

eW Burst Compact Powercore

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

2700 K, 23° Spread Lens, Black Housing, UL/cUL/CE, Landscape

Compact architectural and landscape LED spotlight with solid white light

eW Burst Compact Powercore is a high-output, exterior LED spotlight designed for accent and site lighting. Architectural and landscape versions deliver high-quality white light in a warm 2700 K and a neutral 4000 K to support a range of uplighting, floodlighting, and decorative lighting applications.



- Integrates patented Powercore technology—Powercore rapidly, efficiently, and accurately controls power output to luminaires directly from line voltage, eliminating the need for an external power supply. Contractor-friendly installation dramatically simplifies installation and lowers 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 1/2 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories such as stanchion mounts, posts, and stakes for use in softscape and hardscape applications.
- 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. Available glare shields block spill light, while honeycomb louvers limit the spread of light for a more focused and intense beam.
- Versatile light positioning—Luminaires can tilt through a full 180°. Architectural luminaires can also rotate through a full 360° for precise aiming. Locking screws accept standard hex wrenches to secure luminaires firmly in position.
- Universal power input range—Accepts a universal power input range of 100 to 277 VAC, allowing the installation of multiple units in a continuous run.
- Dimming capability—Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.
- Outdoor rated—With a rugged, die-cast aluminium housing fully sealed for maximum luminaire life and IP66-rated for outdoor applications, eW Burst Compact Powercore is ideal for use in damp or wet locations.

For detailed product information, please refer to the eW Burst Compact Powercore Product Guide at www.colorkinetics.com/ls/essentialwhite/ewburstcompactpc/

Specifications

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

Output

Color Temperature*	2700 K
Beam Angle	23°
Lumens†	540
Efficacy (lm/W)	36.2
CRI	83

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	15 W
Power Factor	0.99 @ 120 VAC

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

Control

Dimmer‡

Compatible with selected commercially available reverse-phase ELV-type dimmers

Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶	Calculated¶
L ₇₀	25 °C	90,000	
	50 °C	50,000	
L ₅₀	25 °C	> 100,000	
	50 °C	90,000	

Physical

Dimensions (Height x Width x Depth)	205 x 114 x 178 mm (8.06 x 4.5 x 7.0 in)
Weight	2 kg (4.4 lb)
Housing Material	Die-cast aluminium, powder-coated finish
Lens	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	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

Approbation	UL/cUL, FCC Class A, CE, CQC, C-Tick, SAA
Environment	Dry/Damp/Wet Location, IP66



* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

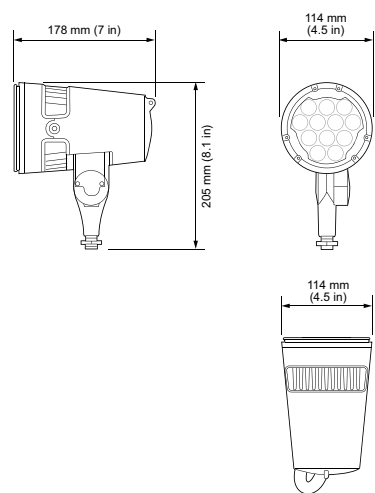
† Lumen output measurements comply with IES LM-79-08 testing procedures.

‡ Refer to www.colorkinetics.com/support/appnotes/ for more information.

§ 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



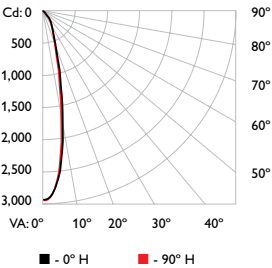
Photometrics, 2700 K, 23° spread lens

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	23°
LED	2700 K
Lumens	540
Efficacy (lm/W)	36.2



Polar Candela Distribution



Candela Table					
0.0	45.0	90.0	135.0	180.0	0
0	2971	2971	2971	2971	2971
5	2520	2544	2580	2600	2592
15	762	776	783	764	747
25	124	125	121	111	105
35	36	37	37	36	34
45	15	16	17	19	17
55	6	6	8	9	9
65	1	2	3	4	4
75	0	0	1	1	2
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance

	Center Beam fc	Beam Width	
4.0 ft	186 fc	1.5 ft	1.5 ft
8.0 ft	46 fc	3.0 ft	3.0 ft
12.0 ft	21 fc	4.5 ft	4.6 ft
16.0 ft	12 fc	6.0 ft	6.1 ft
20.0 ft	7 fc	7.5 ft	7.6 ft
24.0 ft	5 fc	9.0 ft	9.1 ft

Vert. Spread: 21.3°
Horiz. Spread: 21.6°

Coefficients of Utilization - Zonal Cavity Method

RC	80				70				50				30				10				Effective Floor Cavity Reflectance: 20%
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
0	1191	191	191	191	19	1161	161	161	116	111	111	111	1061	1061	106	1021	1021	102	100		
1	1151	131	111	110	9	1131	111	109	107	107	105	104	1031	1021	101	100	99	98	96		
2	1111	107	104	102	2	1091	106	103	101	103	100	98	100	98	96	97	96	94	93		
3	1071	103	99	96	1	1061	101	98	95	99	96	94	97	94	92	94	93	91	90		
4	104	99	95	92	0	102	98	94	91	96	92	90	94	91	89	92	90	88	87		
5	101	95	91	88	0	100	94	90	87	93	89	87	91	88	86	90	87	85	84		
6	98	92	88	85	0	97	91	87	84	90	86	84	89	86	83	87	85	83	82		
7	95	89	85	82	0	94	88	84	82	87	84	81	86	83	81	85	82	80	79		
8	93	86	82	79	0	92	86	82	79	85	81	79	84	81	79	83	80	78	77		
9	90	84	80	77	0	90	83	80	77	83	79	77	82	79	77	81	78	76	75		
10	88	82	78	75	0	88	81	78	75	81	77	75	80	77	75	79	77	74	74		

Zonal Lumen

Zonal Lumen Summary		
ZONE	LUMENS	%FIXT
0- 30	492	91.2
0- 40	516	95.5
0- 60	536	99.3
0- 90	540	100.0
90-180	0	0.0
0-180	540	100.0

For lux multiply fc by 10.7

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire

	Item Number	Item 12NC
eW Burst Compact Powercore 2700 K, Black Housing, UL/cUL/CE, Landscape Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.	523-000059-08	910503701924

Associated Part

23° Spread lens	120-000080-05	910503701416
Trim Ring or Glare Shield required for mounting. Must be ordered separately.		

Accessories

Trim Ring, Black	120-000103-09	910503701823
45° Glare Shield, Black	120-000103-10	910503701824
Full Height Glare Shield, Black	120-000103-11	910503701825
Honeycomb Louver, Black	120-000104-01	910503701419
DM-1000 0-10 V ELV Dimmer	109-000036-00	912400135916



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Color Kinetics
www.colorkinetics.com/lis/essentialwhite/ewburstcompactpc/