

eW Graze QLX Powercore

Date:

Type:

Firm Name:

Project:

4000 K, 30° x 60° Beam Angle, 914 mm (3 ft)

Performance exterior linear grazing luminaire with single temperature white light

eW Graze QLX Powercore is perfect for applications calling for a balance of cost and performance. Graze is a high-performance, exterior linear luminaire designed to highlight architectural features ranging from surface textures and molding details to archways and windows. Graze Essential White luminaires offer a single channel of white light. Available in 2700 K, 3000 K, 4000 K. Multiple luminaire lengths, beam angles, output levels, and power consumption levels 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), four performance levels (MX, QLX, QLX 5W, and EC), and six standard 9° x 9°, 10° x 60°, 15° x 30°, 30° x 60°, 60° x 30°, and 90° x 90° (EC only) 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.
- 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.
- Smooth dimming capability—Patented DIMand technology offers smooth dimming capability with the DM-1000 0-10 V ELV Dimmer or selected reverse-phase ELV-type dimmers.
- 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/essentialwhite/ewgrazeqlxpowercore/

Specifications

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

Output

Color Temperature *	4000 K
Beam Angle	30° x 60°
Lumens †	2133
Efficacy (lm/W) §§	74.1
CRI	81.5
LED Channels	4000 K

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption	30 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)
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For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Control

Dimmer ‡

Compatible with selected commercially available reverse-phase ELV-type dimmers

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L ₇₀	25 °C	60,000	
	50 °C	60,000	
L ₅₀	25 °C	60,000	
	50 °C	60,000	

Physical

Dimensions (Height x Width x Depth)	68 x 915 x 72 mm (2.7 x 36 x 2.85 in)
Weight	3.2 kg (7.1 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

Not compliant to ANSI C136.31, 3G. Special orders are available to conform to the standard. Please contact your Color Kinetics Lighting Sales rep for custom configurations.

Mechanical Impact	IK10
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Corrosion Resistance

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

Humidity	0 to 95%, non-condensing
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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, PSE, C-Tick
Environment	Dry/Damp/Wet Location, IP66



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

† 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.

‡ Refer to www.colorkinetics.com/support/appnotes/ for more information.

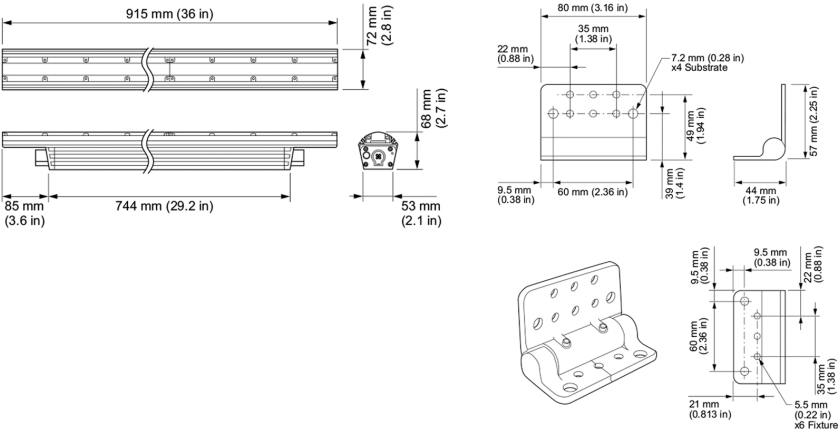
§ L_{xx} = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶ 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



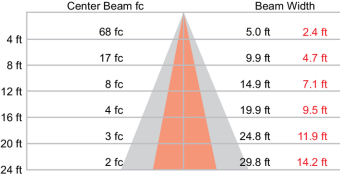
Photometrics 305 mm (1 ft), 30° x 60° beam angle

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	30° x 60°
LED	4000 K
Lumens	711.0
Efficacy (lm/W)	74.1



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	519.3	72.5%
0-40	634.7	88.6%
0-60	701.3	97.9%
60-90	14.1	2.0%
70-100	5.5	0.8%
90-120	0.8	0.1%
0-90	715.5	99.9%
90-180	0.9	0.1%
0-180	716.4	100.0%

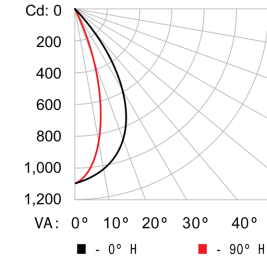
9.6 m (32 ft)
1 fc maximum distance
Vert. Spread: 63.6°
Horiz. Spread: 33.1°

For lux multiply fc by 10.7

Coefficients of Utilization – Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%									
RCC %:	80	70	50	30	10	0	50	30	10	0	0
RW %:	70	50	30	0	70	50	30	0	50	30	20
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11
1	1.13	1.11	1.08	1.06	1.11	1.08	1.06	0.94	1.04	1.02	1.01
2	1.08	1.03	0.99	0.95	1.05	1.01	0.97	0.87	0.98	0.95	0.92
3	1.02	0.96	0.91	0.87	1.00	0.94	0.90	0.82	0.92	0.88	0.85
4	0.97	0.90	0.84	0.80	0.95	0.88	0.83	0.76	0.86	0.82	0.79
5	0.93	0.84	0.78	0.74	0.91	0.83	0.78	0.72	0.81	0.77	0.73
6	0.88	0.79	0.73	0.69	0.87	0.78	0.73	0.67	0.77	0.72	0.68
7	0.84	0.75	0.69	0.65	0.83	0.74	0.69	0.63	0.73	0.68	0.64
8	0.80	0.71	0.65	0.61	0.79	0.70	0.65	0.60	0.69	0.64	0.60
9	0.77	0.67	0.61	0.57	0.75	0.67	0.61	0.57	0.66	0.61	0.57
10	0.73	0.64	0.58	0.54	0.72	0.63	0.58	0.54	0.63	0.58	0.54

Polar Candela Distribution



	0	25	45	70	90
0	1093	1093	1093	1093	1093
5	1064	1047	1034	1021	1023
15	956	847	720	604	582
25	732	523	329	203	182
35	416	218	96	49	48
45	161	63	27	20	22
55	42	19	13	13	15
65	12	9	8	8	9
75	4	3	3	3	4
85	1	1	1	1	3
90	0	0	0	1	2

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
eW Graze QLX Powercore, 4000 K, 30° x 60° Beam Angle, 914 mm (3 ft)	523-000081-40	910503703787
Accessories		
3 Conductor Leader Cable, 100 to 277 VAC, 15.2 m (50 ft), UL/cUL	108-000056-00	910503703138
3 Conductor Leader Cable, 100 to 277 VAC, 15.2 m (50 ft), Black, CE	108-000056-01	910503704069
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

