

eW Blast Powercore gen4

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

**4000 K, 100 – 277 VAC, 6° Native
(no spread lens), White 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/

Specifications

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

Output

Color Temperature*	4000 K
Beam Angle	6°
Lumens†	3,189
Efficacy (lm/W)	65.8
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

* 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.

§ L_{xx} = 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 ² (0.73 ft ²) (Luminaire plus Full Glare Shield)
Housing Material	Die-cast aluminium, white 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/

Certification and Safety

Approbation	BIS
Environment	Dry/Damp/Wet Location, IP66



Dimensions



Photometrics 4000 K, 6° 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.

Beam Angle	6°
LED	4000 K
Lumens	3,189
Efficacy (lm/W)	65.8



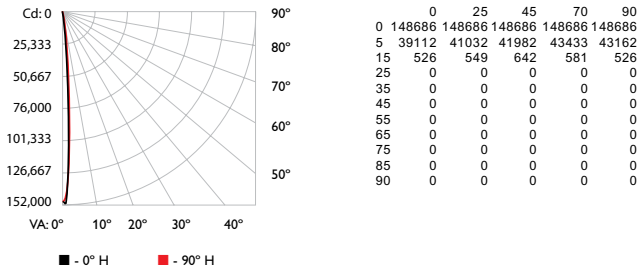
Illuminance at Distance

Center Beam fc	Beam Width
4 ft: 9,293 fc	0.5 ft 0.5 ft
8 ft: 2,323 fc	1.0 ft 0.9 ft
12 ft: 1,033 fc	1.4 ft 1.4 ft
16 ft: 581 fc	1.9 ft 1.8 ft
20 ft: 372 fc	2.4 ft 2.3 ft
24 ft: 258 fc	2.9 ft 2.7 ft

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	3,283.3	100.0%
0-40	3,283.3	100.0%
0-60	3,283.3	100.0%
0-90	3,283.3	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	3,283.3	100.0%

Polar Candela Distribution



Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %: 80 70 50 30 10 0

RW %: 70 50 30 0 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	
1	1.17	1.15	1.14	1.12	1.14	1.13	1.12	1.00	1.09	1.08	1.07	1.05	1.05	1.04	1.02	1.02	1.01	1.00
2	1.14	1.12	1.10	1.08	1.13	1.10	1.09	1.00	1.07	1.06	1.05	1.05	1.04	1.03	1.02	1.01	1.01	0.99
3	1.13	1.10	1.07	1.05	1.11	1.08	1.06	0.99	1.06	1.04	1.03	1.04	1.03	1.02	1.02	1.01	1.00	0.99
4	1.11	1.08	1.05	1.04	1.10	1.07	1.05	0.99	1.05	1.03	1.02	1.03	1.02	1.01	1.02	1.01	1.00	0.99
5	1.10	1.06	1.04	1.02	1.09	1.06	1.03	0.99	1.04	1.02	1.01	1.03	1.01	1.00	1.02	1.00	0.99	0.99
6	1.09	1.05	1.03	1.01	1.08	1.05	1.02	0.99	1.03	1.02	1.00	1.02	1.01	1.00	1.01	1.00	0.99	0.98
7	1.08	1.04	1.02	1.00	1.07	1.04	1.02	0.98	1.03	1.01	1.00	1.02	1.00	0.99	1.01	1.00	0.99	0.98
8	1.07	1.03	1.01	1.00	1.06	1.03	1.01	0.98	1.02	1.00	0.99	1.01	1.00	0.99	1.01	0.99	0.98	0.98
9	1.06	1.03	1.00	0.99	1.06	1.02	1.00	0.98	1.02	1.00	0.99	1.01	1.00	0.98	1.01	0.99	0.98	0.98
10	1.05	1.02	1.00	0.99	1.05	1.02	1.00	0.98	1.01	0.99	0.98	1.01	0.99	0.98	1.00	0.99	0.98	0.97

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
eW Blast Powercore gen4, 4000 K, 100 – 277 VAC, White housing	523-000100-42	912400137311
Accessories		
Trim Ring, White	120-000185-00	912400130336
Louver, White	120-000185-04	912400130340
Rock Guard, White	120-000185-06	912400130342
Half Glare Shield, White	120-000185-13	912400130349
Full Glare Shield, White	120-000185-02	912400130338
Wiring Compartment UL/cUL, White	106-000011-31	910503704148
Wiring Compartment CE, White	106-000011-41	910503703276
20° Spread lens	120-000185-08	912400130344
40° Spread lens	120-000185-09	912400130345
60° Spread lens	120-000185-10	912400130346
80° Spread lens	120-000185-11	912400130347
10° x 40° Asymmetric Spread lens	120-000185-12	912400130348
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/