

# eW Burst Compact Powercore

Date:

Type:

Firm Name:

Project:

**2700 K, 8° (No Spread Lens), Black Housing, UL/cUL, Architectural**

## Exterior compact architectural and landscape spotlight with single temperature 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.
- 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 Burst Product Guide at [www.colorkinetics.com/global/products/essentialwhite/ewburstcompactpc/](http://www.colorkinetics.com/global/products/essentialwhite/ewburstcompactpc/)

# Specifications

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

## Output

Color Temperature *	2700 K
Beam Angle	8°
Lumens †	624
Efficacy (lm/W)	41.9
CRI	83

## Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption	15 W
(Maximum at full output, steady state)	
Power Factor	0.99 @ 120 VAC
Surge Limits ¶	1 kV maximum differential (L to N) 2 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](http://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	250 x 114 x 178 mm (9.85 x 4.5 x 7.0 in)
(Height x Width x Depth)	
Weight	3.9 kg (8.7 lb)
Housing Material	Die-cast aluminium, black 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

### Corrosion Resistance

Not suitable for salt spray or harsh chemical environments. Please refer to [www.colorkinetics.com/KB/corrosion-resistance](http://www.colorkinetics.com/KB/corrosion-resistance) for more information.

Humidity 0 to 95%, non-condensing

### 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/](http://www.colorkinetics.com/support/install_tool/)

## Certification and Safety

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

For additional Energy Efficiency Class Information, please refer to

<https://colorkinetics.helpdocs.io/article/cvis2p8qq>.



\* 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.

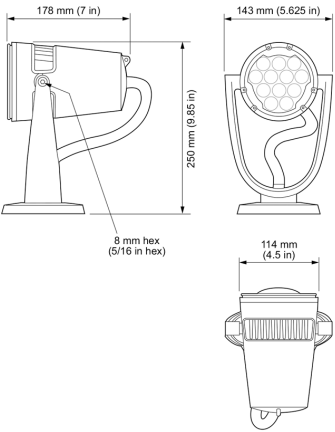
‡ Refer to [www.colorkinetics.com/support/appnotes/](http://www.colorkinetics.com/support/appnotes/) for more information.

§ 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.

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

¶¶ 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, 8° native (no spread 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](http://www.colorkinetics.com/global/support/ies).

Beam Angle	8°
LED	2700 K
Lumens	624.0
Efficacy (lm/W)	41.9



Illuminance at Distance

	Center Beam fc	Beam Width
4.0 ft	1295 fc	0.6 ft
8.0 ft	324 fc	1.2 ft
12.0 ft	144 fc	1.8 ft
16.0 ft	81 fc	2.4 ft
20.0 ft	52 fc	3.0 ft
24.0 ft	36 fc	3.6 ft

Zonal Lumen

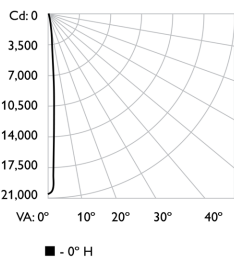
Zonal Lumen Summary		
ZONE	LUMENS	%FIXT
0 - 30	576	92.2
0 - 40	597	95.6
0 - 60	619	99.1
0 - 90	624	100.0
90 - 180	0	0.0
0 - 180	624	100.0

43.9 m (144 ft)  
1 fc maximum distance

Beam Spread: 8.0°

For lux multiply fc by 10.7

Polar Candela Distribution



Candela Table

0	20727
5	6583
15	146
25	72
35	31
45	21
55	7
65	3
75	1
85	0
90	0

Coefficients of Utilization – Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%									
RC		80			70			50			30
RW		70	50	30	10	70	50	30	10	50	30
0	119119119119	116116116116	111111111111	106106106	102102102	100					
1	116114112111	113112110109	108107106	104103103	101100100	98					
2	113110107105	111108106104	105103102	102101100	100	98	98				
3	110106103101	108105102100	103100	99	100	99	97	98	97	96	95
4	108103100	98	106102100	97	101	98	96	99	97	95	97
5	106101	98	96	104100	97	95	99	96	94	97	95
6	104	99	96	94	103	99	96	93	97	95	93
7	102	97	94	92	101	97	94	92	96	93	92
8	101	96	93	91	100	96	93	91	95	92	90
9	100	95	92	90	99	94	92	90	94	91	89
10	98	94	91	89	98	93	91	89	93	90	88

# 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, Architectural	523-000059-10	910503701926
Accessories		
14° Spread lens	120-000080-04	910503701415
23° Spread lens	120-000080-05	910503701416
41° Spread lens	120-000080-06	910503701417
10° x 41° Spread lens	120-000080-07	910503701418
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
Architectural Mounting Arm, Short, Gray	120-000206-00	912400136642
Architectural Mounting Arm, Medium, Gray	120-000206-01	912400136643
Architectural Mounting Arm, Long, Gray	120-000206-02	912400136644
Wiring Compartment, 4 in diameter, Black, CE	106-000011-40	910503703275
Wiring Compartment, 4 in diameter, Black, UL	106-000011-30	910503704147

