

Blast Powercore gen5, IntelliHue

Date: _____

Type: _____

Firm Name: _____

Project: _____

100 – 277 VAC, 10° Native (no spread lens), Gray Housing, UL/CE/CQC

Exterior versatile and customizable luminaire with intelligent white and color light

Blast Powercore gen5, IntelliHue 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. Blast IntelliHue 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 10° 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.
- Improves color consistency between all LED luminaires in a family with Chromasync technology. 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.
- Meets ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating.
- Delivers R9 values that can reach up to 81. Saturated red light gives objects and surfaces a vibrant and rich color that is ideal for spaces where ambience is important.
- Features an redesigned optical system that improves the quality of light from each LED, enhancing the color uniformity and color mixing capabilities of each Blast Powercore gen5, IntelliHue luminaire.
- 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 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.
- Accepts power input of 100 to 277 VAC.
- 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

Specifications

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

Output

Beam Angle	10°
Lumens All Channels Full On †	2,690
Lumens @ 2700 K *	1,605
Lumens @ 4000 K *	1,851
Lumens per channel *	R 526 / G 944 / B 233 / MW 1,172
Efficacy (lm/W) All Channels Full On	57.3
Efficacy (lm/W) @ 2700 K	77.9
Efficacy (lm/W) @ 4000 K	71.2
CRI @ 2700 K	93.3
CRI @ 4000 K	87.3
LED Channels	Red/Green/Blue/Mint White

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption	50 W
(Maximum at full output, steady state)	
Power Factor	0.99 @ 120 VAC
	0.88 @ 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

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	25 °C	>39,715	>39,715
	50 °C	>39,715	>39,715
L 80	25 °C	>60,000	>98,607
	50 °C	>60,000	>98,607
L 70	25 °C	>60,000	>100,000
	50 °C	>60,000	>100,000
L 50	25 °C	-	>100,000
	50 °C	-	>100,000

Physical

Dimensions	183.7 x 337.8 x 171.2 mm (7.2 x 13.2 x 6.74 in)
(Height x Width x Depth)	
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, gray 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
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.

† Full-on lumen output measurements comply with IES LM-79-08 testing procedures. 2700 K and 4000 K measurements are estimated based on the full-on measurements.

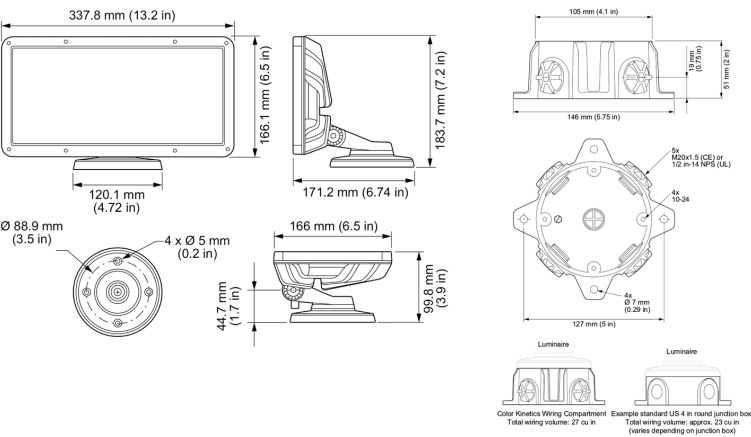
§ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶ Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

†† When mounting to a junction box, the Color Kinetics wiring compartment accessory must be used to maintain a 3G vibration rating.

¶¶ 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

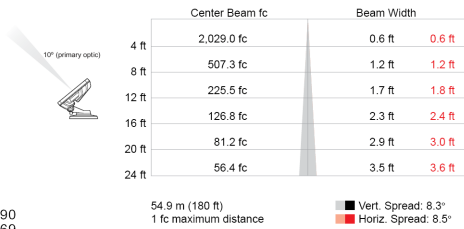


Photometrics Photometrics 2700 K

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 Angle	10°
LEDs at	2700 K
Lumens @ 2700 K	1,605.0
Efficacy (lm/W) All Channels Full On	77.9

Illuminance at Distance



Zonal Lumen

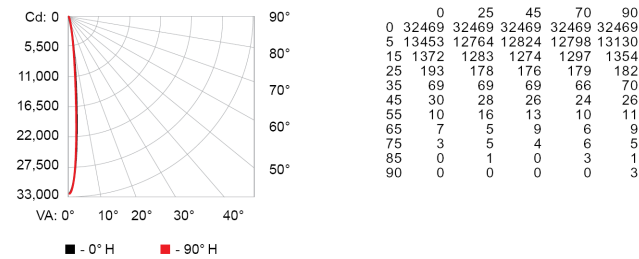
Zone	Lumens	%	Luminaire
0-30	1,514.3	94.3%	
0-40	1,557.7	97.0%	
0-60	1,591.9	99.2%	
60-90	13.5	0.8%	
70-100	5.9	0.4%	
90-120	0.0	0.0%	
0-90	1,605.4	100.0%	
90-180	0.0	0.0%	
0-180	1,605.4	100.0%	

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	0
RCR:																								
1	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						
2	1.16	1.14	1.12	1.10	1.13	1.12	1.10	0.98	1.08	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98						
3	1.12	1.09	1.07	1.04	1.10	1.08	1.05	0.96	1.04	1.03	1.01	1.02	1.00	0.99	0.98	0.97	0.95	0.95						
4	1.09	1.05	1.02	1.00	1.08	1.04	1.01	0.94	1.02	0.99	0.98	1.00	0.98	0.96	0.97	0.96	0.95	0.93						
5	1.07	1.02	0.99	0.96	1.05	1.01	0.98	0.92	0.99	0.97	0.95	0.98	0.95	0.94	0.96	0.94	0.93	0.92						
6	1.05	1.00	0.96	0.94	1.03	0.99	0.96	0.91	0.97	0.95	0.92	0.96	0.94	0.92	0.95	0.93	0.91	0.90						
7	1.02	0.97	0.94	0.91	1.01	0.97	0.93	0.88	0.95	0.93	0.91	0.94	0.92	0.90	0.93	0.91	0.89	0.89						
8	1.01	0.95	0.92	0.89	1.00	0.95	0.91	0.88	0.94	0.91	0.89	0.93	0.90	0.88	0.92	0.90	0.88	0.87						
9	0.99	0.93	0.90	0.88	0.98	0.93	0.90	0.87	0.92	0.89	0.87	0.91	0.89	0.87	0.91	0.88	0.87	0.86						
10	0.97	0.92	0.88	0.86	0.96	0.91	0.88	0.85	0.91	0.88	0.86	0.90	0.87	0.86	0.89	0.87	0.85	0.85						
11	0.95	0.90	0.87	0.85	0.95	0.90	0.87	0.84	0.89	0.87	0.85	0.89	0.86	0.84	0.88	0.86	0.84	0.84						

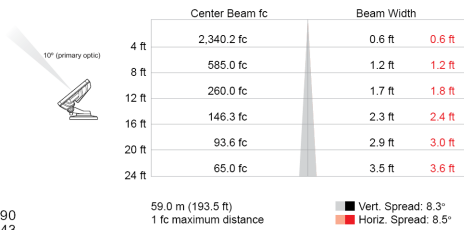
Polar Candela Distribution



4000 K

Beam Angle	10°
LEDs at	4000 K
Lumens @ 4000 K	1,851
Efficacy (lm/W) @ 2700 K	71.2

Illuminance at Distance



Zonal Lumen

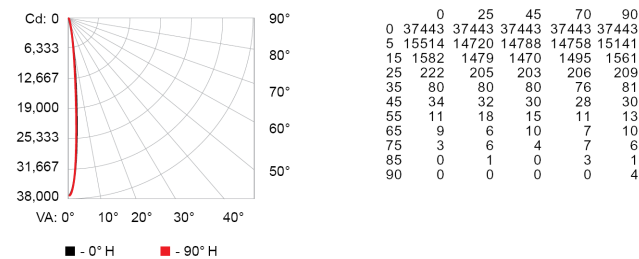
Zone	Lumens	%	Luminaire
0-30	1746.3	94.3%	
0-40	1796.4	97.0%	
0-60	1835.8	99.2%	
60-90	15.6	0.8%	
70-100	6.8	0.4%	
90-120	0.0	0.0%	
0-90	1851.3	100.0%	
90-180	0.0	0.0%	
0-180	1851.3	100.0%	

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																
RCC %:	80	70				50				30				20				
RW %:	70	50	30	0	70	50	30	0	70	50	30	0	70	50	30	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	1.00	
1	1.16	1.14	1.12	1.10	1.13	1.12	1.10	0.98	1.08	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98
2	1.12	1.09	1.07	1.04	1.10	1.08	1.05	0.96	1.04	1.03	1.01	1.02	1.00	0.99	0.99	0.98	0.97	0.95
3	1.09	1.05	1.02	1.00	1.08	1.04	1.01	0.94	1.02	0.99	0.98	1.00	0.98	0.96	0.97	0.96	0.95	0.93
4	1.07	1.02	0.99	0.96	1.05	1.01	0.98	0.92	0.99	0.97	0.95	0.98	0.95	0.94	0.96	0.94	0.93	0.92
5	1.05	1.00	0.96	0.94	1.03	0.99	0.96	0.91	0.97	0.95	0.92	0.96	0.94	0.92	0.95	0.93	0.91	0.90
6	1.02	0.97	0.94	0.91	1.01	0.97	0.93	0.88	0.95	0.93	0.91	0.94	0.92	0.90	0.93	0.91	0.89	0.89
7	1.01	0.95	0.92	0.89	1.00	0.95	0.91	0.88	0.94	0.91	0.89	0.93	0.90	0.88	0.92	0.90	0.88	0.87
8	0.99	0.93	0.90	0.88	0.98	0.93	0.90	0.87	0.92	0.89	0.87	0.91	0.89	0.87	0.91	0.88	0.87	0.86
9	0.97	0.92	0.88	0.86	0.96	0.91	0.88	0.85	0.91	0.88	0.86	0.90	0.87	0.86	0.89	0.87	0.85	0.85
10	0.95	0.90	0.87	0.85	0.95	0.90	0.87	0.84	0.89	0.87	0.85	0.89	0.86	0.84	0.88	0.86	0.84	0.84

Polar Candela Distribution



Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
Blast Powercore gen5, IntelliHue, 100 – 277 VAC, Gray Housing, UL/CE/CQC	423-000026-04	912400137693
Accessories		
Trim Ring, Gray	120-000185-15	912400133530
Louver, Gray	120-000185-17	912400133532
Rock Guard, Gray	120-000185-18	912400133533
Half Glare Shield, Gray	120-000185-19	912400133534
Full Glare Shield, Gray	120-000185-16	912400133531
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°x40° Spread lens	120-000185-12	912400130348
Wiring Compartment UL/cUL, Gray	106-000011-32	910503704149
Wiring Compartment CE, Gray	106-000011-42	910503703277
Architectural Mounting Arm, for use with Blast, Graze, Graze Compact, Burst Architectural, and Vaya Flood. Short, gray	120-000206-00	912400136642
Architectural Mounting Arm, for use with Blast, Graze, Graze Compact, Burst Architectural, and Vaya Flood. Medium, gray	120-000206-01	912400136643
Architectural Mounting Arm, for use with Blast, Graze, Graze Compact, Burst Architectural, and Vaya Flood. Long, gray	120-000206-02	912400136644
Power Supplies		
Data Enabler Pro, 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211

