ColorBurst Compact Powercore

41° Spread Lens, White Housing, CQC, Architectural

Compact architectural and landscape LED spotlight with intelligent color light

ColorBurst Compact Powercore is a high-output, exterior-rated LED lighting luminaire designed for accent and site lighting. Architectural and landscape luminaires deliver full-color light output of up to 498 lumens to support a range of uplighting, floodlighting, and decorative lighting applications.

- Integrates patented Powercore technology—Powercore technology rapidly, efficiently, and accurately controls power output to luminaires directly from line voltage. The Color Kinetics Data Enabler Pro merges line voltage and control data and delivers them to the luminaire over a single standard cable, dramatically simplifying installation and lowering total system cost.

- Support for a wide range of architectural and landscape applications—Architectural luminaires feature an integrated yoke with canopy base for mounting to standard US junction boxes or directly to a flat surface or substrate as local codes permit. Landscape luminaires feature a 0.5 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories for use in softscape and hardscape applications.

- Outdoor rated—With a rugged, die-cast aluminium housing fully sealed for maximum luminaire life and IP66-rated for outdoor applications, ColorBurst Compact Powercore is ideal for use in damp or wet locations.

- Exchangeable optics and accessories—Available 14°, 23°, 41°, and asymmetric 10° x 41° spread lenses project a soft-edge beam to support a wide range of lighting applications. Native 8° beam angle offers extended light projection.

- Versatile light positioning—ColorBurst Compact Powercore luminaires can tilt through a full 180°. ColorBurst Powercore Architectural luminaires can also rotate through a full 360° for precise aiming. Locking nuts accept standard hex wrenches to secure luminaires firmly in position.

- Universal power input range—ColorBurst Compact Powercore accepts a universal power input range of 100 to 240 VAC, allowing long luminaire runs and consistent installation in any location around the world.

- Industry-leading controls—ColorBurst Compact Powercore works seamlessly with the complete line of Color Kinetics controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.

For detailed product information, please refer to the ColorBurst Compact Powercore Product Guide at www.colorkinetics.com/ls/rgb/colorburstcompactpc/

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Specifications

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

Output

Beam Angle	41°
Lumens†	405
Efficacy (lm/W)	19.9
LED Channels	Red/Green/Blue

Electrical

Input Voltage	100 to 240 VAC, auto-ranging, 50/60 Hz via Data Enabler Pro
Power Consumption (Maximum at full output, steady state)	17.5 W

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$_{50}$	25 °C 50 °C	100,000 90,000	

Physical

Dimensions (Height x Width x Depth)	250 x 114 x 178 mm (9.85 x 4.5 x 7.0 in)
Weight	3.9 kg (8.7 lb)
Housing Material	Die-cast aluminium, powder-coated finish
Lens	Tempered glass
Luminaire Connections	1.8 m (6 ft) unified power/data cable with 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

Vibration Resistance

Complies with ANSI C136.31, 3G

Mechanical Impact	IK07
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

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Approbation	CE, CQC
Environment	Dry/Damp/Wet Location, IP66

CE

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† Lumen output measurements comply with IES LM-79-08 testing procedures.

§ 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.

Dimensions

178 mm (7 in)

143 mm (5.625 in)

250 mm (9.85 in)

8 mm hex
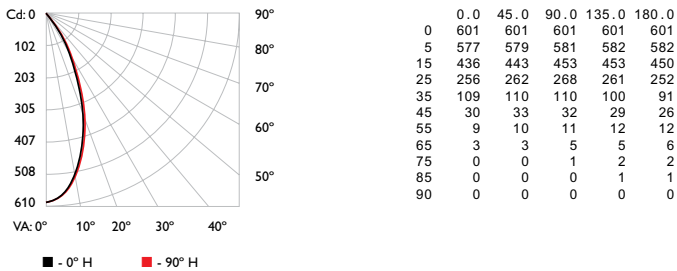(5/16 in hex)

114 mm
(4.5 in)
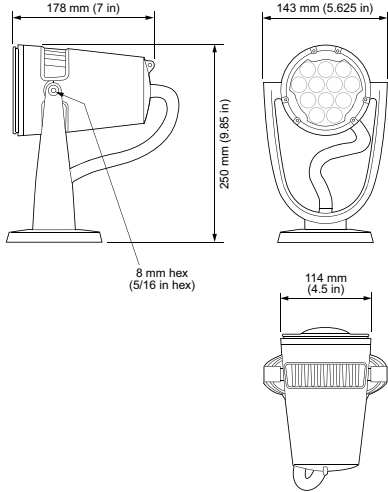
Photometrics, 41° spread lens

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	41°
LED	RGB
Lumens	405
Efficacy (lm/W)	19.9

41°

Polar Candela Distribution

	0.0	45.0	90.0	135.0	180.0
0	601	601	601	601	601
5	577	579	581	582	582
15	436	443	453	453	450
25	256	262	268	261	252
35	109	110	110	100	91
45	30	33	32	29	26
55	9	10	11	12	12
65	3	3	5	5	6
75	0	0	1	2	2
85	0	0	0	1	1
90	0	0	0	0	0

■ - 0° H   ■ - 90° H

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	296	73.2
0- 40	364	89.7
0- 60	399	98.5
0- 90	405	100.0
90-180	0	0.0
0-180	405	100.0

Illuminance at Distance

	Center Beam fc	Beam Width	
4.0 ft	38 fc	3.3 ft	3.4 ft
8.0 ft	9 fc	6.7 ft	6.9 ft
12.0 ft	4 fc	10.0 ft	10.3 ft
16.0 ft	2 fc	13.3 ft	13.8 ft
20.0 ft	2 fc	16.6 ft	17.2 ft
24.0 ft	1 fc	20.0 ft	20.6 ft

■ Vert. Spread: 45.2°
■ Horiz. Spread: 46.5°
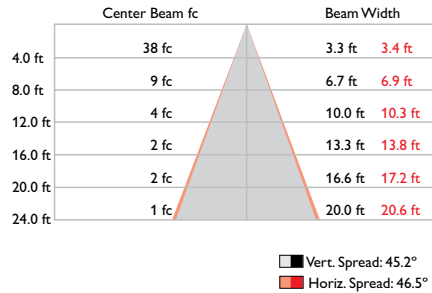
Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	105	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	87	92	88	85	90	86	84	87	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	75	91	83	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	55	72	63	58	54	63	58	54	62	57	54	61	57	54	53

For lux multiply fc by 10.7

Luminaire and Accessories

Luminaire	Item Number	Item 12NC
ColorBurst Compact Powercore *White Housing, CQC, Architectural*	123-000019-08	910503701822
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.		

Associated Part		
41° Spread lens	120-000080-06	910503701417
Trim Ring or Glare Shield required for mounting. Must be ordered separately.		

Accessories		
Trim Ring, White	120-000103-15	910503701826
45° Glare Shield, White	120-000103-16	910503701827
Full Height Glare Shield, White	120-000103-17	910503701828
Honeycomb Louver, Black	120-000104-01	910503701419
Mounting Arm, Short, White	120-000201-06	912400135846
Mounting Arm, Medium, White	120-000201-07	912400135847
Mounting Arm, Long, White	120-000201-08	912400135848
Wiring Compartment, 4 in diameter, White, CE	106-000011-41	910503703276
Wiring Compartment, 4 in diameter, White, UL	106-000011-31	910503704148

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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29 Jan 2019