## ColorGraze MX4 Powercore

Date:	
Гуре:	
Firm Name:	
Project:	

RGBA, 9° x 9° Beam Angle, 305 mm (1 ft)

# Exterior linear grazing luminaire with intelligent RGBW or RGBA light

ColorGraze MX4 Powercore is a high-performance, exterior linear luminaire designed to highlight architectural features ranging from surface textures and molding details to archways and windows. Graze RGBW luminaires add a separate white LED creating betterquality whites compared to RGB. Graze RGBA luminaires add a separate amber LED which expands the available range of colors to include warmer tones such as rich gold, yellow, and orange shades. Multiple fixture lengths, and beam angles support a large range of façade or surface illumination applications. Low-profile housing, connectorized cabling, a universal power input range, and direct line voltage operation make Graze luminaires easy to install and operate.

- Tailor light output to specific applications—Available in four standard lengths (1 ft, 2 ft, 3 ft, and 4 ft), and five standard 9° x 9°, 10° x 60°, 15° x 30°, 30° x 60°, and 60° x 30° beam angles.
- Flexible integration—Graze's ultra-low profile lets it fit discretely into almost any layout, from simple to elaborate.
- Customizable accessories Customize your Graze luminaire with a choice of three accessories: mounting arm, masking shield, and graze louver. Mounting arm available in three sizes and three colors (black, white, and gray), and masking shield available in four lengths (1 ft, 2 ft, 3 ft, and 4 ft).
- 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.



- Graze provides years of reliable use under rugged conditions by meeting ANSI C136.31- 2010 standard with a 3G vibration rating, and elimination of water pooling on the lens.
- Works seamlessly with the Color Kinetics full range of controllers, including Light System Manager, Video System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro—as well as third-party controllers.
- Convenient push-and-click connectors let you easily and rapidly install Leader Cables and Jumper Cables. Constant torque locking hinges offer simple and consistent position control from various angles.

For detailed product information, please refer to the Graze Product Guide at www.colorkinetics.com/global/products/rgb/colorgraze-mx4-powercore/



### Specifications

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

#### Output

•	
Beam Angle	9° x 9°
Lumens <sup>†</sup>	566
Efficacy (Im/W) <sup>§§</sup>	31.2
LED Channels	Red/Green/Blue/Amber

#### Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz	
Power Consumption	18.5 W	
(Maximum at full output, steady state)		
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		

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

#### Control Interface

Data Enabler Pro (DMX or 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 Works with Interact Landmark

#### Lumen Maintenance

	Ambient		
Threshold§	Temperature	Reported ¶¶	Calculated ¶¶
L 70	25 °C	70,000	> 100,000
	50 °C	65,000	> 100,000
L 50	25 °C	75,000	
	50 °C	70,000	

#### Physical

Dimensions	68 x 305 x 72 mm (2.7 x 12 x 2.85 in)
(Height × Width × Depth)	
Weight	1 kg (2.1 lb)
Housing Material	Extruded anodized aluminium
Lens	Clear UV-protected polycarbonate
Luminaire Connections	Integral male/female waterproof connectors
Mounting	Multi-positional, constant torque locking hinges

#### **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**

Not suitable for salt spray or harsh chemical environments. Please refer to www.colorkinetics.com/KB/corrosion-resistance for more information.

The word Ducto stick, an able d
Humidity 0 to 95%, non-cond

#### 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 A, CE, PSE, CQC, C-Tick			
Environment	Dry/Damp/Wet Location, IP66			
For additional Energy Efficiency Class Information, please refer to				
https://colorkinetics.helpdocs.io/article/cv	viis2p8qq.			

† 305 mm (1 ft) lumen output measurements comply with IES LM-79-08 testing procedures. 610 mm (2 ft), 914 mm (3 ft), and 1219 mm (4 ft) measurements are estimated based on the 305 mm (1 ft) measurements.

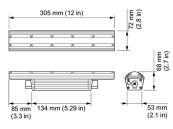
\$ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

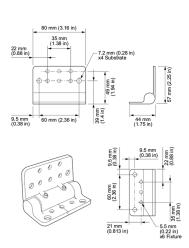
¶ Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

§§ Efficacy measurements are estimated based on the 305 mm (1 ft) measurements.

**¶** 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 305 mm (1 ft), 9° x 9° beam angle

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	9° x 9°	٠	<b>9</b> '	111	uminance a	t Distance	Zonal Lumen
LED	RGBA	Ś		5	Center Beam fc	Beam Width	Zone Lumens % Fixture
Lumens	566.0			4 f	690 fc	0.7 ft 1.0 ft	0 - 60 651.5 99.4 %
Efficacy (lm/W)	31.2			8 f	173 fc	1.4 ft 1.9 ft	60 - 90 3.3 0.5 % 0 - 90 654.8 99.9 %
				12 f	77 fc	2.1 ft 2.9 ft	
				16 f	43 fc	2.8 ft 3.8 ft	
				20 f	28 fc	3.5 ft 4.8 ft	
				24 f	19 fc	4.2 ft 5.8 ft	
Polar Candela Distribution	$\begin{array}{cccccc} 0 & 25\\ 0 & 11041 & 11041\\ 5 & 4240 & 4488\\ 15 & 272 & 324\\ 25 & 39 & 44\\ 35 & 13 & 11\\ 45 & 5 & 5\\ 55 & 3 & 2\\ 75 & 1 & 1\\ 85 & 1 & 0\\ 90 & 0 & 0\\ \end{array}$	45 11041 5386 383 53 13 6 3 2 1 0 0	11041 110 6507 69 430 4 52	105 90 1 fc 41 09 72 C 49 17 7 RCC	ft (32 m) maximum distance <b>Oefficients o</b> *: 019 119 119 119 119 1116 114 112111 1131 2 113 110 107 105 1111 3 110 107 105 1111 4 108 104 101 98 96 1031 5 106 101 98 96 1031 6 104 99 96 94 103 7 102 97 94 92 101	Effective Floor Cavi 50 30 0 50 30 20 50 161 161 00 111 111 111 106 121 10 98 108 107 106 104 108 108 97 105 103 102 102 051 03 95 103 101 99 101 031 00 94 101 98 97 99 01 98 93 99 96 95 98 99 96 92 97 95 93 96	30 10 0   30 20 50 30 20 0   106 106 102 102 100   103 103 101 100 98   101 100 99 86 99 99 99 99 95 95 95 95 95 95 95 95 94 96 93 92 94 92 95 93 92 91 90 91 90 95 94 92 91 90 92 91 90 92 91 92 91 90 92 91 90 92 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 90 90 90 90 90 91 90 90 91 90 90 90 90 90 90 90 <t< td=""></t<>

### Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
ColorGraze MX4 Powercore, RGBA, 9° x 9° Beam Angle, 305 mm (1 ft)	423-000002-00	910503704702
Accessories		
4 Conductor Leader Cable, 100 to 277 VAC, 3 m (10 ft), UL	108-000055-03	910503704066
4 Conductor Leader Cable, 100 to 277 VAC, 15.2 m (50 ft), UL	108-000055-00	910503703137
4 Conductor Leader Cable, 100 to 277 VAC, 3 m (10 ft), CE/PSE	108-000055-04	910503704067
4 Conductor Leader Cable, 100 to 277 VAC, 15.2 m (50 ft), CE/PSE	108-000055-01	910503704064
4 Conductor Leader Cable, 100 to 277 VAC, 3 m (10 ft), BIS	108-000055-13	912400137373
4 Conductor Leader Cable, 1.52 m (5 ft), UL, for Inground Enclosure	108-000055-09	912400134321
4 Conductor Leader Cable, 1.52 m (5 ft), CE, for Inground Enclosure	108-000055-10	912400134322
Jumper Cable for use with Graze, UL/cUL, End-to-End	108-000057-00	910503703139
Jumper Cable for use with Graze, UL/cUL, 305 mm (1 ft)	108-000057-03	910503704076
Jumper Cable for use with Graze, UL/cUL, 1.5 m (5 ft)	108-000057-06	910503704079
Jumper Cable for use with Graze, CE/PSE, End-to-End	108-000057-01	910503704074
Jumper Cable for use with Graze, CE/PSE, 305 mm (1 ft)	108-000057-04	910503704077
Jumper Cable for use with Graze, CE/PSE, 1.5 m (5 ft)	108-000057-07	910503704080
Jumper Cable for use with Graze, BIS, End-to-End	108-000057-18	912400137377
Jumper Cable for use with Graze, BIS, 1.5 m (5 ft)	108-000057-19	912400137378
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
Symmetric Louver, 305 mm (1 ft)	120-000202-00	912400135849
Masking Shield, 305 mm (1 ft)	120-000203-00	912400135857
Graze Glare Shield, 305 mm (1 ft)	120-000081-00	910503700745
Inground Enclosure, Outer Box for 305 mm (1 ft) luminaire	120-000190-01	912400133685
Inground Enclosure, Inner Box for 305 mm (1 ft) luminaire	120-000190-00	912400133684
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



© 2023 Signify Holding. All rights reserved. Specifications are subject to change without notice. No representation or warranty as to the accuracy or completeness of the information included herein is given and any liability for any action in reliance thereon is disclaimed.