ColorBurst Powercore gen2

RGBA, 10° Spread Lens, Black Housing, Landscape

Architectural and landscape LED spotlight with intelligent color light

ColorBurst Powercore gen2 is a high-output, exterior-rated LED lighting luminaire designed for accent and site lighting. Standard format Architectural and Landscape luminaires deliver full-color light output of up to 1,151 lumens to support a range of dynamic uplighting, floodlighting, and decorative lighting applications.

- Expands customization with a wide range of new accessory options. In addition to the native 8° lens, six different spread lenses can customize the luminaire to produce 10°, 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric) beam angles. Four housing color choices (black, gray, white, and bronze)—plus the option to add a louver, 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.

- Complies with ASTM B117 corrosion resistance standard for > 1,500 hours.

- 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 ColorBurst Powercore gen2 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 ColorBurst Powercore gen2 Product Guide at www.colorkinetics.com/ls/rgb/ColorBurst-Powercore-RGBA-gen2/

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Specifications

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

Output

Beam Angle	10°
Lumens All Channels Full On[†]	1,007
Efficacy (lm/W) All Channels Full On	31.4
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)	33 W
Power Factor	> 0.9 @ 100 to 240 VAC > 0.85 @ 277 VAC

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

Control

Interface	Data Enabler Pro (DMX/Ethernet)

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	ActiveSite Ready, works with Interact Landmark

Lumen Maintenance

Threshold[§]	Ambient Temperature	Reported[¶]	Calculated[¶]
L_{90}	25 °C	11,357	11,357
	50 °C	10,488	10,488
L_{80}	25 °C	35,713	35,713
	50 °C	27,019	27,019
L_{70}	25 °C	> 54,000	63,326
	50 °C	45,761	45,761
L_{50}	25 °C	> 54,000	> 100,000
	50 °C	> 54,000	92,986

Physical

Dimensions (Height x Width x Depth)	272 x 163 x 185 mm (10.7 x 6.42 x 7.28 in)
Weight	3.5 kg (7.7 lb)
Effective Projected Area (EPA)	26053 mm²
Housing Material	Die-cast aluminium, powder-coated finish
Lens	Clear tempered glass
Luminaire Connections	152 mm (6 in) flying leads

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

Mechanical Impact	IK08

Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing

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

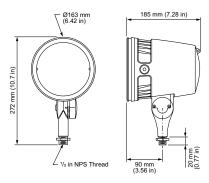|	
Approbation	UL/cUL, FCC Class A, CE, PSE, CQC, RCM
Environment	Dry/Damp/Wet Location, IP66

[†] Lumen measurement complies with IES LM-79-08 testing procedures.

[§] L50 = 50% lumen maintenance (when light output drops below 50% 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.

Dimensions

Ø163 mm (6.42 in) · 185 mm (7.28 in) · 272 mm (10.7 in) · ½ in NPS Thread · 90 mm (3.56 in) · 20 mm (0.77 in)
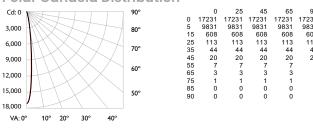
Photometrics, 10° spread lens

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

Beam Angle	10°
LED	RGBA
Lumens All Channels Full On	1,007
Efficacy (lm/W) All Channels Full On	31.4

Polar Candela Distribution

	0	25	45	65	90
0	17231	17231	17231	17231	17231
5	9831	9831	9831	9831	9831
15	608	608	608	608	608
25	113	113	113	113	113
35	44	44	44	44	44
45	20	20	20	20	20
55	7	7	7	7	7
65	3	3	3	3	3
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

■ - 0° H   ■ - 90° H

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	952.3	94.5%
0-40	980.4	97.3%
0-60	1003.0	99.6%
60-90	3.9	0.4%
70-100	1.3	0.1%
90-120	0.1	0.0%
0-90	1006.9	99.9%
90-180	0.5	0.1%
0-180	1007.4	100.0%

Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	1,076.96 fc	0.8 ft
8 ft	269.24 fc	1.6 ft
12 ft	119.66 fc	2.4 ft
16 ft	67.31 fc	3.2 ft
20 ft	43.08 fc	4 ft
24 ft	29.92 fc	4.8 ft

131 ft (40 m)
1 fc maximum distance

■ Vert. Spread: 11.4°

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	1.16	1.14	1.12	1.11	1.13	1.12	1.10	0.98	1.08	1.07	1.06	1.04	1.03	1.03	1.01	1.00	1.00	0.98
2	1.13	1.10	1.07	1.05	1.11	1.08	1.06	0.97	1.05	1.03	1.02	1.02	1.01	1.00	1.00	0.98	0.98	0.96
3	1.10	1.06	1.03	1.01	1.08	1.05	1.02	0.95	1.03	1.00	0.99	1.00	0.99	0.97	0.98	0.97	0.96	0.94
4	1.08	1.03	1.00	0.98	1.06	1.02	0.99	0.93	1.00	0.98	0.96	0.99	0.97	0.95	0.97	0.95	0.94	0.93
5	1.05	1.01	0.97	0.95	1.04	1.00	0.97	0.92	0.98	0.96	0.94	0.97	0.95	0.93	0.96	0.94	0.92	0.91
6	1.03	0.99	0.95	0.93	1.02	0.98	0.95	0.91	0.97	0.94	0.92	0.96	0.93	0.92	0.94	0.93	0.91	0.90
7	1.02	0.97	0.93	0.91	1.01	0.96	0.93	0.90	0.95	0.92	0.91	0.94	0.92	0.90	0.93	0.91	0.90	0.89
8	1.00	0.95	0.92	0.90	0.99	0.95	0.92	0.88	0.94	0.91	0.89	0.93	0.91	0.89	0.92	0.90	0.89	0.88
9	0.99	0.93	0.90	0.88	0.98	0.93	0.90	0.87	0.92	0.90	0.88	0.92	0.89	0.88	0.91	0.89	0.88	0.87
10	0.97	0.92	0.89	0.87	0.96	0.92	0.89	0.86	0.91	0.89	0.87	0.91	0.88	0.87	0.90	0.88	0.87	0.86

For lux multiply fc by 10.7

Luminaire and Accessories

Luminaire	Item Number	Item 12NC
ColorBurst Powercore gen2 *RGBA, Black Housing, Landscape*	423-000005-23	912400135487
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.		

Associated Part		
10° Spread Lens	120-000189-18	912400135371
Trim Ring or Glare Shield required for mounting. Must be ordered separately.		

Accessories		
Trim Ring gen2, Black	120-000189-21	912400135450
Half Glare Shield gen2, Black	120-000189-25	912400135454
Full Glare Shield gen2, Black	120-000189-29	912400135458
Louver	120-000189-17	912400133447
Wiring Compartment, 4 in diameter, Black, CE	106-000011-40	910503703275
Wiring Compartment, 4 in diameter, Black, UL	106-000011-30	910503704147

Power/Data 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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www.colorkinetics.com/ls/rgb/ColorBurst-Powercore-RGBA-gen2/

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