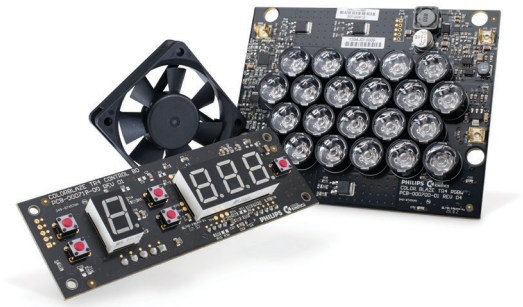
PHILIPS

COLOR KINETICS

ColorBlaze 72
Upgrade Kit

LED Luminaire

Date: _____
Type: _____
Firm Name: _____
Project: _____



ColorBlaze 72 Upgrade Kit

RGBW, 18° Beam Angle

Upgrade for ColorBlaze industry-standard theatrical and rental LED batten

The ColorBlaze Upgrade Kit retrofits any ColorBlaze 72 fixture to four-channel RGBW operation. Expanded on-board controls feature a range of new functions, including multiple color control modes, 8- and 16-bit resolution, a configurable intensity channel, transition speeds, dimming curves, improved color consistency with Chromasync technology, and three built-in effects (Fixed Color, Color Wash, and Chasing Rainbow).

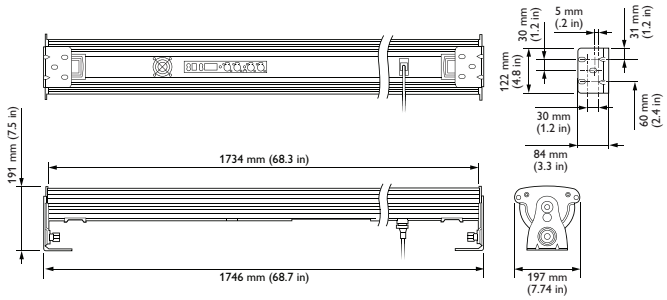
ColorBlaze 72 Upgrade Kit

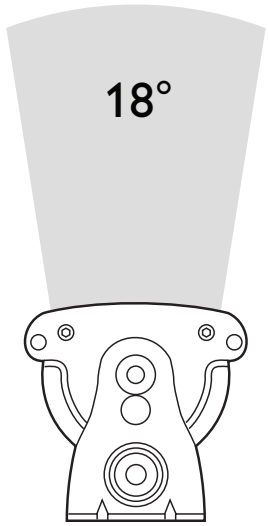
Upgrade for ColorBlaze industry-standard theatrical and rental LED batten

- Versatile, intense light output—Upgraded fixtures provide nearly double the lumen output. Controllable in increments of 152 mm (6 in) to 1.8 m (6 ft), fixtures deliver stunning effects and intense washes of color for flooding surfaces and stages.
- Expanded color palettes—Channels of amber or neutral white LEDs seamlessly blend with channels of red, green, and blue LEDs to produce significantly expanded color palettes. In addition to the millions of saturated colors achievable with standard RGB lighting fixtures, RGBW fixtures provide high-quality white light, while RGBA fixtures create intense yellows and an extended range of subtle pastel colors.
- Flexible color control—Choose from four-channel RGBW or RGBA in/out and three-channel RGB in mapped to four-channel RGBW or RGBA out.
- Superior color consistency and accuracy—Optibin, an advanced binning algorithm, sets a new standard for the color consistency and uniformity of LED sources used in manufacturing. Chromasync technology achieves unprecedented consistency of light performance and color precision across multiple fixtures in an installation, while maximizing intensity and color range.
- Adjustable dimming curves and transition speeds—16-bit resolution supports smooth dimming and precise color control. Adjustable dimming curves and LED transition speeds emulate the behavior of other Philips Color Kinetics fixtures and conventional theatrical fixtures with DMX dimming.
- Push-button addressing and configuration—Onboard addressing offers easy configuration without external addressing tools.
- Built-in effects—Offers Fixed Color, Color Wash, and Chasing Rainbow effects, without the need for an external controller.
- Upgrade Kit Components—The Upgrade Kit contains LED boards, a fan, a controller board, mounting hardware and jumper cables.

For detailed product information, please refer to the ColorBlaze 72 Upgrade Kit Product Guide at www.colorkinetics.com/ls/rgb/colorblaze-upgrade-kit

Dimensions





Specifications

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

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ColorBlaze 72 Upgrade Kit
RGBW, 18° Beam Angle

Output

Beam Angle	18°
Lumens†	12,690
Efficacy (lm/W)	38.3
LED Channels	Red/Green/Blue/White
Mixing Distance	152 mm (6 in) to uniform light

Electrical

Input Voltage	100–240 VAC, auto-switching, 50/60 Hz
Power Consumption *(Maximum at full output, steady state)*	420 W

Control

Interface	DMX
Control System	Philips Color Kinetics full range of controllers, including Light System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers

Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶	Calculated¶
L_{70}	25° C	71,000	
	50° C	71,000	
L_{50}	25° C	74,000	
	50° C	71,000	

Physical

Dimensions *(Height x Width x Depth)*	191 x 1746 x 165 mm (7.5 x 68.7 x 6.5 in)
Weight	27.2 kg (60 lb) *Fixture with upgrade kit*
Housing Material	Extruded aluminium, black finish
Lens	Clear polycarbonate
Fixture Connections	IEC power cable, RJ45, Ethercon, or XLR-5 data connections
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

Approbation	UL/cUL, CE, FCC Class A
Environment	Dry Location, IP20

c UL us LISTED CE

† 1.2 m (4 ft) lumen output measurements comply with IES LM-79-08 testing procedures. 1.6 m (6 ft) measurements are estimated based on the 1.2 m (4 ft) measurements.

§ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

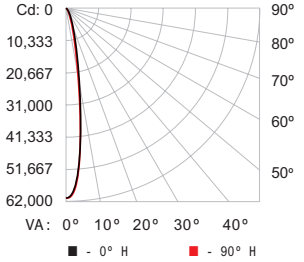
¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

ColorBlaze 72 Upgrade Kit Photometrics 48 inch, RGBW, 18° beam angle

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

Beam Angle	18°
LED	RGBW
Lumens	8,460
Efficacy (lm/W)	38.3

Polar Candela Distribution

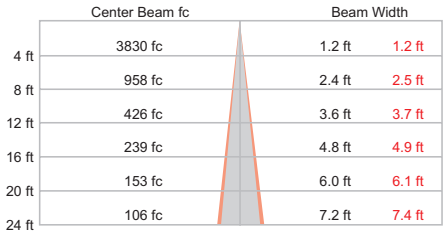


	0	25	45	70	90
0	61285	61285	61285	61285	61285
5	49001	48452	47817	47652	47199
15	8880	8739	8506	8256	7937
25	1723	1575	1500	1435	1376
35	781	598	526	533	520
45	468	313	320	320	302
55	297	213	214	204	208
65	173	143	134	127	123
75	86	77	77	73	69
85	50	46	45	43	43
90	40	40	39	37	37

Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	8183.5	96.7 %
60 - 90	276.7	3.3 %
0 - 90	8460.2	100 %

Illuminance at Distance



248 ft (75.6 m)
1 fc maximum distance

Vert. Spread: 17.1°
Horiz. Spread: 17.5°

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	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	96	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	105	102	92	101	99	97	99	97	95	96	94	93	91
3	106	101	97	94	105	100	96	89	98	95	92	95	93	91	93	91	89	88
4	103	97	93	90	101	96	92	86	94	91	88	92	89	87	91	88	86	85
5	100	94	89	86	98	93	89	83	91	88	85	90	87	84	88	86	84	82
6	97	91	86	83	96	90	86	81	88	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	79	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	85	81	77	84	80	78	83	80	77	82	79	77	76
9	90	83	79	76	89	83	79	75	82	78	76	81	78	76	80	77	75	74
10	88	81	77	74	87	81	77	74	80	77	74	79	76	74	79	76	74	73

For lux multiply fc by 10.7

Fixture and Accessories

Use Item Number when ordering in North America.

Fixture	Item Number	Philips 12NC
ColorBlaze 72 Upgrade Kit *RGBW, 18° Beam Angle*	116-000036-01	910503704680

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Philips Color Kinetics
www.philips.com/colorkinetics