eW Blast Powercore gen4

4000 K, 100 – 277 VAC, 10° x 40° asymmetric 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/

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Specifications

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

Output

Color Temperature*	4000 K
Beam Angle	10° x 40°
Lumens†	2,894
Efficacy (lm/W)	59.7
CRI	84

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.

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_{90}	25 °C	28,000	28,000
	50 °C	27,000	27,000
L_{70}	25 °C	51,000	84,000
	50 °C	51,000	83,000
L_{50}	25 °C	51,000	> 100,000
	50 °C	51,000	> 100,000

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 m² (0.73 ft²) (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

Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

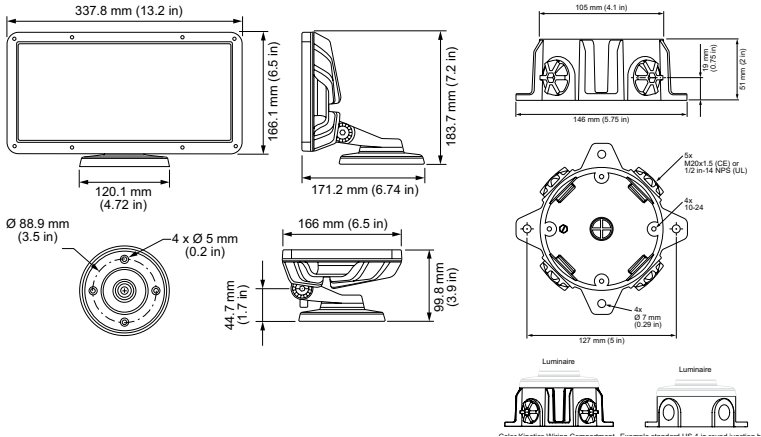|	
Humidity	0 to 95%, non-condensing

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	BIS
Environment	Dry/Damp/Wet Location, IP66

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* 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.

‡ L90 = 90% lumen maintenance (when light output drops below 90% of initial output). L70 = 70% lumen maintenance (when light output drops below 70% of initial output). L50 = 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/ 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.
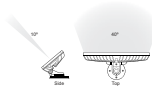
Dimensions

Photometrics 4000 K, 10º x 40º asymmetric 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	10° x 40°
LED	4000 K
Lumens	2,894
Efficacy (lm/W)	59.7

Polar Candela Distribution
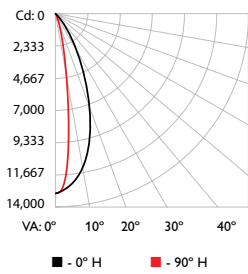
	0	25	45	70	90
0	12866	12866	12866	12866	12866
5	12454	12291	11572	10827	10617
15	9406	6569	3297	1633	1353
25	4976	1802	483	219	182
35	1638	348	107	38	26
45	333	76	17	0	0
55	50	7	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

■ - 0° H   ■ - 90° H

Illuminance at Distance

	Center Beam fc	Beam Width	
4 ft	804 fc	3.2 ft	1.1 ft
8 ft	201 fc	6.5 ft	2.1 ft
12 ft	89 fc	9.7 ft	3.2 ft
16 ft	50 fc	12.9 ft	4.3 ft
20 ft	32 fc	16.2 ft	5.3 ft
24 ft	22 fc	19.4 ft	6.4 ft

113.5 ft (34.6 m)
1 fc maximum distance

■ Vert. Spread: 44.0º
■ Horiz. Spread: 15.2º

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	2,691.4	91.1%
0-40	2,899.9	98.1%
0-60	2,955.2	100.0%
0-90	2,955.3	100.0%
60-90	0.1	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	2,955.3	100.0%

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR:																		
0	1.19	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
1	1.15	1.13	1.11	1.09	1.12	1.10	1.09	0.96	1.06	1.05	1.04	1.03	1.02	1.01	0.99	0.99	0.98	0.96
2	1.11	1.07	1.04	1.01	1.09	1.05	1.02	0.93	1.02	1.00	0.98	0.99	0.97	0.96	0.97	0.95	0.94	0.92
3	1.07	1.02	0.98	0.95	1.05	1.01	0.97	0.89	0.98	0.95	0.93	0.96	0.93	0.91	0.94	0.92	0.90	0.89
4	1.03	0.97	0.93	0.90	1.02	0.96	0.92	0.86	0.94	0.91	0.88	0.92	0.90	0.87	0.91	0.88	0.87	0.85
5	1.00	0.93	0.89	0.86	0.98	0.93	0.88	0.83	0.91	0.87	0.85	0.89	0.86	0.84	0.88	0.85	0.83	0.82
6	0.96	0.90	0.85	0.82	0.95	0.89	0.85	0.80	0.88	0.84	0.81	0.86	0.83	0.81	0.85	0.82	0.80	0.79
7	0.93	0.86	0.82	0.79	0.92	0.86	0.82	0.77	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.76
8	0.90	0.83	0.79	0.76	0.89	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.74
9	0.88	0.81	0.76	0.73	0.87	0.80	0.76	0.72	0.79	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.71
10	0.85	0.78	0.74	0.71	0.84	0.78	0.74	0.70	0.77	0.73	0.71	0.76	0.73	0.70	0.76	0.73	0.70	0.69

Luminaire and Accessories

Luminaire	Item Number	Item 12NC
eW Blast Powercore gen4, 4000 K, 100 – 277 VAC, Black housing	523-000100-43	912400137312
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.		

Associated Parts		
10° x 40° Asymmetric Spread lens	120-000185-12	912400130348
Trim Ring required for mounting. Must be ordered separately.		

Accessories		
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

Power Supplies		
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

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Color Kinetics
www.colorkinetics.com/global/products/essentialwhite/ew-blast-powercore-gen4/

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