

Blast Powercore gen5, IntelliHue

Date: _____

Type: _____

Firm Name: _____

Project: _____

OptiField, Black Housing

High-performance exterior OptiField luminaire with intelligent white and color light

Blast Powercore gen5, IntelliHue OptiField produces high-quality white, pastel, and saturated color light, in the same precisely controllable luminaire. IntelliHue technology delivers exceptional CRI and the ability to choose any CCT between 2000 K and 10000 K. OptiField technology delivers extremely uniform illuminance, providing smooth, even light and subtle shading with reduced setbacks—without hotspots or banding. Blast Powercore gen5 offers a range of accessories that allow for customization, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminium housing.



- Blast Powercore gen5 integrates the latest LED innovations, custom optics, and a 100 to 277 VAC direct connection. The Blast Powercore gen5 family still retains the rock-solid reliability and no-compromises quality that earned Blast its unequalled reputation.
- OptiField technology, features extremely uniform illumination, providing smooth walls of light that appear perfect to the eye. And thanks to our breakthrough optics, you can place luminaires exceptionally close to illuminated surfaces.
- Delivers R9 values up to 90. Saturated red light gives objects and surfaces a vibrant and rich color that is ideal for spaces where ambience is important.
- Chromasync technology improves color consistency between all LED luminaires in a family. During the manufacturing process a calibrated light measurement device creates an algorithm to define a common color gamut for an entire family of LED luminaires. When Chromasync is enabled, color consistency between luminaires is achieved without having to manually adjust color points on each luminaire.
- Choose from a full line of high-quality accessories, from full and half glare shields, to a rock guard, for all Blast Powercore gen5 luminaires, eliminating the need for third-party solutions. All in your choice of white, gray, or black.
- Blast is known for providing years of reliable use under rugged conditions. Blast gen5 raises reliability even further with more protection from corrosion by meeting ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating, and elimination of water pooling.
- 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.
- Works seamlessly with the complete Color Kinetics line of controllers, including iPlayer 3, iPlayer 4, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers.

For detailed product information, please refer to the Blast Product Guide at www.colorkinetics.com/global/products/intellihue/blast-powercore-gen5-intellihue-optifield

Specifications

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

Output

Beam	Wall Washing
Lumens All Channels Full On †	2,170
Lumens @ 2700 K *	1,157
Lumens @ 4000 K *	1,263
Lumens per channel *	R 345 / G 800 / B 221 / MW 954
Efficacy (lm/W) All Channels Full On	45.3
Efficacy (lm/W) @ 2700 K	53.7
Efficacy (lm/W) @ 4000 K	51.2
CRI @ 2700 K	93.5
CRI @ 4000 K	92.1
LED Channels	Red/Green/Blue/Mint White

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	21.6 to 47.9 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

Interface	Data Enabler Pro (DMX or Ethernet)
Control Channels	4 channels per luminaire

For additional Control Channel information, please refer to <https://colorkinetics.helpdocs.io/article/fv5rkvclq>.

Control System

Color Kinetics full range of controllers, including iPlayer 3, iPlayer 4, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers.

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L ₉₀	50 °C	39,715 39,715	39,715 39,715
L ₈₀	50 °C	>60,000 >60,000	>98,607 >98,607
L ₇₀	50 °C	>60,000 >60,000	>100,000 >100,000
L ₅₀	50 °C		>100,000 >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.

§ 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.

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

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

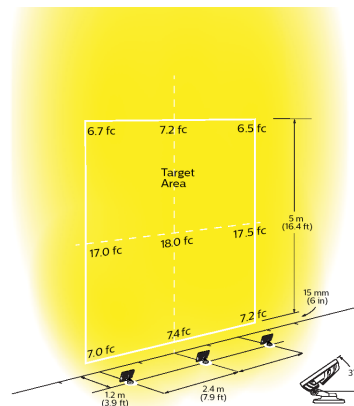
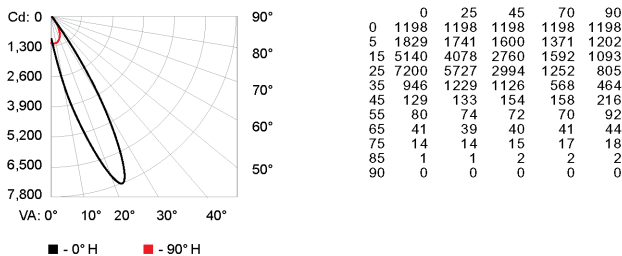
Approbation	UL/cUL, FCC Class A, CE, PSE, CQC, RCM, EAC, UA
Environment	Dry/Damp/Wet Location, IP66

For additional Energy Efficiency Class Information, please refer to <https://colorkinetics.helpdocs.io/article/cviis2p8qq>.



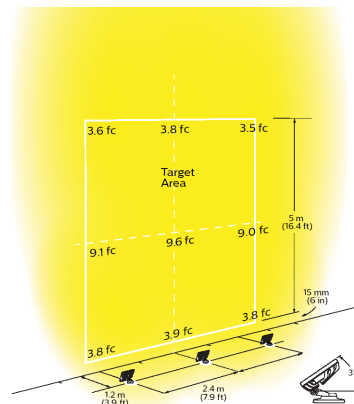
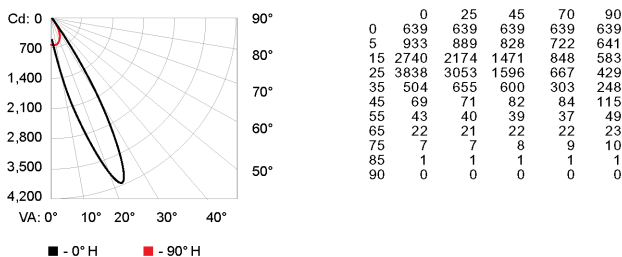
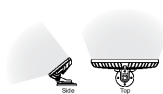
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Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.colorkinetics.com/global/support/ies.



Zone	Lumens	% Luminaire
0-30	1535.7	69.0%
0-40	1946.5	87.5%
0-60	2157.9	97.0%
60-90	67.2	3.0%
70-100	21.9	1.0%
90-120	0.0	0.0%
0-90	2225.1	100.0%
90-180	0.0	0.0%
0-180	2225.1	100.0%

Beam	Wall Washing
LEDs at	2700 K
Lumens @ 2700 K	1,157
Target area uniformity	4.8:1
Efficacy (lm/W) @ 2700 K	53.7



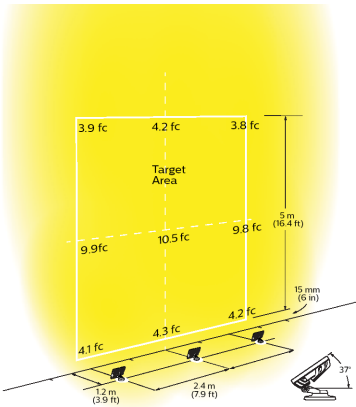
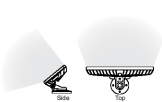
Zone	Lumens	% Luminaire
0-30	818.6	69.0%
0-40	1037.6	87.5%
0-60	1150.3	97.0%
60-90	35.8	3.0%
70-100	11.7	1.0%
90-120	0.0	0.0%
0-90	1186.1	100.0%
90-180	0.0	0.0%
0-180	1186.1	100.0%

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Photometrics OptiField, 4000 K

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	Wall Washing
LEDs at	4000 K
Lumens @ 4000 K	1,263
Target area uniformity	4.8:1
Efficacy (lm/W) @ 4000 K	51.2

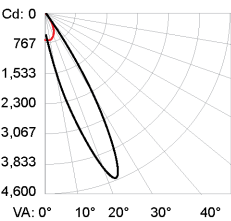


Zonal Lumen

Zone	Lumens	% Luminaire
0-30	893.9	69.0%
0-40	1133.0	87.5%
0-60	1256.0	97.0%
60-90	39.1	3.0%
70-100	12.7	1.0%
90-120	0.0	0.0%
0-90	1295.1	100.0%
90-180	0.0	0.0%
0-180	1295.1	100.0%

For lux multiply fc by 10.7

Polar Candela Distribution



0	0	25	45	70	90
0	697	697	697	697	697
5	1018	971	904	788	700
15	2992	2373	1607	926	636
25	4191	3334	1743	729	489
35	551	716	656	331	270
45	75	78	90	92	125
55	46	43	42	41	54
65	24	23	24	24	26
75	8	8	9	10	10
85	1	1	1	1	1
90	0	0	0	0	0

■ - 0° H ■ - 90° H

Blast Powercore gen5, OptiField Notes
Although this luminaire is designed to meet a large number of installation needs, specifically wall heights, we recommend using a measurement area like the example with a measurement grid of 5 m (16.4 ft) or smaller. This approach will help you consistently create simulations that match mock-ups. In order to achieve the highest delivered illuminance and maximum level of uniformity, we recommend aiming the luminaire at a 37° rotation.

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
Blast Powercore gen5, IntelliHue, OptiField, Black Housing	423-000037-01	912400137987
Accessories		
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
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
Power Supplies		
Data Enabler Pro, 3/4 in / 1/2 in NPT (US trade size conduit)	106-000004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211



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Color Kinetics
www.colorkinetics.com/global/products/intellihue/blast-powercore-gen5-intellihue-optifield