# ColorGraze MX4 Powercore

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RGBW, 60° x 30° 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  $9^{\circ}$  x  $9^{\circ}$ ,  $10^{\circ}$  x  $60^{\circ}$ ,  $15^{\circ}$  x  $30^{\circ}$  x  $60^{\circ}$ , and  $60^{\circ}$  x  $30^{\circ}$  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**

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Beam Angle	60° x 30°
Lumens <sup>†</sup>	634
Efficacy (lm/W) §§	34.8
LED Channels	Red/Green/Blue/4000 K

#### **Electrical**

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Input Voltage	
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 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**

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Trirestiolas retriperature reported calculated	Threshold§	Temperature	Reported ¶¶	Calculated ¶¶
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#### **Physical**

Dimensions	68 x 305 x 72 mm (2.7 x 12 x 2.85 in)
(Height x Width x 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

Mechanical Impact

Complies with ANSI C136.31, 3G

Corrosion Resistance

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

umidity 0 to 95%, non-condensing

IK10

#### 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/cviis2p8qq.					

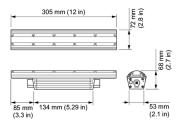
<sup>† 305</sup> mm (1 ft) lumen output measurements comply with IES LM-79-08 testing procedures. 610 mm (2 ft), 914 mm (3 ft), and 1219 mm (4 ft) measurements are estimated based on the 305 mm (1 ft) measurements.

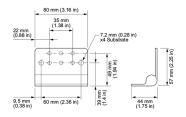
<sup>§</sup> Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

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

<sup>§§</sup> Efficacy measurements are estimated based on the 305 mm (1 ft) measurements.

### **Dimensions**









# Photometrics 305 mm (1 ft), 60° x 30° 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	60° x 30°
LED	RGBW
Lumens	634.0
Efficacy (lm/W)	34.8



#### Illuminance at Distance

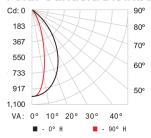


#### **Zonal Lumen**

	Z	one	Lumens	%	Fixtu	^e
0	-	60	620.5		97.8	%
60	-	90	13.7		2.2	%
0	-	90	634.2		100.0	%

For lux multiply fc by 10.7

#### **Polar Candela Distribution**



	0	25	45	70	90
0	1007	1007	1007	1007	1007
5	993	993	978	958	949
15	886	811	673	542	509
25	682	501	293	166	146
35	410	218	86	40	35
45	171	70	26	16	16
55	51	22	11	10	10
65	13	8	6	6	
75	4	2	2	2	3
85	2	1	1	0	(
90	1	1	0	0	(

#### Coefficients of Utilization - Zonal Cavity Method

					Effective					F1c	or	Cavi	ty I	Refle	ctar	ice:	- :	20%	
RCC %:		8	0			7	0			50			30			10		0	
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0	
RCR: 0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	
1	113	110	108	106	111	108	106	94	104	102	101	100	99	98	97	96	95	93	
2	108	103	98	95	105	101	97	87	98	94	92	95	92	90	92	90	88	86	
3	102	95	90	86	100	94	89	81	91	87	84	89	86	83	87	84	82	80	
4	97	89	83	79	95	88	83	76	86	81	78	84	80	77	82	79	76	74	
5	92	84	78	73	90	83	77	71	81	76		79	75	72	78	74	71	69	
6	87	78	72	68	86	78	72	66	76	71	67	75	70	67	73	70	67	65	
7	83	74	68	64	82	73	68	62	72	67	63	71	66	63	70	66	63	61	
8	79	70	64	60	78	69	64	59	68	63	59	67	63	59	66	62	59	58	
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54	
10	73	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52	

# Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
ColorGraze MX4 Powercore, RGBW, 60° x 30° Beam Angle, 305 mm (1 ft)	423-000001-04	910503704685
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
umper Cable for use with Graze, UL/cUL, End-to-End	108-000057-00	910503703139
umper Cable for use with Graze, UL/cUL, 305 mm (1 ft)	108-000057-03	910503704076
umper Cable for use with Graze, UL/cUL, 1.5 m (5 ft)	108-000057-06	910503704079
umper Cable for use with Graze, CE/PSE, End-to-End	108-000057-01	910503704074
umper Cable for use with Graze, CE/PSE, 305 mm (1 ft)	108-000057-04	910503704077
umper Cable for use with Graze, CE/PSE, 1.5 m (5 ft)	108-000057-07	910503704080
umper Cable for use with Graze, BIS, End-to-End	108-000057-18	912400137377
umper 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
nground Enclosure, Outer Box for 305 mm (1 ft) luminaire	120-000190-01	912400133685
nground 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)	106-00004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211

