

# ColorBlast IntelliHue Powercore gen4

Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

**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 gen4 Product Guide at [www.colorkinetics.com/global/products/intellihue/colorblast-powercore-gen4/](http://www.colorkinetics.com/global/products/intellihue/colorblast-powercore-gen4/)

# 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
For CRI values see 10° Native (no spread lens) specification sheet	
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
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](http://www.colorkinetics.com/KB/surge-protection).

## Control

Interface	Data Enabler Pro (DMX/Ethernet)
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### 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
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## Lumen Maintenance

Threshold <sup>§</sup>	Ambient Temperature	Reported¶¶	Calculated¶¶
L <sub>90</sub>	50 °C	51,420	51,420
L <sub>80</sub>	50 °C	> 72,000	> 100,000
L <sub>70</sub>	50 °C	> 72,000	> 100,000
L <sub>50</sub>	50 °C	> 72,000	> 100,000

## 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, 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/](http://www.colorkinetics.com/support/install_tool/)

## Certification and Safety

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

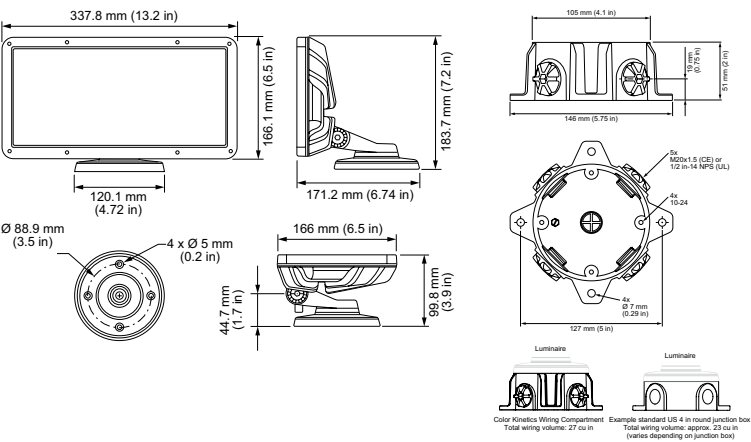
† Lumen measurement complies with IES LM-79-08 testing procedures.

§ 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.

Dimensions



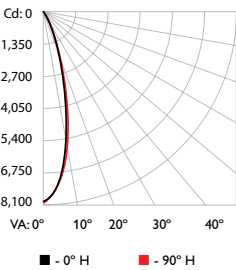
Photometrics all channels full on

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.colorkinetics.com/global/support/ies](http://www.colorkinetics.com/global/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
90°	0	7928	7928	7928	7928
80°	5	7251	7389	7442	7352
70°	15	3397	3406	3455	3433
60°	25	801	815	838	845
50°	35	167	170	172	173
	45	60	61	62	61
	55	29	30	31	30
	65	13	14	15	15
	75	4	4	5	5
	85	0	0	0	0
	90	0	0	0	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°

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%

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																
RCC %:	80	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0		
RW %:	70	50	30	0	50	30	20	50	30	20	0	50	30	20	0	0		
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	0.95	0.99	0.97	0.95	0.96	0.95	0.93
3	1.06	1.01	0.97	0.94	1.05	1.00	0.96	0.89	0.98	0.95	0.93	0.91	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	0.75	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

# Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
ColorBlast IntelliHue Powercore gen4, 100 – 277 VAC, White Housing, UL/CE/CQC	423-000011-00	912400130371
<i>Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.</i>		
<b>Associated Part</b>		
20° Spread lens	120-000185-08	912400130344
<i>Trim Ring required for mounting. Must be ordered separately.</i>		
<b>Accessories</b>		
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
<b>Power Supplies</b>		
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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Color Kinetics  
[www.colorkinetics.com/global/products/intellihue/colorblast-powercore-gen4/](http://www.colorkinetics.com/global/products/intellihue/colorblast-powercore-gen4/)