

Blast Powercore gen5, RGBA

Date: _____

Type: _____

Firm Name: _____

Project: _____

**100 – 277 VAC, 40° Spread Lens, Gray Housing,
UL/CE/CQC**

Exterior versatile and customizable luminaire with intelligent RGBA light

Blast Powercore gen5, RGBA high-performance LED luminaires combine white and rich, saturated, color and color-changing effects with simplified installation. Blast Powercore gen5 offers a range of accessories that allow 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 aluminium housing.



- Expands customization with a wide range of new accessory options. In addition to the native 10° lens, five different spread lenses can customize the luminaire 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 luminaires 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 luminaires. When Chromasync is enabled, color consistency between luminaires is achieved without having to manually adjust color points on each luminaire.
- 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 Blast Powercore gen5 luminaire.
- Improves durability with new flat lens that prevents water from pooling into the luminaire, keeping the LEDs protected and secure over the course of a luminaire's lifetime.
- Integrates patented Powercore technology that controls power output to luminaires directly from line voltage – rapidly, efficiently, and accurately. The Color Kinetics Data Enabler Pro merges line voltage with control data and delivers them to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost.
- Universal power input range of 100 to 277 VAC.
- Works seamlessly with the complete Color Kinetics line of controllers, including ColorDial Pro, iPlayer 3, and Light System Manager – as well as third-party controllers.

For detailed product information, please refer to the Blast Product Guide at <https://www.colorkinetics.com/global/products/rgb/blast-powercore-gen5-rgba>

Specifications

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

Output

Beam Angle	40°
Lumens †	2,037
Efficacy (lm/W)	43.8
LED Channels	Red/Green/Blue/Amber

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	46.4 W
Power Factor	0.99 @ 120 VAC 0.91 @ 277 VAC
Surge Limits ¶	2 kV maximum differential (L to N) 4 kV maximum common (L to Gnd or N to Gnd)

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Control

Interface	Data Enabler Pro (DMX/Ethernet)
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Control System

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

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L 90	25 °C	>39,715	>39,715
	50 °C	>39,715	>39,715
L 80	25 °C	>60,000	>98,607
	50 °C	>60,000	>98,607
L 70	25 °C	>60,000	>100,000
	50 °C	>60,000	>100,000
L 50	25 °C	-	>100,000
	50 °C	-	>100,000

Physical

Dimensions (Height x Width x Depth)	183.7 x 337.8 x 171.2 mm (7.2 x 13.2 x 6.74 in)
Weight	3.9 kg (8.2 lb)
Effective Projected Area (EPA)	0.068 m² (0.73 ft²) (Luminaire plus Full Glare Shield)
Housing Material	Die-cast aluminium, gray powder-coated finish
Lens	Clear tempered glass
Luminaire Connections	1.8 m (6 ft) unified power/data cable

Temperature Ranges

-40 to 50 °C (-40 to 122 °F) Operating
-20 to 50 °C (-4 to 122 °F) Startup
-40 to 80 °C (-40 to 176 °F) Storage

Vibration Resistance

Complies with ANSI C136.31, 3G

Mechanical Impact	IK10
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Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing
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Thermal Protection enabled

For additional Thermal Protection information, please refer to <https://colorkinetics.helpdocs.io/article/sh301ducix>

Luminaire Run Lengths

To calculate luminaire run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/

Certification and Safety

Approbation	UL/cUL, FCC Class A, CE, PSE, CQC, RCM
Environment	Dry/Damp/Wet Location, IP66

For additional Energy Efficiency Class Information, please refer to <https://colorkinetics.helpdocs.io/article/cvis2p8qq>.



† Native beam lumen output measurements comply with IES LM-79-08 testing procedures. All other beam angle measurements are estimated based on the native beam 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.

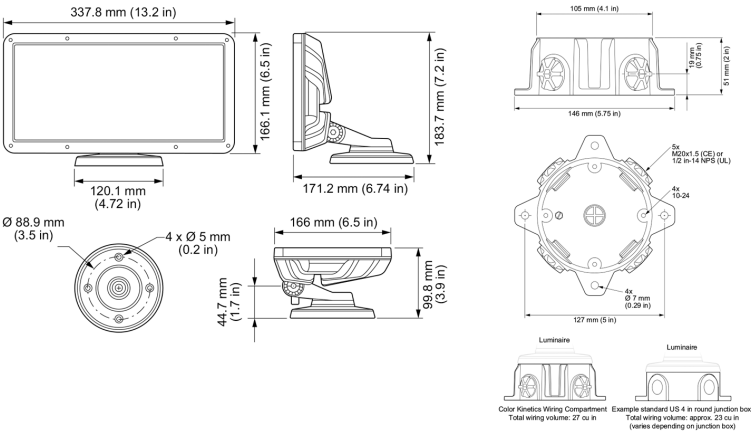
¶ Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

¶¶ When mounting to a junction box, the Color Kinetics wiring compartment accessory must be used to maintain a 3G vibration rating.

¶¶¶ 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.



Dimensions

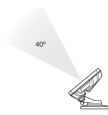


Photometrics 40° frosted lens

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

Beam Angle	40°
LED	RGBA
Lumens	2,037.0
Efficacy (lm/W)	43.8

Illuminance at Distance



	Center Beam fc	Beam Width
4 ft	161.5 fc	3.4 ft 3.4 ft
8 ft	40.4 fc	6.9 ft 6.9 ft
12 ft	17.9 fc	10.3 ft 10.3 ft
16 ft	10.1 fc	13.8 ft 13.7 ft
20 ft	6.5 fc	17.2 ft 17.1 ft
24 ft	4.5 fc	20.6 ft 20.6 ft

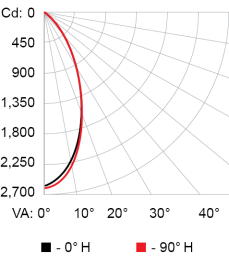
15.2 m (50 ft)
1 fc maximum distance
Vert. Spread: 46.5°
Horiz. Spread: 46.4°

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1306.5	64.2%
0-40	1666.2	81.9%
0-60	1960.7	96.4%
60-90	70.1	3.4%
70-100	25.3	1.2%
90-120	0.4	0.0%
0-90	2030.7	99.8%
90-180	4.1	0.2%
0-180	2034.9	100.0%

For lux multiply fc by 10.7

Polar Candela Distribution



	0	25	45	70	90
0	2583	2583	2583	2583	2583
5	2485	2498	2507	2523	2529
15	1907	1899	1897	1923	1942
25	1125	1123	1103	1144	1181
35	555	558	547	594	628
45	249	247	252	273	291
55	97	100	104	110	119
65	42	44	46	49	50
75	18	20	21	22	22
85	3	4	5	5	5
90	0	0	0	0	0

Coefficients of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																			
RCC %:		80				70				50				30				0			
RW %:		70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0
1	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
2	1.13	1.10	1.07	1.05	1.10	1.08	1.05	0.92	1.03	1.01	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.92	0.92	0.92	0.92
3	1.07	1.01	0.97	0.93	1.04	0.99	0.95	0.85	0.96	0.93	0.90	0.88	0.90	0.90	0.88	0.86	0.84	0.84	0.84	0.84	0.84
4	1.01	0.94	0.88	0.84	0.99	0.92	0.87	0.79	0.89	0.85	0.82	0.87	0.83	0.80	0.85	0.82	0.79	0.78	0.78	0.78	0.78
5	0.95	0.87	0.81	0.76	0.93	0.86	0.80	0.73	0.84	0.79	0.75	0.81	0.77	0.74	0.80	0.76	0.73	0.72	0.72	0.72	0.72
6	0.90	0.81	0.75	0.70	0.88	0.80	0.74	0.68	0.78	0.73	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.66	0.66	0.66	0.66
7	0.85	0.76	0.69	0.65	0.84	0.75	0.69	0.63	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.62	0.62	0.62	0.62
8	0.81	0.71	0.65	0.60	0.79	0.70	0.64	0.59	0.69	0.64	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.58	0.58	0.58	0.58
9	0.77	0.67	0.61	0.56	0.76	0.66	0.60	0.55	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.54	0.54	0.54	0.54
10	0.73	0.63	0.57	0.53	0.72	0.63	0.57	0.52	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.51	0.51	0.51	0.51
11	0.70	0.60	0.54	0.50	0.69	0.59	0.53	0.49	0.58	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.48	0.48	0.48	0.48

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire

Blast Powercore gen5, RGBA, 100 – 277 VAC, Gray Housing, UL/CE/CQC
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.

Item Number	Item 12NC
423-000028-04	912400137703

Associated Part

40° Spread lens	120-000185-09	912400130345
Trim Ring required for mounting. Must be ordered separately.		

Accessories

Trim Ring, Gray	120-000185-15	912400133530
Louver, Gray	120-000185-17	912400133532
Rock Guard, Gray	120-000185-18	912400133533
Half Glare Shield, Gray	120-000185-19	912400133534
Full Glare Shield, Gray	120-000185-16	912400133531
Wiring Compartment UL/cUL, Gray	106-000011-32	910503704149
Wiring Compartment CE, Gray	106-000011-42	910503703277
Architectural Mounting Arm, for use with Blast, Graze, Graze Compact, Burst Architectural, and Vaya Flood. Short, gray	120-000206-00	912400136642
Architectural Mounting Arm, for use with Blast, Graze, Graze Compact, Burst Architectural, and Vaya Flood. Medium, gray	120-000206-01	912400136643
Architectural Mounting Arm, for use with Blast, Graze, Graze Compact, Burst Architectural, and Vaya Flood. Long, gray	120-000206-02	912400136644

Power Supplies

Data Enabler Pro, 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211



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Color Kinetics
<https://www.colorkinetics.com/global/products/rgb/blast-powercore-gen5-rgba>

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