eW Burst Compact Powercore

Date:
Type:
Firm Name:
Project:

4000 K, 41° Spread Lens, Gray Housing, UL/cUL/CE, Landscape

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/

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Specifications

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

Output

Color Temperature *	4000 K
Beam Angle	41°
Lumens †	646
Efficacy (lm/W)	42.8
CRI	81

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
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.

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, gray 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

Corrosion Resistance

Not suitable for salt spray or harsh chemical environments. Please refer to 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/

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/cviis2p8qq.

* 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.

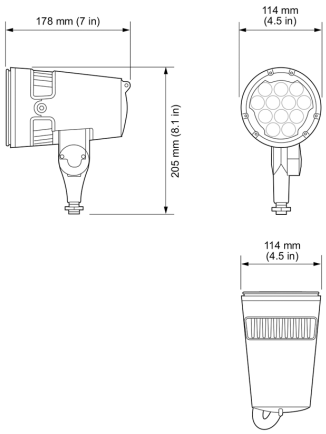
‡ Refer to www.colorkinetics.com/support/appnotes/ for more information.

§ 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.

¶ 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

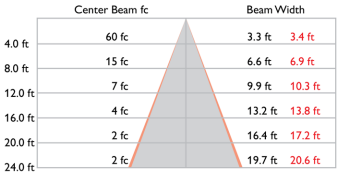


Photometrics 4000 K, 41° spread lens

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

Beam Angle	41°
LED	4000 K
Lumens	646.0
Efficacy (lm/W)	42.8

Illuminance at Distance



9.4 m (31 ft)
1 fc maximum distance

Vert. Spread: 44.7°
Horiz. Spread: 46.5°

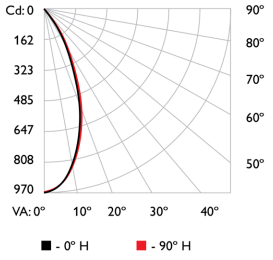
Zonal Lumen

Zonal Lumen Summary

ZONE	LUMENS	%FIXT
0- 30	473	73.3
0- 40	580	89.7
0- 60	636	98.4
0- 90	646	100.0
90-180	0	0.0
0-180	646	100.0

For lux multiply fc by 10.7

Polar Candela Distribution



Candela Table

	0.0	45.0	90.0	135.0	180.0
0	963	963	963	963	963
5	926	928	934	925	926
15	709	722	727	714	700
25	392	409	428	421	413
35	136	150	175	181	178
45	33	39	50	59	59
55	11	14	18	21	23
65	3	4	7	10	11
75	0	1	2	3	4
85	0	0	0	1	1
90	0	0	0	0	1

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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	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	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	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	68	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	64	58	55	63	58	54	62	57	54	61	57	54	53

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
eW Burst Compact Powercore, 4000 K, Gray 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.	523-000059-01	910503701662
Associated Part		
41° Spread lens Trim Ring or Glare Shield required for mounting. Must be ordered separately.	120-000080-06	910503701417
Accessories		
Trim Ring, Gray	120-000103-03	910503701420
45° Glare Shield, Gray	120-000103-04	910503701421
Full Height Glare Shield, Gray	120-000103-05	910503701422
Honeycomb Louver, Black	120-000104-01	910503701419
DM-1000 0-10 V ELV Dimmer	109-000036-00	912400135916
Wiring Compartment, 4 in diameter, Gray, CE (cover not included)	106-000011-42	910503703277
Wiring Compartment, 4 in diameter, Gray, UL (cover not included)	106-000011-32	910503704149
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

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