color and color-changing effects, both indoors and outdoors. Both ColorBlast 12 and ColorBlast 6 are low-voltage fixtures, intended for use with the power / data supplies PDS 150e 24V and PDS-60 24V from Philips Color Kinetics.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate ColorBlast fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Refer to the ColorBlast 6 and ColorBlast 12 Installation Instructions for specific warning and caution statements.

Installing in Wet or Damp Locations

When installing in wet or damp 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 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

Create a Lighting Design Plan and Layout Grid

1. Determine the appropriate location of each power / data supply in relation to the fixtures, and of the fixtures in relation to each other. Refer to the power / data supply's Installation Instructions or Specification Sheet for guidelines on configuring and positioning the power / data supply in relation to the controller.

   With the native 60 ft (18.3 m) power / data cable supplied with each fixture, you can connect up to three ColorBlast 12 fixtures to each PDS-150e, or one ColorBlast 12 fixture to each PDS-60. You can connect up to six ColorBlast 6 fixtures to each PDS-150e, or up to two ColorBlast 6 fixtures to each PDS-60. Using 18 AWG, 3-conductor stranded copper wire, you can extend the cable for each individual fixture to a maximum length of 150 ft (45.7 m), as long as the total cable length for each power / data supply does not exceed 400 ft (121.9 m).

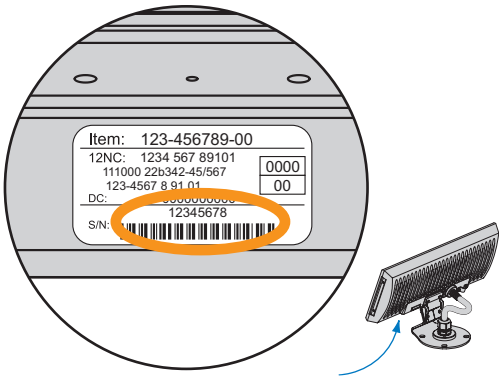
2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and cables.

3. Each ColorBlast 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.

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

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

Record fixture serial numbers



For complete instructions on how to wire the power / data supply, refer to the specific power / data supply's Installation Guide or Specification Sheet. For sample wiring diagrams, visit www.philipscolorkinetics.com/support/wiring/ls_prod.html/

Start the Installation

1. Install all power / data supplies, including any interfaces with controllers. Power / data supplies and external controllers send power and control signals to the fixtures over the single fixture cable.

2. Ensure that the number of free power / data supply power ports is adequate.

3. Verify that all additional supporting equipment (switches, controllers) is in place.

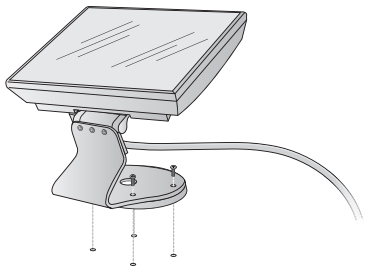
4. Ensure that all additional parts and tools are available, including:
   - The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
   - The included 3/32 in hex key wrench
   - The included junction box gasket (optional)
   - Unless mounting directly to a wall, ceiling, or other surface, 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 junction box manufacturer's literature for additional items required for mounting or sealing.)
   - Conduit as required
   - Contractor-grade room temperature vulcanizing (RTV) silicone sealant

Install the Fixtures

If installing ColorBlast fixtures indoors, you can mount the fixtures directly to a wall, ceiling, or other suitable surface. For outdoor installations, and optionally for indoor installations, you install ColorBlast fixtures to a junction box. In wet or damp locations, you must ensure that all junction boxes are suitable for the environment and sealed, if necessary.

Mounting ColorBlast Directly to a Surface

1. Determine the fixture mounting locations as specified in the lighting design plan.
2. Ensure that the fixture sits flush to the mounting surface.
3. Using the provided 8-32 screws, attach the fixture to the mounting surface.

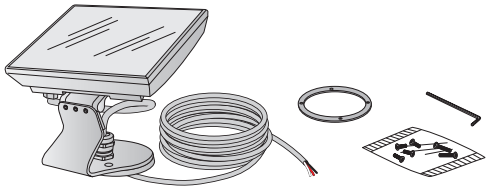


4. Repeat steps 2 and 3 for each fixture in the installation.

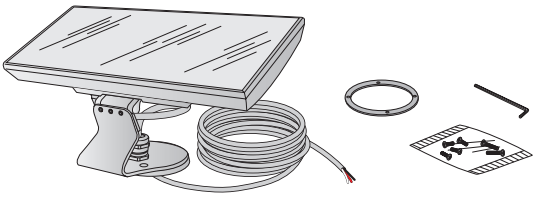
Mounting ColorBlast to a Junction Box

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.
2. Screw the included grommet assembly into the fixture's base. If installing in a wet or damp location, seat the O-ring securely against the opening in the fixture base to ensure a watertight seal.
3. Insert the fixture cable through the grommet's dome nut, loosening the dome nut if necessary, and the fixture's base. Leave enough cable above the dome nut to allow full fixture rotation.
4. Tighten the dome nut to seal the cable. After 24 hours, tighten the dome nut again to ensure a proper seal.

ColorBlast 6



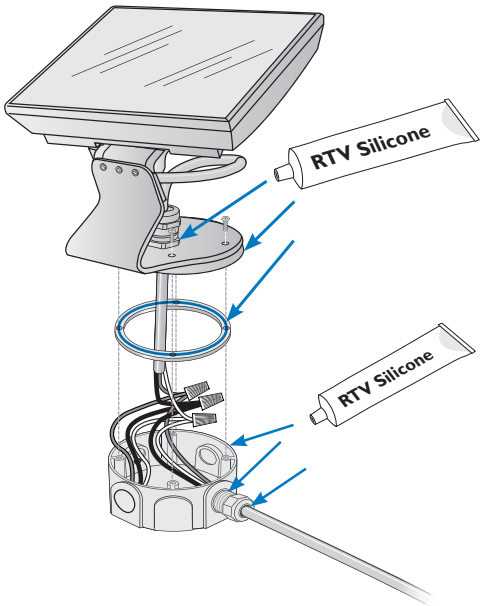
ColorBlast 12



Included in the box

ColorBlast 6 or ColorBlast 12 fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
Watertight grommet assembly
3/32 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

If installing in a wet or damp location, you must mount fixtures to outdoor-rated junction boxes, as described below.

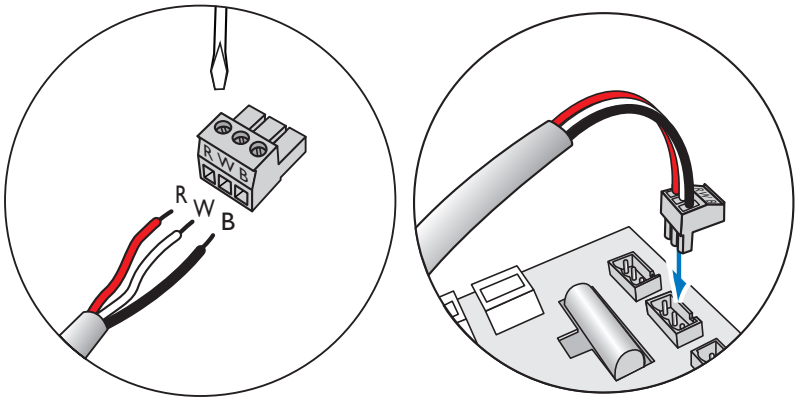


5. Insert the fixture cable through the provided junction box gasket, and pull the cable through the junction box.
6. If installing in a wet or damp location, seal all junction boxes with contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.
7. Using the provided 10-24 stainless steel screws, attach the fixture base to the junction box, ensuring that the gasket is compressed evenly.
8. Repeat steps 2 through 7 for each fixture in the installation.

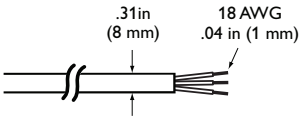
Make Power Connections

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

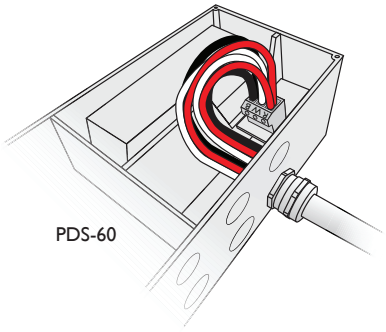
1. Pull cables from the fixtures to the power / data supply.
2. Pull each fixture cable through a knockout in the side of the power / data supply.
3. Connect line, common, ground, and data to a provided connector, then snap the connector into the connector terminal inside the power / data supply housing.

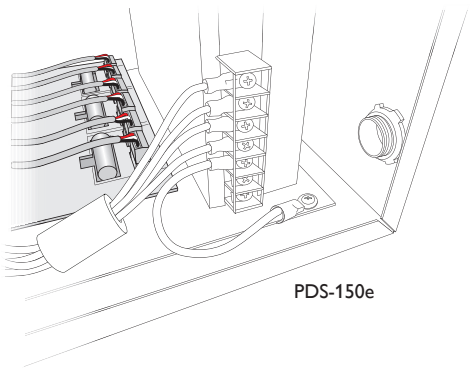


Fixture cable connector dimensions



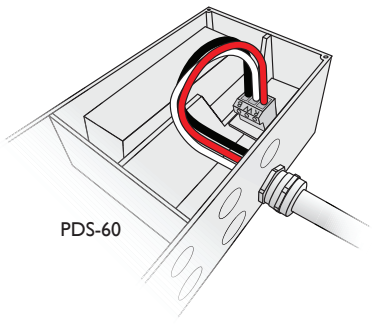
ColorBlast 12 wiring

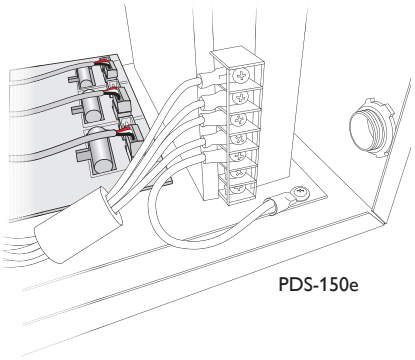




4. Using wire nuts, connect the green ground wire from each fixture cable to the earth ground on the power / data supply,

ColorBlast 6 wiring



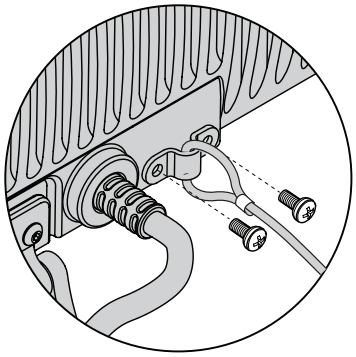


4. Repeat for each power / data supply in your installation.

Attach Safety Cable (Optional)

Each ColorBlast 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. Remove the two screws that attach the cable bracket, loop the safety cable over the cable bracket, and reattach to the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.

Safety cable bracket location on fixture



Safety cable minimum requirements

Material	316 Stainless Steel
Size	5/64 to 3/16 in (2 to 5 mm) nominal diameter. Minimum break load must be greater than 400 lb (181 kg)
Construction	7 x 7 (49 wires) preformed stranded

Address and Configure the Fixtures

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

Each ColorBlast fixture uses three sequential DMX channels or addresses, one for red, one for green, and one for blue. ColorBlast 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.

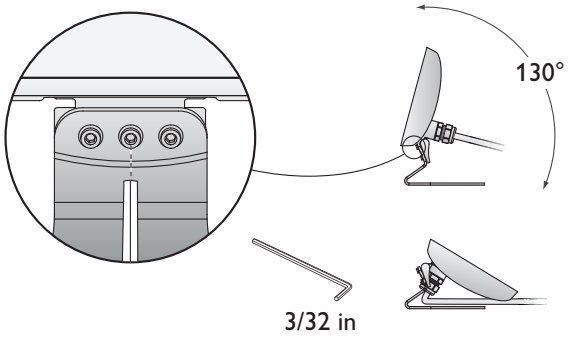
For complete details on addressing and configuring fixtures, controllers, and power / data supplies with QuickPlay Pro, refer to the *Addressing and Configuration Guide*, which you can view or download at www.philipscolorkinetics.com/support/addressing.

You can download QuickPlay Pro from www.philipscolorkinetics.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 the Fixtures

Using the provided 3/32 in hex key wrench, loosen the rotation and tilting set screws. Aim the fixtures by rotating the base and tilting the beam as desired. Tighten the two pairs of set screws to lock the fixture in place.



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

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