ColorGraze IntelliHue Powercore

Date:	
Туре:	
Firm Name:	
Project:	

100 to 277 VAC, 30° x 60°, 305 mm (1 ft)

Exterior linear grazing luminaire with intelligent white and color light

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 IntelliHue utilizes Color Kinetics IntelliHue technology to produce millions of saturated colors, pastels, and high quality white light, in the same precisely controllable luminaire. Multiple luminaire 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 four standard 10° x 60°, 15° x 30°, 30° x 60°, and 60° x 30° beam angles.
- Color-changing and high-quality white light from the same luminiare— IntelliHue is an advanced approach to color mixing that enables highquality intelligent color and white light from a single luminaire. Multiple channels of LED light sources combine to produce a full spectrum of precisely controllable light, including millions of saturated colors, pastels, and uniform white light with CRI of greater than 80 in the 2700 K to 4000 K range.
- 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.

- 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 iPlayer 3, iPlayer 4, 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/intellihue/colorgraze-powercore/



Specifications

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

Output

•	
Beam Angle	30° × 60°
Lumens All Channels Full On [†]	697
Lumens @ 2700 K	440
Lumens @ 4000 K	533
Efficacy (Im/W) All Channels Full On §§	38.9
Efficacy (lm/W) @ 2700 K	47.1
Efficacy (lm/W) @ 4000 K	45.1
CRI All Channels Full On	-
CRI @ 2700 K	86.8
CRI @ 4000 K	80.7
CRI R9 @ 4000 K	47.1
LED Channels	Red/Green/Blue/Mint White

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption	18.5 W
Power Factor	> 0.9 @ 100 to 240 VAC > 0.85 @ 277 VAC
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 Channels	4 channels per 1 ft section
For additional Control Channel information	, please refer to https://
colorkinetics.helpdocs.io/article/fv5rkpvclq.	

Control System

Works seamlessly with the Color Kinetics full range of controllers, including iPlayer 3, iPlayer 4, Antumbra iColor Keypad, and ColorDial Pro—as well as third-party controllers.

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

	Ambient		
Threshold§	Temperature	Reported ¶¶	Calculated ¶¶
L ₇₀	25 °C	70000	> 100,000
	50 °C	65000	> 100,000
L ₅₀	25 °C	75000	
	50 °C	70000	

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

Complies with ANSI C136.31, 3G	
Mechanical Impact	IK10

Corrosion Resistance

Humidity

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

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 A, CE, PSE, CQC, C-Tick
Environment	Dry/Damp/Wet Location, IP66
For additional Energy Efficiency Class Info	rmation, please refer to https://

colorkinetics.helpdocs.io/article/cviis2p8qq.



† 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.

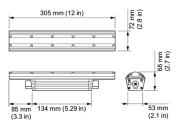
§ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

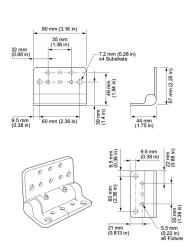
¶ Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

§§ 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.

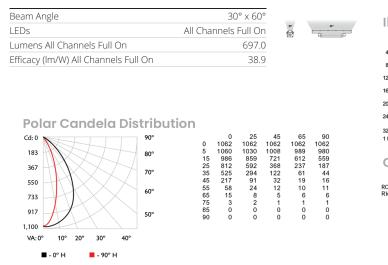
Dimensions





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



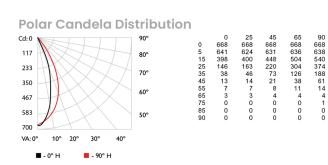
Illu	minance o	at Distan	се	Zona	Lum	en
4 ft	Center Beam fc 66.39 fc	2.3 ft	n Width 5.3 ft	Zone 0-30 0-40 0-60	Lumens 508.1 625.2 689.0	% Luminaire 72.9% 89.7% 98.9%
8 ft 12 ft 16 ft	16.60 fc 7.38 fc 4.15 fc	4.6 ft 6.9 ft 9.2 ft	10.6 ft 15.8 ft 21.1 ft	60-90 70-100 90-120 0-90	8.0 1.3 0.0 697.0	1.1% 0.2% 0.0% 100.0%
20 ft	2.66 fc 1.84 fc	11.4 ft 13.7 ft	26.4 ft 31.7 ft	90-180 0-180	0.0 697.0	0.0% 100.0%
32.6 ft (1 1 fc maxi	0 m) mum distance	Uert. Spre	ead: 66.8° read: 31.9°	For lux m	ultiply fc b	ov 10.7

Coefficients of Utilization - Zonal Cavity Method

										Eff	ecti	ve	Floor	Car	vity	Refle	ctar	nce:	20%	
СС	%:		8	30				70			50			30			10		0	
W	%	:70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0	
R	CR																			
	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	
		1.14	1.11	1.08	1.06	1.11	1.09	1.06	0.94	1.05	1.03	1.01	1.01	1.00	0.98	0.97	0.96 (0.95	0.94	
	2	1.08	1.03	0.99	0.96	1.06	1.01	0.98	0.88	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91 (0.89	0.87	
	3	1.03	0.96	0.91	0.88	1.01	0.95	0.90	0.82	0.92	0.89	0.85	0.90	0.87	0.84	0.88	0.85 0	0.83	0.81	
		0.98	0.90	0.85	0.81	0.96	0.89	0.84	0.77	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.76	
	5	0.93	0.85	0.79	0.75	0.91	0.84	0.78	0.72	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.72	0.71	
	6	0.88	0.80	0.74	0.70	0.87	0.79	0.73	0.68	0.77	0.73	0.69	0.76	0.72	0.68	0.75	0.71 (0.68	0.67	
	7	0.84	0.75	0.69	0.65	0.83	0.75	0.69	0.64	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67 0	0.64	0.63	
	8	0.80	0.71	0.65	0.61	0.79	0.71	0.65	0.60	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.63	0.60	0.59	
	9	0.77	0.67	0.62	0.58	0.76	0.67	0.61	0.57	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.56	
1	0	0.73	0.64	0.58	0.55	0.72	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.53	

30° x 60° beam angle, 305 mm (1 ft), 2700 K

Beam Angle	30° × 60°		
LEDs at	2700 K	ŝ	
Lumens @ 2700 K	440		
Efficacy (lm/W) @ 2700 K	47.1		



mu	minance	at Distar	ice	Zona	l Lum	ien
4 ft 8 ft 12 ft 16 ft	Center Beam fc 41.72 fc 10.43 fc 4.64 fc 2.61 fc 1.67 fc		m Width 2.4 ft 4.8 ft 7.2 ft 9.6 ft 12 ft	Zone 0-30 0-40 0-60 60-90 70-100 90-120 0-90 90-180 0-180	Lumens 321.5 392.2 428.4 4.7 0.8 0.0 433.1 0.0 433.1	% Luminaire 74.2% 90.5% 98.9% 1.1% 0.2% 0.0% 100.0% 100.0% 100.0%
20 ft 24 ft 25.8 ft (7. 1 fc maxi	1.16 fc	27.8 ft	14.3 ft read: 33.3° pread: 60.1°	0-180	433.1	100.0%

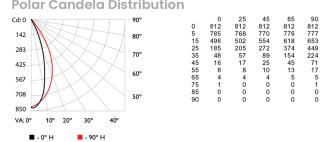
Coefficients of Utilization - Zonal Cavity Method

			Effective	Floor Cavity	Reflectance:	20%
RCC %:	80	70	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 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 1.14	1.11 1.08 1.06	1.11 1.09 1.07 0.94	1.05 1.03 1.01	1.01 1.00 0.98	0.98 0.96 0.95	0.94
2 1.08	1.03 0.99 0.96	1.06 1.02 0.98 0.88	0.98 0.95 0.93	0.95 0.93 0.91	0.93 0.91 0.89	0.87
3 1.03	0.97 0.92 0.88	1.01 0.95 0.91 0.82	0.93 0.89 0.86	0.90 0.87 0.84	0.88 0.85 0.83	0.82
4 0.98	0.91 0.85 0.81	0.96 0.89 0.84 0.77	0.87 0.83 0.80	0.85 0.82 0.79	0.83 0.80 0.78	0.76
5 0.93	0.85 0.79 0.75	0.92 0.84 0.79 0.73	0.82 0.78 0.74	0.81 0.77 0.74	0.79 0.76 0.73	0.71
6 0.89	0.80 0.74 0.70	0.87 0.79 0.74 0.68	0.78 0.73 0.69	0.76 0.72 0.69	0.75 0.71 0.69	0.67
7 0.85	0.76 0.70 0.66	0.83 0.75 0.70 0.64	0.74 0.69 0.65	0.73 0.68 0.65	0.71 0.68 0.65	0.63
8 0.81	0.72 0.66 0.62	0.80 0.71 0.66 0.61	0.70 0.65 0.62	0.69 0.65 0.61	0.68 0.64 0.61	0.60
9 0.77	0.68 0.62 0.58	0.76 0.67 0.62 0.58	0.67 0.62 0.58			0.56
10 0.74	0.65 0.59 0.55	0.73 0.64 0.59 0.55	0.63 0.58 0.55	0.63 0.58 0.55	0.62 0.58 0.55	0.54

Photometrics 30° x 60° beam angle, 305 mm (1 ft), 4000 K

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°	67	x.	Illu	minance
LEDs at	4000 K	ଟି			Center Beam fc
Lumens @ 4000 K	533			4 ft —	50.74 fc 12.69 fc
Efficacy (lm/W) @ 4000 K	45.1			8 ft	5.64 fc
				16 ft —	3.17 fc
				20 ft	2.03 fc
Polar Candola Distributio	0			24 ft	1.41 fc



	Center Beam fc		Beam	Width	Zone	Lumens	% Luminaire
4 ft	50.74 fc	Λ	4.6 ft	2.4 ft	0-30 0-40	391.6 477.9	74.2% 90.5%
Bft	12.69 fc		9.2 ft	4.8 ft	0-60 60-90	522.2 5.8	98.9% 1.1%
ft	5.64 fc		13.9 ft	7.2 ft	70-100	1.0	0.2%
ft	3.17 fc		18.5 ft	9.6 ft	90-120 0-90	0.0 528.0	0.0% 100.0%
ft	2.03 fc		23.1 ft	12 ft	90-180 0-180	0.0 528.0	0.0% 100.0%
ft	1.41 fc		27.7 ft	14.5 ft	0=180	528.0	100.0%
5 ft (9 n	n) num distance		Vert. Spre		For lux n	nultiply fc b	by 10.7
coe	fficients	of L	Jtilizat	ion	Zonal Cavit	ty Met	hod
			Effect	ive Floo	avity Reflectance: 20%		

RCC %	s:	8	30			- 7	70			50			30			10	0
RW %	5:70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30 20	0
RCR	ł:																
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	1.14	1.11	1.08	1.06	1.11	1.09	1.07	0.94	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.96 0.95	0.94
2	1.08	1.03	0.99	0.96	1.06	1.02	0.98	0.88	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91 0.89	0.87
3	1.03	0.97	0.92	0.88	1.01	0.95	0.91	0.82	0.93	0.89	0.86	0.90	0.87	0.84	0.88	0.85 0.83	0.82
4	0.98	0.90	0.85	0.81	0.96	0.89	0.84	0.77	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80 0.78	0.76
5	0.93	0.85	0.79	0.75	0.92	0.84	0.79	0.73	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76 0.73	0.71
6	0.89	0.80	0.74	0.70	0.87	0.79	0.74	0.68	0.78	0.73	0.69	0.76	0.72	0.69	0.75	0.71 0.69	0.67
7	0.85	0.76	0.70	0.66	0.83	0.75	0.69	0.64	0.74	0.69	0.65	0.73	0.68	0.65	0.71	0.68 0.65	0.63
8	0.81	0.72	0.66	0.62	0.80	0.71	0.66	0.61	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64 0.61	0.60
9	0.77	0.68	0.62	0.58	0.76	0.67	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61 0.58	0.56
10	0.74	0.65	0.59	0.55	0.73	0.64	0.59	0.55	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58 0.55	0.54

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	ltem 12NC
ColorGraze IntelliHue Powercore, 100 to 277 VAC, 30° x 60°, 305 mm (1 ft)	423-000016-03	912400135878
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
lumper Cable for use with Graze, CE/PSE, 1.5 m (5 ft)	108-000057-07	910503704080
lumper 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)	120-00081-00	910503700745
Inground Enclosure, Outer Box for 305 mm (1 ft) luminaire	120-000190-01	912400133685
Inground Enclosure, Inner Box for 305 mm (1 ft) Iuminaire	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



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