ColorBlast Powercore gen4

Date:	
Туре:	
Firm Name:	
Project:	

RGBW, 100 – 277 VAC, 80° Spread Lens, White Housing, UL/CE/CQC

Exterior versatile and customizable luminaire with intelligent RGBW light

ColorBlast Powercore gen4 high-performance LED luminaires combine white and rich, saturated, color and color-changing effects with simplified installation. ColorBlast Powercore gen4 offers a range of accessories that allow 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.

- 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 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.
- · Universal power input range 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/rgb/ colorblast-powercore-gen4-rgbw/



Specifications

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

Output

Beam Angle	80°
Lumens [†]	1,772
Efficacy (lm/W)	34.5
LED Channels	Red/Green/Blue/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
	0.9 @ 277 VAC
Surge Limits¶	1 kV maximum differential (L to N)
2 k	V 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 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	50 °C	51,420	51,420
L ₈₀	50 °C	> 72,000	> 100,000
L ₇₀	50 °C	> 72,000	> 100,000
L ₅₀	50 °C	> 72,000	> 100,000

Physical

Dimensions	183.7	x 337.8 x 171.2 mm (7.2 x 13.2 x 6.74 in)
(Height × Width × Depth)		
Weight		3.9 kg (8.2 lb)
Effective Projected Are	ea (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 Connection:	S	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

Mechanical Impact IK10

Corrosion Resistance

Humidity

Complies with ASTM B117 standard for > 1,500 hours

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

For additional Energy Efficiency Class Information, please refer to https://colorkinetics.helpdocs.io/article/cviis2p8qq.



 † 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.

 $\P\,$ 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.

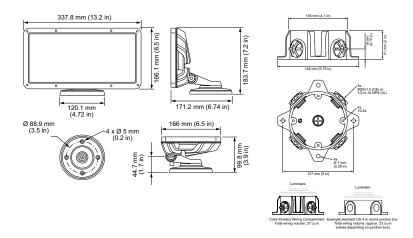
Dimensions

200 400 600

800 1,000 1,200 VA: 0° 10° 20° 30° 40'

- 0° H

- 90° H



Photometrics 80° frosted 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		809	•		
LED		RGBW		80*	
Lumens		1,772			
Efficacy (lm/W)		34.5	-		A.
					_
Polar Candela Distribution					
	0	25	45	70	90
Cd:0 90	0	25	45	10	30

	90°		0	25	45	70	90
		0	1086	1086	1086	1086	1086
1-1	80°	5	1059	1079	1096	1097	1103
J //		15	979	1012	1047	1078	1099
\frown	700	25	860	893	932	977	1006
< /	70°	35	674	688	702	729	747
\times		45	406	397	386	370	365
$\langle - \rangle$	60°	55	185	171	152	131	122
\sim 1		65	69	62	53	46	43
		75	23	22	20	18	17
	50°	85	3	3	3	3	3
		90	0	0	0	0	0

	Center Beam fc	Beam	Width	Zone	Lumens	% Luminai
4 ft	68 fc	6.4 ft	6.3 ft	0-30 0-40	826.4 1.266.4	46. 71.
8 ft	17 fc	12.8 ft	12.6 ft	0-60 0-90	1,695.7	95. 100.
12 ft	8 fc	19.1 ft	18.9 ft	60-90 70-100	76.1 23.3	4.:
6 ft	4 fc	25.5 ft	25.2 ft	90-120 90-180	0.0	0.
20 ft	3 fc	31.9 ft	31.5 ft	0-180	1,771.7	100.
24 ft	2 fc	38.3 ft	37.9 ft			
3 ft (10.		Vert. Spre				
I fc maxi	mum distance	📕 Horiz. Spr	ead: 76.5°	For lux n	nultiply fc b	y 10.7

Coefficients of Utilization - Zonal Cavity Method

RCC %:	80	70	Effective F	loor Cavity 30	Reflectance: 10	20% 0
RW %:70	50 30 0	70 50 30 0	50 30 20	50 30 20	50 30 20	ō
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 1.12	1.09 1.06 1.03	1.09 1.06 1.04 0.91	1.02 1.00 0.98	0.98 0.97 0.95	0.95 0.94 0.92	0.90
2 1.05	0.99 0.94 0.89	1.02 0.97 0.92 0.82	0.93 0.90 0.86	0.90 0.87 0.84	0.88 0.85 0.83	0.81
3 0.98	0.90 0.83 0.79	0.96 0.88 0.82 0.74	0.85 0.81 0.77	0.83 0.79 0.75	0.81 0.77 0.74	0.72
4 0.91	0.82 0.75 0.70	0.89 0.81 0.74 0.66	0.78 0.73 0.68	0.76 0.71 0.68	0.74 0.70 0.67	0.65
5 0.85	0.75 0.68 0.62	0.83 0.74 0.67 0.60	0.72 0.66 0.61	0.70 0.65 0.61	0.68 0.64 0.60	0.59
6 0.80	0.69 0.62 0.56	0.78 0.68 0.61 0.55	0.66 0.60 0.56	0.65 0.59 0.55	0.63 0.59 0.55	0.53
7 0.75	0.63 0.56 0.51	0.73 0.63 0.56 0.50	0.61 0.55 0.51	0.60 0.54 0.50	0.59 0.54 0.50	0.48
	0.59 0.52 0.47	0.69 0.58 0.51 0.46	0.57 0.51 0.46	0.56 0.50 0.46		0.44
9 0.66	0.55 0.47 0.43	0.65 0.54 0.47 0.42	0.53 0.47 0.42	0.52 0.46 0.42	0.51 0.46 0.42	0.40
10 0.62	0.51 0.44 0.39	0.61 0.50 0.44 0.39	0.49 0.43 0.39	0.49 0.43 0.39	0.48 0.43 0.39	0.37

Luminaire and Accessories

Luminaire	Item Number	ltem 12NC
ColorBlast Powercore gen4, RGBW, 100 – 277 VAC, White Housing, UL/CE/CQC	423-000012-00	912400130375
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens	combined. Spread lens available below in A	ssociated Part.
Associated Part		
80° Spread lens	120-000185-11	912400130347
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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