Burst Powercore gen3, IntelliHue

Date:	
ype:	
ïrm Name:	
Project:	

8° Native (no spread lens), Black Housing, Architectural

Exterior architectural and landscape spotlight with intelligent white and color light

Burst Powercore gen3, IntelliHue produces high-quality white, pastel, and saturated color light, in the same precisely controllable luminaire for outdoor wall washing and spot lighting applications. IntelliHue technology delivers exceptional CRI and the ability to choose any CCT between 2000 K and 10000 K.



- Expands customization with a wide range of new accessory options. In addition to the native 6° lens, six different spread lenses can customize the luminaire to produce 10°, 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric) beam angles. Three housing color choices (black, gray, and white)—plus the option to add a louver, full glare shield, and half glare shield—create new aesthetic possibilities for designers and architects.
- Color-changing and high-quality white light from the same luminaire— IntelliHue is an advanced approach to color mixing that enables high-quality intelligent color and white light from a single luminaire. Multiple channels of LED light sources combine to produce a full spectrum of precisely controllable light, including millions of saturated colors, pastels, and uniform white light with CRI of greater than 79.5 in the 2700 K to 4000 K range.
- 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.

- \cdot Complies with ASTM B117 corrosion resistance standard for > 1,500 hours and ANSI C136.31-2010 standard with a 3G vibration rating.
- Features an innovative, redesigned optical system that improves the quality of light from each LED, enhancing the color uniformity and color mixing capabilities of each Burst Powercore 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 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.
- 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 Burst Product Guide at www.colorkinetics.com/global/products/intellihue/burst-powercore-gen3-intellihue/



Specifications

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

Output

- anpan	
Beam Angle	8°
Lumens All Channels Full On †	1,860
Lumens @ 2700 K	1,259
Lumens @ 4000 K	1,371
Lumens per channel	R 363 / G 613 / B 142 / MW 768
Efficacy (lm/W) All Channels Full On	59.1
Efficacy (lm/W) @ 2700 K	67.4
Efficacy (lm/W) @ 4000 K	66.1
CRI @ 2700 K	79.5
CRI @ 4000 K	82.1
LED Channels	Red/Green/Blue/Mint White

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption	31.3
(Maximum at full output, steady state)	
Power Factor	> 0.9 @ 100 to 240 VAC
	> 0.85 @ 277 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, ple	ease refer to https://
colorkinetics.helpdocs.io/article/fv5rkpvclg.	

Control System

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.

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

	Ambient		
Threshold§	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

Lutilitaire Coriffections	1.8 m (6 tt) combined power data writp
Luminaire Connections	1.8 m (6 ft) combined power data whip
Lens	Clear tempered glass
Housing Material	Die-cast aluminium, black powder-coated finish
	(Luminaire plus Full Glare Shield)
Effective Projected Area (EPA)	0.026 m² (0.28 ft²)
Weight	5.5 kg (12.1 lb)
(Height x Width x Depth)	
Dimensions	287 x 210 x 186 mm (11.3 x 8.3 x 7.3 in)

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

IK08

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, RCM
Environment	Dry/Damp/Wet Location, IP66
For additional Energy Efficiency Class Information	n, please refer to https://
colorkinetics.helpdocs.io/article/cviis2p8qq.	





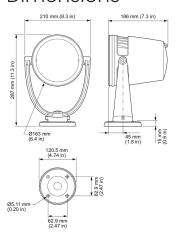
[†] Lumen measurement complies with IES LM-79-08 testing procedures.

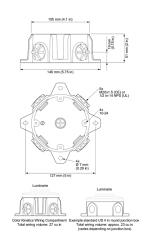
[§] L50 = 50% lumen maintenance (when light output drops below 50% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

[¶] 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 8° 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	8°
LEDs	All channels full on
Lumens All Channels Full On	1,860.0
Efficacy (lm/W) All Channels Full On	59.1



Illuminance at Distance

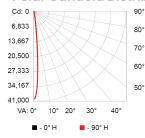
	Center Beam fc	Beam Width	
4 ft	2,523.4 fc	0.6 ft	0.6 ft
8 ft	630.9 fc	1.2 ft	1.2 ft
12 ft	280.4 fc	1.9 ft	1.8 ft
16 ft	157.7 fc	2.5 ft	2.4 ft
20 ft	100.9 fc	3.1 ft	3.1 ft
24 ft	70.1 fc	3.7 ft	3.7 ft
	2.8 m (206 ft) fc maximum distance	■ Vert. Spread: ■ Horiz. Spread	

Zonal Lumen

Zone	Lumens	%	Luminaire
0-30	1772.8		95.8%
0 - 40	1813.5		98.0%
0-60	1841.6		99.5%
60-90	4.2		0.2%
70-100	1.6		0.1%
90-120	0.5		0.0%
0-90	1845.8		99.7%
90-180	4.9		0.3%
0-180	1850.7		100.0%

For lux multiply fc by 10.7

Polar Candela Distribution



	0	25	45	70	90
0	40375	40375	40375	40375	40375
5	16202	16429	16638	17034	17422
15	1386	1378	1354	1333	1315
25		183	181	180	180
35	65	66	64	63	63
45		25	25	25	26
55		8	8	8	9
65		3	3	3	3
75		1	1	1	1
85	0	0	0	0	C
90	0	0	0	0	C

Coefficents of Utilization - Zonal Cavity Method

									Etti	ect	ve	Floor	Ca	vity	Refle	cta	nce:	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	1.16	1.14	1.12	1.11	1.13	1.12	1.10	0.98	1.08	1.07	1.06	1.04	1.03	1.03	1.01	1.00	1.00	0.98
2	1.13	1.10	1.07	1.05	1.11	1.08	1.06	0.97	1.05	1.03	1.02	1.02	1.01	1.00	1.00	0.99	0.98	0.96
		1.06							1.03								0.96	
		1.04							1.01						0.97	0.96	0.94	0.93
5	1.06	1.01	0.98	0.95	1.04	1.00	0.97	0.92	0.99	0.96	0.94	0.97	0.95	0.93	0.96	0.94	0.93	0.92
6		0.99							0.97								0.91	
7		0.97							0.95								0.90	
		0.95							0.94						0.93			0.88
		0.94							0.93									0.87
10	0.97	0.93	0.90	0.88	0.97	0.92	0.89	0.87	0.92	0.89	0.87	0.91	0.89	0.87	0.90	0.88	0.87	0.86

Photometrics 2700 K

Beam Angle	8°
LEDs at	2700 K
Lumens @ 2700 K	1,259
Efficacy (lm/W) @ 2700 K	67.4



Illuminance at Distance

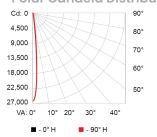
	Center Beam fc	Beam Width	
4 ft	1,674.3 fc	0.6 ft	0.6 ft
8 ft	418.6 fc	1.2 ft	1.2 ft
12 ft	186.0 fc	1.8 ft	1.8 ft
16 ft	104.6 fc	2.5 ft	2.4 ft
20 ft	67.0 fc	3.1 ft	3.1 ft
20 ft	46.5 fc	3.7 ft	3.7 ft
24 II			
	3 m (160 ft) maximum distance	■ Vert. Spread ■ Horiz. Spread	

Zone	Lumens	~	Luminane
0-30	1205.1		95.7%
0 - 40	1232.8		97.9%
0-60	1251.5		99.4%
60-90	3.3		0.3%
70-100	1.5		0.1%
90-120	0.8		0.1%
0-90	1254.8		99.7%
90-180	4.2		0.3%
0-180	1259.0		100.0%

Zonal Lumen

For lux multiply fc by 10.7

Polar Candela Distribution



0 26788 5 10580 15 990 25 126 35 45 45 17 55 5 65 2 75 1	26788 10904 1005 127 45 17	45 26788 11260 1005 126 44 17 5 2	70 26788 11787 1008 127 43 17 6 2 1	90 26788 12152 1013 128 43 18 6 2
85 0 90 0	0	0	0	0

Coefficents of Utilization - Zonal Cavity Method

									Eff	ecti	ive	Floor	Car	vity	Refle	cta	nce:	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	1.16	1.14	1.12	1.11	1.13	1.12	1.10	0.98	1.08	1.07	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98
	1.13	1.10	1.07	1.05	1.11	1.08	1.06	0.96	1.05	1.03	1.02	1.02	1.01	0.99	0.99	0.98	0.97	0.96
3	1.10	1.06	1.03	1.01	1.08	1.05	1.02	0.95	1.03	1.00	0.99	1.00	0.99	0.97	0.98	0.97	0.96	0.94
4	1.08	1.03	1.00	0.98	1.06	1.02	0.99	0.93	1.00	0.98	0.96	0.99	0.97	0.95	0.97	0.95	0.94	0.93
		1.01			1.04	1.00	0.97	0.92	0.98	0.96	0.94	0.97	0.95	0.93	0.96	0.94	0.92	
6	1.04	0.99	0.95	0.93	1.02	0.98	0.95	0.91	0.97	0.94	0.92	0.96	0.93	0.92	0.94	0.93	0.91	0.90
7	1.02	0.97	0.94	0.91	1.01	0.96	0.93	0.90	0.95	0.93	0.91	0.94	0.92	0.90	0.93	0.91	0.90	0.89
8	1.00	0.95	0.92	0.90	0.99	0.95	0.92	0.88	0.94	0.91	0.89	0.93	0.91	0.89	0.92	0.90	0.89	0.88
9	0.99	0.94	0.90	88.0	0.98	0.93	0.90	0.87	0.92	0.90	0.88	0.92	0.89	88.0	0.91	0.89	0.88	0.87
10	0.07	0.02	0.80	0.87	0.06	0.02	0.80	0.86	0.01	0.80	0.87	0.01	0.88	0.87	0.00	0.88	0.86	0.86

Photometrics 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.

Danier Annels	00
Beam Angle	8-
LEDs at	4000 K
Lumens @ 4000 K	1,371
Efficacy (lm/W) @ 4000 K	66.1







Illuminance at Distance

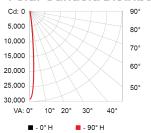
	Center Beam fc	Beam Width	
4 ft	1,814.6 fc	0.6 ft 0	.6 ft
8 ft	453.7 fc	1.2 ft 1	.2 ft
2 ft	201.6 fc	1.8 ft 1	.8 ft
6 ft	113.4 fc	2.5 ft 2	.4 ft
0 ft	72.6 fc	3.1 ft 3	.1 ft
4 ft	50.4 fc	3.7 ft 3	.7 ft
	2 m (168 ft) : maximum distance	Vert. Spread: 8. Horiz. Spread: 8	

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1306.1	95.7%
0-40	1336.1	97.9%
0-60	1356.4	99.4%
60-90	3.5	0.3%
70-100	1.7	0.19
90-120	0.9	0.1%
0-90	1360.0	99.7%
90-180	4.6	0.3%
0-180	1364.6	100.0%

For lux multiply fc by 10.7

Polar Candela Distribution



	0	25	45	70	90
0	29034	29034	29034	29034	29034
5	11467	11818	12204	12775	13171
15	1073	1089	1089	1092	1098
25	136	138	137	138	139
35	48	49	48	47	47
45	18	18	18	19	19
55	5	6	6	6	7
65	2	2	2	2	2
75	1	1	1	1	1
85	0	0	0	0	0
90	0	0	0	0	0

Coefficents of Utilization - Zonal Cavity Method

										Eff	ecti	ve	Floor	Ca	vity	Refle	cta	nce:	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
RC	R:																		
0			1.19							1.11					1.06			1.02	1.00
- 1		1.16	1.14	1.12	1.11	1.13	1.12	1.10	0.98	1.08	1.07	1.0€	1.04	1.03	1.02	1.01	1.00	0.99	0.98
2		1.13	1.10	1.07	1.05	1.11	1.08	1.06	0.96	1.05	1.03	1.02	1.02	1.01	0.99	0.99	0.98	0.97	0.96
3			1.06						0.95	1.03					0.97			0.96	0.94
4			1.03						0.93	1.00								0.94	0.93
5		1.06	1.01	0.98	0.95	1.04	1.00	0.97	0.92	0.98	0.96	0.94	0.97	0.95	0.93			0.92	
6			0.99							0.97						0.94			0.90
7			0.97						0.90									0.90	0.89
8			0.95						0.88	0.94						0.92			0.88
9			0.94						0.87	0.92								0.88	0.87
10		0.97	0.92	0.89	0.87	0.96	0.92	0.89	0.86	0.91	0.89	0.87	0.91	0.88	0.87	0.90	0.88	0.86	0.86

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
Burst Powercore gen3, IntelliHue, Black Housing, Architectural	423-000029-24	912400137731
Accessories		
Trim Ring gen2, Black	120-000189-21	912400135450
Half Glare Shield gen2, Black	120-000189-25	912400135454
Full Glare Shield gen2, Black	120-000189-29	912400135458
Louver	120-000189-17	912400133447
Spread Lens, 10°	120-000189-18	912400135371
Spread Lens, 20°	120-000189-12	912400133442
Spread Lens, 40°	120-000189-13	912400133443
Spread Lens, 60°	120-000189-14	912400133444
Spread Lens, 80°	120-000189-15	912400133445
Spread Lens, 10°x40°	120-000189-16	912400133446
Mounting Arm, Short, Gray	120-000206-00	912400136642
Mounting Arm, Medium, Gray	120-000206-01	912400136643
Mounting Arm, Long, Gray	120-000206-02	912400136644
Wiring Compartment, 4 in diameter, Black, CE (cover not included)	106-000011-40	910503703275
Wiring Compartment, 4 in diameter, Black, UL (cover not included)	106-000011-30	910503704147
Power Supplies		
Data Enabler Pro, 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-00004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211

