Date: _____ Type: _____

Firm Name: _____

Project: _____

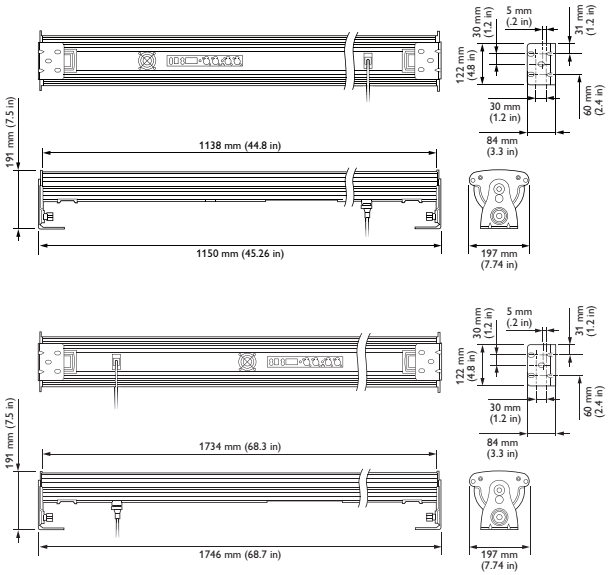
ColorBlaze Upgrade Kit

RGBA

Upgrade for ColorBlaze industry-standard theatrical and rental LED batten

The ColorBlaze Upgrade Kit retrofits any ColorBlaze 48 or ColorBlaze 72 fixture to four-channel RGBA 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).

- Versatile, intense light output — Upgraded fixtures provide significant improvements in 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 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, ColorBlaze 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.
- Pushbutton 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.



For detailed product information, please refer to the ColorBlaze Product Guide at www.colorkinetics.com/ls/rgb/colorblazeupgrade/

PHILIPS

Specifications

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

Item	Specification	ColorBlaze 48	ColorBlaze 72
Output	Beam Angle	10° / 18°	
	Lumens*	7805 (10°) 7888 (18°)	11707 (10°) 11832 (18°)
	LED Channels	Red / Green / Blue / White or Amber	
	Mixing Distance	6 in (152 mm) to uniform light	
	Lumen Maintenance†	71,000 hours L_{70} @ 50° C 71,000 hours L_{70} @ 25° C	
		71,000 hours L_{50} @ 50° C 74,000 hours L_{50} @ 25° C	
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz	
	Power Consumption	280 W	420 W
Control	Interface	DMX	
	Control System	Philips full range of controllers, including ColorDial Pro, Light System Manager, and iPlayer 3, or third-party controllers	
Physical	Dimensions *(Height x Width x Depth)*	191 x 1150 x 165 mm (7.5 x 68.7 x 6.5 in)	
	Weight	18.1 kg (40 lb)	
	Housing	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	Certification	UL / cUL, CE	
	Environment	Dry Location, IP20	

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

† L_{70} = 70% lumen maintenance (when light output drops below 70% of initial output). 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/lm-80-08.pdf for more information

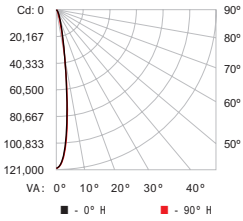
ColorBlaze Upgrade Kit

Fixture	Beam Angle	Item Number	Philips 12NC
ColorBlaze 48 Upgrade Kit	10°	116-000037-00	910503704724
	18°	116-000035-00	910503704677
ColorBlaze 72 Upgrade Kit	10°	116-000038-00	910503704725
	18°	116-000036-00	910503704679

Use Item Number when ordering in North America.

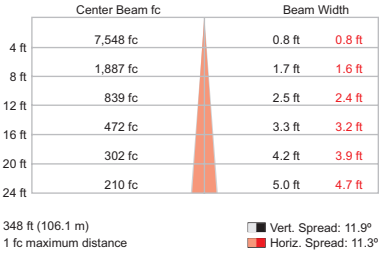
ColorBlaze 48 with Upgrade Kit, RGBA, 10° Beam Angle

Polar Candela Distribution



	0	25	45	70	90
0	120770	120770	120770	120770	120770
5	71580	70059	66912	64628	63989
15	6005	6383	6618	6187	5860
25	747	885	984	720	747
35	235	269	257	267	335
45	137	142	141	153	189
55	101	103	105	107	126
65	79	80	81	82	94
75	58	56	56	58	66
85	41	41	42	43	44
90	37	31	38	38	38

Illuminance at Distance



348 ft (106.1 m)
1 fc maximum distance

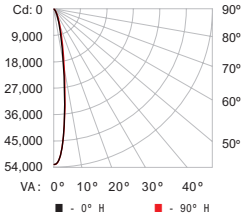
Vert. Spread: 11.9°
Horiz. Spread: 11.3°

Lumens	Efficacy
7805	35.2 lm / W

For lux multiply fc by 10.7

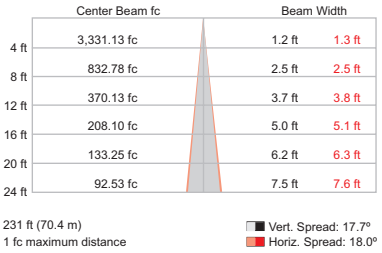
ColorBlaze 48 with Upgrade Kit, RGBA, 18° Beam Angle

Polar Candela Distribution



	0	25	45	70	90
0	53298	53298	53298	53298	53298
5	41242	41171	41238	41463	42442
15	7815	8095	7997	8014	7964
25	1610	1538	1489	1456	1400
35	722	569	507	518	505
45	436	296	302	302	284
55	281	202	200	192	196
65	162	134	126	119	117
75	81	70	72	68	65
85	44	42	40	39	39
90	37	36	35	34	34

Illuminance at Distance



231 ft (70.4 m)
1 fc maximum distance

Vert. Spread: 17.7°
Horiz. Spread: 18.0°

Lumens	Efficacy
7888	35.6 lm / W

For lux multiply fc by 10.7

Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.385.5742
Tel 617.423.9999
Fax 617.423.9998
www.colorkinetics.com

Copyright © 2014 Philips Solid-State Lighting Solutions, Inc. All rights reserved. Chromacore, Chromasic, CK, the CK logo, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorBlaze, ColorBurst, ColorGraze, ColorPlay, ColorReach, iW Reach, eW Reach, DIMand, EssentialWhite, eW, iColor, iColor Cove, IntelliWhite, iW, iPlayer, Optibin, and Powercore are either registered trademarks or trademarks of Philips Solid-State Lighting Solutions, Inc. in the United States and / or other countries. All other brand or product names are trademarks or registered trademarks of their respective owners. Due to continuous improvements and innovations, specifications may change without notice.

DAS-000132-02 R00 1-14