ColorBlast IntelliHue Powercore gen4

100 – 277 VAC, 20° Spread Lens, White Housing, UL/CE/CQC

Exterior versatile and customizable luminaire with intelligent white and color light

ColorBlast IntelliHue Powercore 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. ColorBlast IntelliHue Powercore 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 innovative, redesigned optical system that improves the quality of light from each LED, enhancing the color uniformity and color mixing capabilities of each ColorBlast IntelliHue Powercore gen4 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.

- Accepts power input of 100 to 277 VAC.

- 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 Family Product Guide at www.colorkinetics.com/global/products/intellihue/colorblast-powercore-gen4/

COLOR KINETICS

Specifications

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

Output

Beam Angle	20°
Lumens All Channels Full On[†]	2,121
Efficacy (lm/W) All Channels Full On	40.2
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)	50 W
Power Factor	0.99 @ 120 VAC 0.88 @ 277 VAC

For Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Control

Interface	Data Enabler Pro (DMX/Ethernet)

Control System

Color Kinetics full range of controllers, including Light System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers

Remote Monitoring & Management	Philips ActiveSite Ready, works with Interact Landmark

Lumen Maintenance

Threshold[§]	Ambient Temperature	Reported[¶]	Calculated[¶]
L_{90}	25 °C	51,400	51,400
	50 °C	51,400	51,400
L_{80}	25 °C		> 100,000
	50 °C	> 72,000	> 100,000
L_{70}	25 °C	> 72,000	> 100,000
	50 °C	> 72,000	> 100,000
L_{50}	25 °C	> 72,000	> 100,000
	50 °C	> 72,000	> 100,000

Physical

Dimensions (Height x Width x Depth)	183.7 x 338 x 171 mm (7.2 x 13.3 x 6.75 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, 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

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

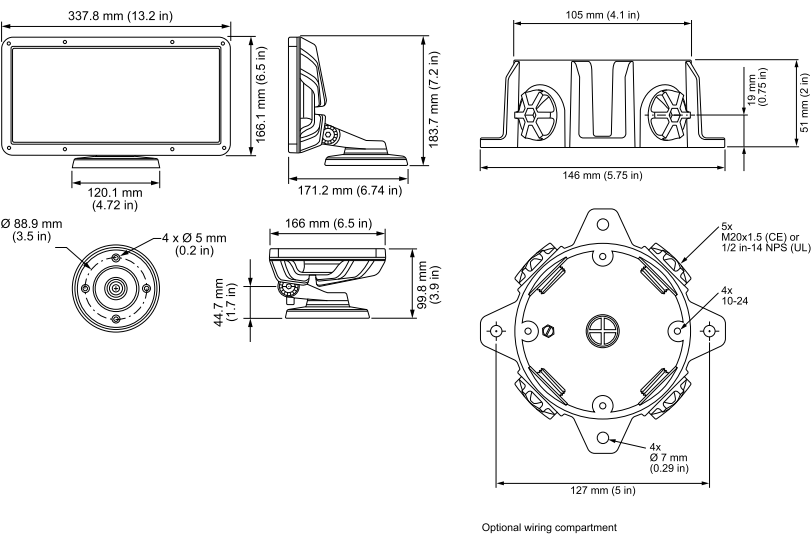|	
Approbation	UL/cUL, FCC Class A, CE, PSE, CQC, RCM
Environment	Dry/Damp/Wet Location, IP66

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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.

§ 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.

¶ 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

337.8 mm (13.2 in)
166.1 mm (6.5 in)
120.1 mm (4.72 in)
183.7 mm (7.2 in)
171.2 mm (6.74 in)
105 mm (4.1 in)
19 mm (0.75 in)
51 mm (2 in)
146 mm (5.75 in)

Ø 88.9 mm (3.5 in)
4 x Ø 5 mm (0.2 in)
166 mm (6.5 in)
44.7 mm (1.7 in)
99.8 mm (3.9 in)
5x M20x1.5 (CE) or 1/2 in-14 NPS (UL)
4x 10-24
4x Ø 7 mm (0.29 in)
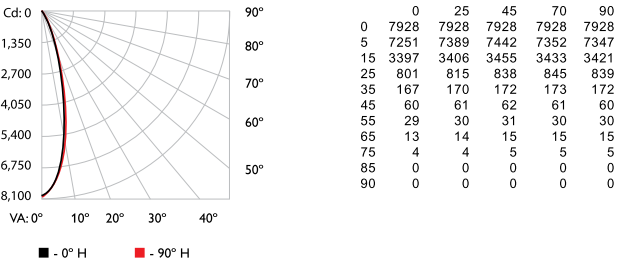127 mm (5 in)

Optional wiring compartment

Photometrics, all channels full on

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

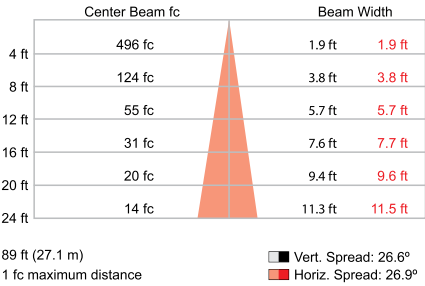|	
Beam Angle	20°
LEDs	All channels full on
Lumens All Channels Full On	2,121
Efficacy (lm/W) All Channels Full On	40.2

Polar Candela Distribution

	0	25	45	70	90
0	7928	7928	7928	7928	7928
5	7251	7389	7442	7352	7347
15	3397	3406	3455	3433	3421
25	801	815	838	845	839
35	167	170	172	173	172
45	60	61	62	61	60
55	29	30	31	30	30
65	13	14	15	15	15
75	4	4	5	5	5
85	0	0	0	0	0
90	0	0	0	0	0

■ - 0° H   ■ - 90° H

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	1,929.6	90.7%
0-40	2,038.5	95.8%
0-60	2,110.3	99.2%
0-90	2,127.2	100.0%
60-90	17.0	0.8%
70-100	4.0	0.2%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	2,127.2	100.0%

Illuminance at Distance

	Center Beam fc		Beam Width	
4 ft	496 fc		1.9 ft	1.9 ft
8 ft	124 fc		3.8 ft	3.8 ft
12 ft	55 fc		5.7 ft	5.7 ft
16 ft	31 fc		7.6 ft	7.7 ft
20 ft	20 fc		9.4 ft	9.6 ft
24 ft	14 fc		11.3 ft	11.5 ft

89 ft (27.1 m)
1 fc maximum distance

■ Vert. Spread: 26.6°
■ Horiz. Spread: 26.9°

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			
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	1.12	1.10	1.08	1.12	1.10	1.08	0.96	1.06	1.05	1.03	1.03	1.01	1.00	0.99	0.98	0.98	0.96
2	1.10	1.06	1.03	1.01	1.08	1.05	1.02	0.92	1.02	0.99	0.97	0.99	0.97	0.95	0.96	0.95	0.93	0.92
3	1.06	1.01	0.97	0.94	1.05	1.00	0.96	0.89	0.98	0.95	0.92	0.95	0.93	0.91	0.93	0.91	0.89	0.88
4	1.03	0.97	0.93	0.89	1.01	0.96	0.92	0.85	0.94	0.90	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.85
5	0.99	0.93	0.88	0.85	0.98	0.92	0.88	0.82	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.85	0.83	0.81
6	0.96	0.89	0.85	0.81	0.95	0.88	0.84	0.79	0.87	0.83	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.78
7	0.93	0.86	0.81	0.78	0.92	0.85	0.81	0.77	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.76
8	0.90	0.83	0.78	0.75	0.89	0.82	0.78	0.74	0.81	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.73
9	0.87	0.80	0.76	0.73	0.86	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.71
10	0.85	0.78	0.73	0.70	0.84	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69

For lux multiply fc by 10.7

Luminaire and Accessories

Luminaire	Item Number	Item 12NC
ColorBlast IntelliHue Powercore gen4 100 – 277 VAC, White Housing, UL/CE/CQC	423-000011-00	912400130371
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.		

Associated Part		
20° Spread lens	120-000185-08	912400130344
Trim Ring required for mounting. Must be ordered separately.		

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

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

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