

# eW Blast Powercore gen4

Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

**3000 K, 100 – 277 VAC, 80° spread  
lens, Black housing, BIS**

## Exterior customizable luminaire with single temperature white light

eW Blast Powercore gen4 high-performance LED luminaires provide a high-intensity wash of white light with simplified installation. eW Blast Powercore gen4 offers a range of accessories that allow for customizable beam angles for floodlighting, spotlighting, wall washing, and grazing, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminium housing.



- Expands customization with a wide range of new accessory options. In addition to the native 6° lens, five different spread lenses can customize the luminaire to produce 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric) beam angles. Three housing color choices (black, gray, and white)—plus the option to add or combine a louver, rock guard, full glare shield, and half glare shield—create new aesthetic possibilities for designers and architects.
- Meets ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating.
- 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.
- Precision Dimming—Smooth dimming down to 1% with optional Data Enabler Pro and digital control interface.
- 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 Blast gen4 Product Guide at [www.colorkinetics.com/global/products/essentialwhite/ew-blast-powercore-gen4/](http://www.colorkinetics.com/global/products/essentialwhite/ew-blast-powercore-gen4/)

# Specifications

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

## Output

Color Temperature*	3000 K
Beam Angle	80°
Lumens†	2,701
Efficacy (lm/W)	56.6
CRI	81

## Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	50 W
Power Factor	0.9 @ 120 VAC, 0.85 @ 277 VAC
Surge Limits¶	2 kV maximum differential (L to N) 4 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

ON/OFF; precision dimming by 4 conductor cable & Data Enabler Pro	
Remote Monitoring & Management	Philips ActiveSite Ready, works with Interact Landmark

## Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶¶	Calculated¶¶
L <sub>90</sub>	25 °C	28,000	28,000
	50 °C	27,000	27,000
L <sub>70</sub>	25 °C	51,000	84,000
	50 °C	51,000	83,000
L <sub>50</sub>	25 °C	51,000	> 100,000
	50 °C	51,000	> 100,000

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

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

‡ L<sub>90</sub> = 90% lumen maintenance (when light output drops below 90% of initial output). L<sub>70</sub> = 70% lumen maintenance (when light output drops below 70% of initial output). L<sub>50</sub> = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to [www.colorkinetics.com/support/appnotes/](http://www.colorkinetics.com/support/appnotes/) for more information.

§ L<sub>xx</sub> = 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.

## Physical

Dimensions (Height x Width x Depth)	183.7 x 337.8 x 171.2 mm (7.2 x 13.2 x 6.74 in)
Weight	3.9 kg (8.2 lb)
Effective Projected Area (EPA)	0.068 m <sup>2</sup> (0.73 ft <sup>2</sup> ) (Luminaire plus Full Glare Shield)
Housing Material	Die-cast aluminium, black powder-coated finish
Lens	Clear tempered glass
Luminaire Connections	1.8 m (6 ft) unified power/data cable

## 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	IK10
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## Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing
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## 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	BIS
Environment	Dry/Damp/Wet Location, IP66



# Dimensions



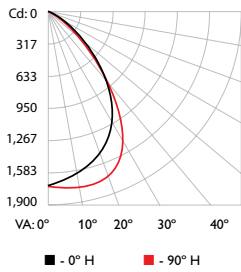
# Photometrics 3000 K, 80° spread lens

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	80°
LED	3000 K
Lumens	2,701
Efficacy (lm/W)	56.6



## Polar Candela Distribution



90°	0	25	45	70	90
80°	0	1714	1714	1714	1714
70°	5	1666	1678	1690	1720
60°	15	1546	1583	1627	1696
50°	25	1366	1409	1462	1547
	35	1048	1064	1078	1133
	45	602	584	562	545
	55	247	222	193	160
	65	81	72	59	45
	75	23	21	17	13
	85	0	0	0	0
	90	0	0	0	0

## Illuminance at Distance

Distance (ft)	Center Beam fc		Beam Width	
	Center Beam fc	Beam Width	Center Beam fc	Beam Width
4 ft	107 fc	6.4 ft	6.0 ft	
8 ft	27 fc	12.9 ft	11.9 ft	
12 ft	12 fc	19.3 ft	17.9 ft	
16 ft	7 fc	25.8 ft	23.9 ft	
20 ft	4 fc	32.2 ft	29.9 ft	
24 ft	3 fc	38.7 ft	35.8 ft	

41.5 ft (12.6 m)  
1 fc maximum distance  
Vert. Spread: 77.7°  
Horiz. Spread: 73.5°

## Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,337.7	48.3%
0-40	2,049.9	74.0%
0-60	2,686.5	97.0%
0-90	2,770.5	100.0%
60-90	83.9	3.0%
70-100	21.1	0.8%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	2,770.5	100.0%

For lux multiply fc by 10.7

## Coefficients of Utilization - Zonal Cavity Method

RCC %:	Effective Floor Cavity Reflectance: 20%																						
	80				70				50				30				10				0		
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0		
RCR:	0	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	0	0	0		
	1	1.12	1.09	1.06	1.03	1.10	1.07	1.04	0.91	1.03	1.01	0.99	0.99	0.97	0.96	0.96	0.94	0.93	0.91	0	0		
	2	1.05	0.99	0.94	0.90	1.03	0.97	0.93	0.83	0.94	0.90	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.82	0	0		
	3	0.98	0.91	0.84	0.80	0.96	0.89	0.84	0.75	0.86	0.82	0.78	0.84	0.80	0.76	0.81	0.78	0.75	0.73	0	0		
	4	0.92	0.83	0.76	0.71	0.90	0.82	0.75	0.68	0.79	0.74	0.70	0.77	0.73	0.69	0.75	0.71	0.68	0.66	0	0		
	5	0.86	0.76	0.69	0.64	0.84	0.75	0.68	0.61	0.73	0.67	0.63	0.71	0.66	0.62	0.70	0.65	0.62	0.60	0	0		
	6	0.81	0.70	0.63	0.58	0.79	0.69	0.62	0.56	0.67	0.61	0.57	0.66	0.60	0.56	0.64	0.60	0.56	0.54	0	0		
	7	0.76	0.64	0.57	0.52	0.74	0.64	0.57	0.51	0.62	0.56	0.52	0.61	0.56	0.51	0.60	0.55	0.51	0.49	0	0		
	8	0.71	0.60	0.53	0.48	0.70	0.59	0.52	0.47	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.51	0.47	0.45	0	0		
	9	0.67	0.55	0.48	0.44	0.66	0.55	0.48	0.43	0.54	0.48	0.44	0.53	0.47	0.43	0.52	0.47	0.43	0.42	0	0		
	10	0.63	0.52	0.45	0.40	0.62	0.51	0.45	0.40	0.50	0.44	0.40	0.49	0.44	0.40	0.49	0.44	0.40	0.38	0	0		

# Luminaire and Accessories

Use Item Number when ordering in North America

<b>Luminaire</b>	<b>Item Number</b>	<b>Item 12NC</b>
eW Blast Powercore gen4, 3000 K, 100 – 277 VAC, Black housing <i>Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.</i>	523-000100-40	912400137309
<b>Associated Parts</b>		
80° Spread lens	120-000185-11	912400130347
<i>Trim Ring required for mounting. Must be ordered separately.</i>		
<b>Accessories</b>		
Trim Ring, Black	120-000185-01	912400130337
Louver, Black	120-000185-05	912400130341
Rock Guard, Black	120-000185-07	912400130343
Half Glare Shield, Black	120-000185-14	912400130350
Full Glare Shield, Black	120-000185-03	912400130339
Wiring compartment UL/cUL, Black	106-000011-30	910503704147
Wiring Compartment CE, Black	106-000011-40	910503703275
<b>Power Supplies</b>		
Data Enabler Pro (required to digitally dim unit), 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
Data Enabler Pro (required to digitally dim unit), PG21/PG13 (metric size conduit)	106-000004-01	910503701211

