# Blast Powercore gen5, eW

Date:
Type:
Firm Name:
Project:

**OptiField, 3000 K, Gray housing**

## Exterior customizable OptiField luminaire with single temperature white light

Blast Powercore gen5, eW OptiField high-performance LED luminaires provide uniform lighting across large surfaces. Blast Powercore gen5, eW OptiField increases application efficiency by directing more light on a specific target and offers a range of accessories that allow for customization, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminium housing.

- Uniform illumination—Blast Powercore gen5, eW OptiField delivers extremely uniform illumination, providing smooth walls of light that appear perfect to the eye. And thanks to our breakthrough optics, you can place luminaires exceptionally close to illuminated surfaces.
- Precise control of light—Asymmetric optic design provides precise control of light and delivers more illumination with higher uniformity at a lower power than comparable fluorescent asymmetric reflector solutions.
- Design flexibility—Blast Powercore gen5, eW OptiField is designed to adapt to its surroundings regardless of the wall height, setback, or spacing of an installation.
- Expands customization with a range of new accessory options. Three housing color choices (black, gray, and white)—plus the option to add or combine a rock guard with either a full glare shield or a half glare shield—create new aesthetic possibilities for designers and architects.
- Blast is known for providing years of reliable use under rugged conditions. Blast gen5 raises reliability even further with more protection from corrosion by meeting ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating, and elimination of water pooling.
- 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 (UL/CE/CQC).
- Precision Dimming—Smooth dimming down to 1% with optional Data Enabler Pro, 4 conductor cable and digital control interface.

For detailed product information, please refer to the Blast Product Guide at www.colorkinetics.com/global/products/essentialwhite/blast-powercore-gen5-ew-optifield

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# Specifications

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

## Output

| | |
|---|---|
| Color Temperature * | 3000 K |
| Beam | Wall Washing |
| Lumens † | 2,399 |
| Efficacy (lm/W) | 52.3 |
| CRI | 82.5 |

## Electrical

| | |
|---|---|
| Input Voltage | 100 to 277 VAC, auto-ranging, 50/60 Hz |
| Power Consumption (Maximum at full output, steady state) | 45.9 W |
| Power Factor | 0.9 @ 120 VAC |
| Surge Limits ¶ | 2 kV maximum differential (L to N)<br>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

| | |
|---|---|
| Control Channels | 1 channel per luminaire |

For additional Control Channel information, please refer to https://colorkinetics.helpdocs.io/article/fv5rkpvclq.

### Dimmer

ON/OFF; precision dimming by 4 conductor cable & Data Enabler Pro

Remote Monitoring & Management Works with Interact Landmark

## Lumen Maintenance

| Threshold§ | Ambient Temperature | Reported ¶¶ | Calculated ¶¶ |
|---|---|---|---|
| $L_{90}$ | 25 °C | 44,202 | 44,202 |
| | 50 °C | 44,202 | 44,202 |
| $L_{70}$ | 25 °C | >60,000 | >100,000 |
| | 50 °C | >60,000 | >100,000 |
| $L_{50}$ | 25 °C | | >100,000 |
| | 50 °C | | >100,000 |

## Physical

| | |
|---|---|
| Dimensions (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 (8.3 lb) |
| Effective Projected Area (EPA) | 0.068 m² (0.73 ft²)<br>(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 B, PSE, CQC, RCM |
| Environment | Dry/Damp/Wet Location, IP66 |

* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

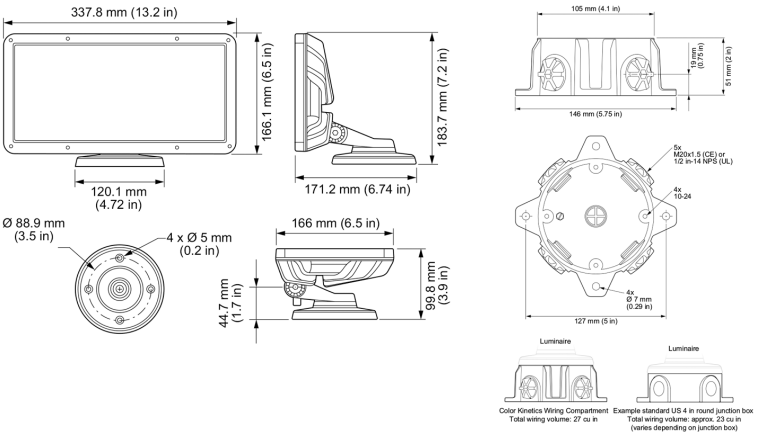
† Lumen measurement complies with IES LM-79-08 testing procedures.

§ 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.

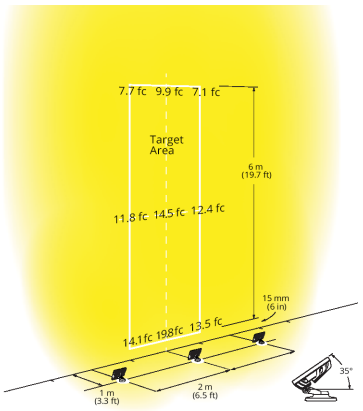
# Dimensions




# Photometrics OptiField, 3000 K, 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.

| Beam | Wall Washing |
|---|---|
| LEDs @ | 3000 K |
| Lumens | 2,399.0 |
| Target area uniformity | 4.3:1 |
| Efficacy (lm/W) | 52.3 |

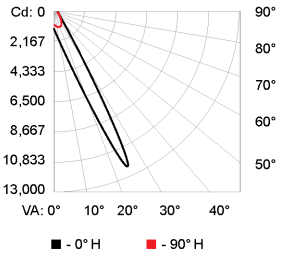




## Zonal Lumen

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 1623.8 | 66.0% |
| 0-40 | 1999.8 | 81.3% |
| 0-60 | 2337.5 | 95.0% |
| 60-90 | 123.4 | 5.0% |
| 70-100 | 40.3 | 1.6% |
| 90-120 | 0.0 | 0.0% |
| 0-90 | 2460.9 | 100.0% |
| 90-180 | 0.0 | 0.0% |
| 0-180 | 2460.9 | 100.0% |

For lux multiply fc by 10.7

## Polar Candela Distribution




| | 0 | 25 | 45 | 70 | 90 |
|---|---|---|---|---|---|
| 0 | 1075 | 1075 | 1075 | 1075 | 1075 |
| 5 | 1402 | 1365 | 1289 | 1186 | 1109 |
| 15 | 3536 | 3039 | 2291 | 1506 | 1117 |
| 25 | 12173 | 7950 | 2968 | 1322 | 980 |
| 35 | 281 | 507 | 939 | 464 | 525 |
| 45 | 267 | 227 | 204 | 198 | 205 |
| 55 | 174 | 159 | 139 | 136 | 120 |
| 65 | 67 | 72 | 78 | 80 | 71 |
| 75 | 25 | 25 | 27 | 33 | 30 |
| 85 | 1 | 2 | 2 | 5 | 3 |
| 90 | 0 | 0 | 0 | 0 | 0 |

**Blast Powercore gen5, OptiField Notes**
Although this luminaire is designed to meet a large number of installation needs, specifically wall heights, we recommend using a measurement area like the example with a measurement grid of 6 m (19.7 ft) or smaller. This approach will help you consistently create simulations that match mock-ups. In order to achieve the highest delivered illuminance and maximum level of uniformity, we recommend aiming the luminaire at a 35° rotation.

# Luminaire and Accessories

Use Item Number when ordering in North America

| Luminaire | Item Number | Item 12NC |
|---|---|---|
| Blast Powercore gen5, eW, OptiField, 3000 K, Gray housing | 523-000115-02 | 912400137997 |
| **Accessories** | | |
| Rock Guard, Gray | 120-000185-18 | 912400133533 |
| Half Glare Shield, Gray | 120-000185-19 | 912400133534 |
| Full Glare Shield, Gray | 120-000185-16 | 912400133531 |
| Wiring Compartment UL/cUL, Gray | 106-000011-32 | 910503704149 |
| Wiring Compartment CE, Gray | 106-000011-42 | 910503703277 |
| Architectural Mounting Arm, Short, Gray | 120-000206-00 | 912400136642 |
| Architectural Mounting Arm, Medium, Gray | 120-000206-01 | 912400136643 |
| Architectural Mounting Arm, 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 |

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