

ColorBlast IntelliHue Powercore gen4

Date: _____
Type: _____
Firm Name: _____
Project: _____

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

Exterior customizable floodlight luminaire with intelligent white and color light

ColorBlast IntelliHue Powercore high-performance LED luminaires combine white and rich, saturated, color and color-changing effects with simplified installation. 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/

Specifications

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

Output

| | |
|--------------------------------------|---------------------------|
| Beam Angle | 10° |
| Lumens All Channels Full On† | 2,434 |
| Lumens @ 2700 K* | 1,446 |
| Lumens @ 4000 K* | 1,773 |
| Efficacy (lm/W) All Channels Full On | 50.8 |
| Efficacy (lm/W) @ 2700 K | 65.5 |
| Efficacy (lm/W) @ 4000 K | 62.5 |
| CRI All Channels Full On¶¶ | - |
| CRI @ 2700 K¶¶ | 91.6 |
| CRI R9 @ 2700 K¶¶ | 81.1 |
| CRI @ 4000 K¶¶ | 86.2 |
| CRI R9 @ 4000 K¶¶ | 65.8 |
| 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 | ActiveSite Ready, works with Interact Landmark |
|--------------------------------|--|

Lumen Maintenance

| Threshold [§] | Ambient Temperature | Reported¶ | Calculated¶ |
|------------------------|---------------------|-----------|-------------|
| L ₉₀ | 25 °C | 13,100 | 13,100 |
| | 50 °C | 13,100 | 13,100 |
| L ₈₀ | 25 °C | 28,600 | 28,600 |
| | 50 °C | 28,600 | 28,600 |
| L ₇₀ | 25 °C | 46,100 | 46,100 |
| | 50 °C | 46,100 | 46,100 |
| L ₅₀ | 25 °C | > 54,000 | 90,300 |
| | 50 °C | > 54,000 | 90,300 |

* 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.

§ L_{xx} = 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.

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

¶¶ CRI refers to CRI Ra value, CRI R9 refers to R9 value in accordance with IESNA LM-79 standards.

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 m ² (0.73 ft ²) (Luminaire plus Full Glare Shield) |
| Housing Material | Die-cast aluminium, 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

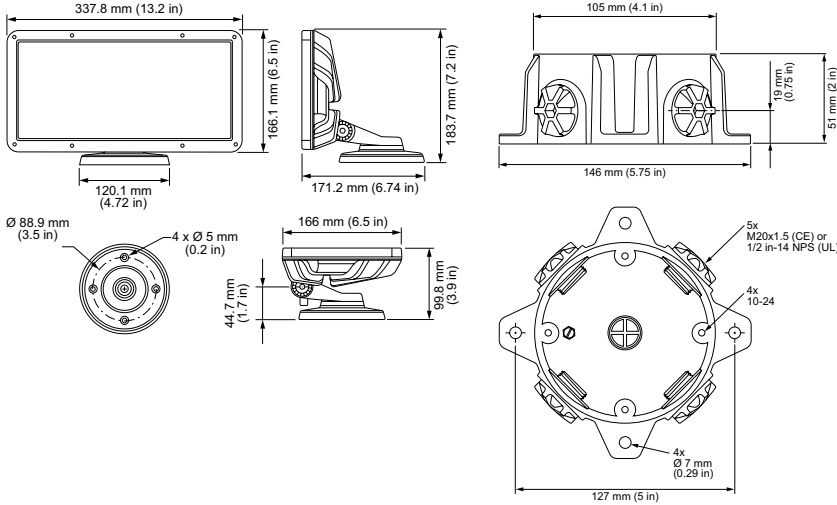
To calculate luminaire run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/

Certification and Safety

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



Dimensions



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 | 10° |
| LEDs | All channels full on |
| Lumens All Channels Full On | 2,434 |
| Efficacy (lm/W) All Channels Full On | 50.8 |

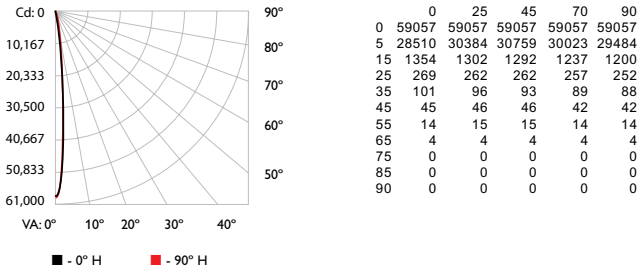


Illuminance at Distance

| | Center Beam fc | Beam Width |
|-------|----------------|---------------|
| 4 ft | 3,691 fc | 0.6 ft 0.6 ft |
| 8 ft | 923 fc | 1.3 ft 1.3 ft |
| 12 ft | 410 fc | 1.9 ft 1.9 ft |
| 16 ft | 231 fc | 2.6 ft 2.5 ft |
| 20 ft | 148 fc | 3.2 ft 3.2 ft |
| 24 ft | 103 fc | 3.8 ft 3.8 ft |

243 ft (74.1 m)
1 fc maximum distance
Vert. Spread: 9.2°
Horiz. Spread: 9.0°

Polar Candela Distribution



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|---------|-------------|
| 0-30 | 2,402.9 | 95.7% |
| 0-40 | 2,462.2 | 98.0% |
| 0-60 | 2,508.4 | 99.9% |
| 0-90 | 2,511.6 | 100.0% |
| 60-90 | 3.2 | 0.1% |
| 70-100 | 0.1 | 0.0% |
| 90-120 | 0.0 | 0.0% |
| 90-180 | 0.0 | 0.0% |
| 0-180 | 2,511.6 | 100.0% |

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

| RCC %: | Effective Floor Cavity Reflectance: 20% | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 | | |
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 50 | 30 | 20 | 50 | 30 | 20 | 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 | 1.01 | 1.01 | 1.00 | 0.98 | |
| 1 | 1.16 | 1.14 | 1.13 | 1.11 | 1.14 | 1.12 | 1.11 | 0.99 | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.01 | 1.01 | 1.00 | 0.98 | 1.00 | 0.99 | 0.98 | 0.97 | |
| 2 | 1.13 | 1.10 | 1.08 | 1.06 | 1.11 | 1.09 | 1.06 | 0.97 | 1.06 | 1.04 | 1.02 | 1.03 | 1.01 | 1.00 | 1.01 | 0.99 | 0.98 | 0.99 | 0.98 | 0.97 | 0.95 | 0.95 | |
| 3 | 1.11 | 1.07 | 1.04 | 1.02 | 1.09 | 1.06 | 1.03 | 0.96 | 1.03 | 1.01 | 1.00 | 1.01 | 0.99 | 0.98 | 1.00 | 0.99 | 0.98 | 0.99 | 0.98 | 0.97 | 0.95 | 0.94 | |
| 4 | 1.08 | 1.04 | 1.01 | 0.99 | 1.07 | 1.03 | 1.00 | 0.95 | 1.01 | 0.99 | 0.97 | 1.00 | 0.98 | 0.96 | 0.98 | 0.96 | 0.95 | 0.96 | 0.95 | 0.94 | 0.92 | 0.91 | |
| 5 | 1.06 | 1.02 | 0.99 | 0.97 | 1.05 | 1.01 | 0.98 | 0.94 | 1.00 | 0.97 | 0.95 | 0.98 | 0.96 | 0.95 | 0.97 | 0.95 | 0.94 | 0.95 | 0.94 | 0.93 | 0.91 | 0.90 | |
| 6 | 1.05 | 1.00 | 0.97 | 0.95 | 1.04 | 0.99 | 0.96 | 0.92 | 0.98 | 0.96 | 0.94 | 0.97 | 0.95 | 0.93 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | |
| 7 | 1.03 | 0.98 | 0.95 | 0.93 | 1.02 | 0.98 | 0.95 | 0.91 | 0.97 | 0.94 | 0.92 | 0.96 | 0.94 | 0.92 | 0.95 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | |
| 8 | 1.01 | 0.97 | 0.94 | 0.92 | 1.01 | 0.96 | 0.93 | 0.90 | 0.95 | 0.93 | 0.91 | 0.95 | 0.93 | 0.91 | 0.94 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | |
| 9 | 1.00 | 0.95 | 0.92 | 0.91 | 0.99 | 0.95 | 0.92 | 0.90 | 0.94 | 0.92 | 0.90 | 0.94 | 0.92 | 0.90 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | |
| 10 | 0.99 | 0.94 | 0.91 | 0.90 | 0.98 | 0.94 | 0.91 | 0.89 | 0.93 | 0.91 | 0.89 | 0.93 | 0.91 | 0.89 | 0.92 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | |

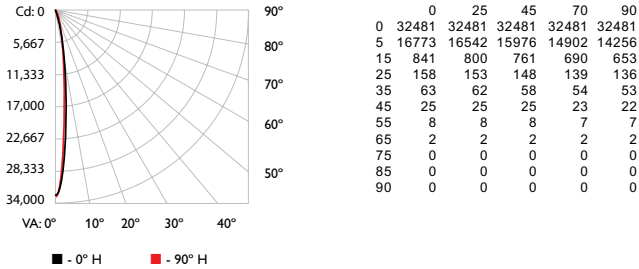
Photometrics, 2700 K

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

| | |
|--------------------------|--------|
| Beam Angle | 10° |
| LEDs at | 2700 K |
| Lumens @ 2700 K | 1,446 |
| Efficacy (lm/W) @ 2700 K | 65.5 |



Polar Candela Distribution



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|---------|-------------|
| 0-30 | 1,398.0 | 95.6% |
| 0-40 | 1,434.0 | 98.1% |
| 0-60 | 1,459.7 | 99.9% |
| 0-90 | 1,461.7 | 100.0% |
| 60-90 | 2.0 | 0.1% |
| 70-100 | 0.1 | 0.0% |
| 90-120 | 0.0 | 0.0% |
| 90-180 | 0.0 | 0.0% |
| 0-180 | 1,461.7 | 100.0% |

For lux multiply fc by 10.7

Illuminance at Distance

| | Center Beam fc | Beam Width |
|-------|----------------|---------------|
| 4 ft | 2,030 fc | 0.7 ft 0.6 ft |
| 8 ft | 508 fc | 1.3 ft 1.3 ft |
| 12 ft | 226 fc | 2.0 ft 1.9 ft |
| 16 ft | 127 fc | 2.7 ft 2.6 ft |
| 20 ft | 81 fc | 3.3 ft 3.2 ft |
| 24 ft | 56 fc | 4.0 ft 3.9 ft |

180 ft (54.9 m)
1 fc maximum distance
Vert. Spread: 9.5°
Horiz. Spread: 9.3°

Coefficients of Utilization - Zonal Cavity Method

| RCC %: | 80 | 70 | 50 | 30 | 10 | 0 |
|--------|------|------|------|------|------|------|
| RW %: | 70 | 50 | 30 | 20 | 10 | 0 |
| RCR: | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.00 |
| 1 | 1.16 | 1.14 | 1.13 | 1.11 | 1.14 | 1.12 |
| 2 | 1.13 | 1.10 | 1.08 | 1.06 | 1.11 | 1.09 |
| 3 | 1.11 | 1.07 | 1.04 | 1.02 | 1.09 | 1.06 |
| 4 | 1.08 | 1.04 | 1.01 | 0.99 | 1.07 | 1.03 |
| 5 | 1.06 | 1.02 | 0.99 | 0.96 | 1.05 | 1.01 |
| 6 | 1.04 | 1.00 | 0.97 | 0.94 | 1.03 | 0.99 |
| 7 | 1.03 | 0.98 | 0.95 | 0.93 | 1.02 | 0.98 |
| 8 | 1.01 | 0.96 | 0.93 | 0.91 | 1.00 | 0.96 |
| 9 | 1.00 | 0.95 | 0.92 | 0.90 | 0.99 | 0.95 |
| 10 | 0.99 | 0.94 | 0.91 | 0.89 | 0.98 | 0.94 |

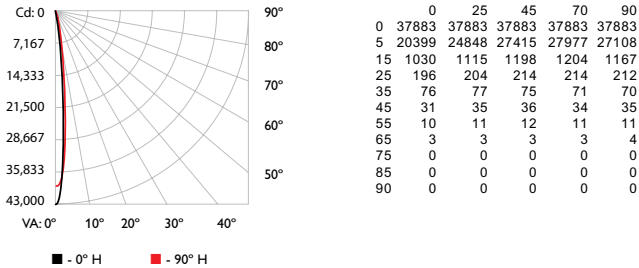
Photometrics, 4000 K

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

| | |
|--------------------------|--------|
| Beam Angle | 10° |
| LEDs at | 4000 K |
| Lumens @ 4000 K | 1,773 |
| Efficacy (lm/W) @ 4000 K | 62.5 |



Polar Candela Distribution



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|---------|-------------|
| 0-30 | 1,752.3 | 95.6% |
| 0-40 | 1,796.3 | 98.0% |
| 0-60 | 1,829.7 | 99.9% |
| 0-90 | 1,832.4 | 100.0% |
| 60-90 | 2.6 | 0.1% |
| 70-100 | 0.1 | 0.0% |
| 90-120 | 0.0 | 0.0% |
| 90-180 | 0.0 | 0.0% |
| 0-180 | 1,832.4 | 100.0% |

For lux multiply fc by 10.7

Illuminance at Distance

| | Center Beam fc | Beam Width |
|-------|----------------|---------------|
| 4 ft | 2,368 fc | 0.7 ft 0.6 ft |
| 8 ft | 592 fc | 1.3 ft 1.3 ft |
| 12 ft | 263 fc | 2.0 ft 1.9 ft |
| 16 ft | 148 fc | 2.6 ft 2.6 ft |
| 20 ft | 95 fc | 3.3 ft 3.2 ft |
| 24 ft | 66 fc | 3.9 ft 3.9 ft |

195 ft (59.4 m)
1 fc maximum distance
Vert. Spread: 9.3°
Horiz. Spread: 9.2°

Coefficients of Utilization - Zonal Cavity Method

| RCC %: | 80 | 70 | 50 | 30 | 10 | 0 |
|--------|------|------|------|------|------|------|
| RW %: | 70 | 50 | 30 | 20 | 10 | 0 |
| RCR: | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.00 |
| 1 | 1.16 | 1.14 | 1.13 | 1.11 | 1.14 | 1.12 |
| 2 | 1.13 | 1.10 | 1.08 | 1.06 | 1.11 | 1.09 |
| 3 | 1.11 | 1.07 | 1.04 | 1.02 | 1.09 | 1.06 |
| 4 | 1.08 | 1.04 | 1.01 | 0.99 | 1.07 | 1.03 |
| 5 | 1.06 | 1.02 | 0.99 | 0.96 | 1.05 | 1.01 |
| 6 | 1.04 | 1.00 | 0.97 | 0.94 | 1.03 | 0.99 |
| 7 | 1.03 | 0.98 | 0.95 | 0.93 | 1.02 | 0.98 |
| 8 | 1.01 | 0.96 | 0.93 | 0.91 | 1.00 | 0.96 |
| 9 | 1.00 | 0.95 | 0.92 | 0.90 | 0.99 | 0.95 |
| 10 | 0.99 | 0.94 | 0.91 | 0.89 | 0.98 | 0.94 |

Luminaire and Accessories

Use Item Number when ordering in North America

| Luminaire | Item Number | Item 12NC |
|---|---------------|--------------|
| ColorBlast IntelliHue Powercore gen4 100 – 277 VAC, Gray Housing, UL/CE/CQC | 423-000011-04 | 912400133545 |
| 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 |
| 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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Color Kinetics
www.colorkinetics.com/global/products/intellihue/colorblast-powercore-gen4/