

Graze Compact Powercore

Date: _____
Type: _____
Firm Name: _____
Project: _____

IntelliHue, 100 to 277 VAC, High Power, 10° x 60°, 1219 mm (4 ft)

Exterior compact linear grazing luminaire with intelligent white and color light

Graze Compact is a high-performance, exterior linear luminaire designed to highlight architectural features like molding details, archways and windows up to two stories high. Graze Compact 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. The brand new low-profile housing, connectorized cabling, a universal power input range, and direct line voltage make Graze Compact luminaires easy to install and operate.



- Tailor light output to specific applications—Available in two standard lengths (1 ft and 4 ft), and four standard 10° x 60°, 30° x 60°, 60° x 60°, and 100° x 100° beam angles.
- Ultra compact form factor—Graze Compact's ultra-low profile is half the size of Graze, allowing it to fit discretely into almost any layout, from simple to elaborate.
- Innovative optical design features fully mixed light directly out of the luminaire. This allows for smaller setbacks than many other luminaires.
- Color-changing and high-quality white light from the same luminaire—IntelliHue is an advanced approach to color mixing that enables high-quality 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.
- Improve 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 Compact provides years of reliable use under rugged conditions. Graze Compact raises reliability even further with more protection from corrosion by meeting ASTM B117 standard and ANSI C136.31-2010 standard with a 3G vibration rating.
- Works seamlessly with the Color Kinetics full range of controllers, including Light 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/intellihue/graze-compact-powercore

Specifications

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

Output

Beam Angle	10° x 60°
Lumens 2700 K†	2,037
Lumens 3000 K	2,057
Lumens 3500 K	2,072
Lumens 4000 K	2,024
Lumens 5000 K	1981
Lumens 6500 K	1922
Lumens Red-Orange	902
Lumens Green	1300
Lumens Blue	497
Lumens Mint White	1679
Efficacy (lm/W) ^{§§}	64
CRI @ 3500 K	94
CRI R9 @ 3500 K	49

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption	34 W
(Maximum at full output, steady state)	
For Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection .	

Control

Interface	Data Enabler Pro (DMX or Ethernet)
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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
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Lumen Maintenance

Threshold [§]	Ambient Temperature	Reported [¶]	Calculated [¶]
L ₉₀	25 °C	> 72,000	> 100,000
	50 °C	> 72,000	> 100,000
L ₈₀	25 °C	> 72,000	> 100,000
	50 °C	> 72,000	> 100,000
L ₇₀	25 °C	> 72,000	> 100,000
	50 °C	> 72,000	> 100,000
L ₅₀	25 °C	> 72,000	> 100,000
	50 °C	> 72,000	> 100,000

† 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.

¶ 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.

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

Physical

Dimensions	45.05 x 1220.65 x 42.2 mm (1.77 x 48.06 x 1.66 in)
(Height x Width x Depth)	
Weight	2 kg (4.41 lb)
Housing Material	Extruded anodized aluminium
Lens	Glass
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	IK07
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Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing
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Luminaire Run Lengths

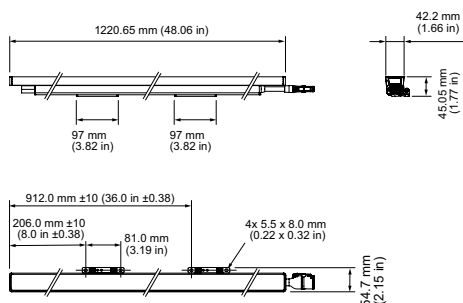
To calculate luminaire run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/

Certification and Safety

Approbation	UL/cUL, FCC Class A, PSE, CE, CQC, RCM, EAC, BIS, UA
Environment	Dry/Damp/Wet Location, IP66



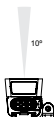
Dimensions



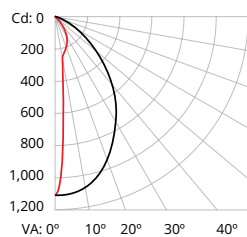
Photometrics, High Power, 3500 K, 10° x 60° beam angle, 305 mm (1 ft)

Photometric data is based on full hemisphere testing to IES standards.

Beam Angle	10° x 60°
LED	All Channels On
Lumens	518
Efficacy (lm/W)	64



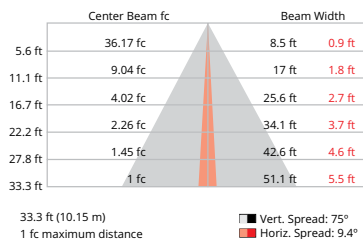
Polar Candela Distribution



	0	25	45	70	90
0	1114	1114	1114	1114	1114
5	1098	906	679	527	499
15	1018	366	256	234	231
25	856	222	195	175	169
35	651	161	131	95	83
45	419	109	70	35	27
55	220	61	31	16	14
65	89	26	13	8	6
75	24	8	5	3	2
85	2	1	0	0	0
90	0	0	0	0	0

■ - 0° H ■ - 90° H

Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	285.7	55.10%
0-40	384.8	74.30%
0-60	491.4	94.80%
60-90	26.7	5.10%
70-100	7.5	1.40%
90-120	0	0%
0-90	518.1	100%
90-180	0	0%
0-180	518.1	100%

For lux multiply fc by 10.7

Coefficients of Utilization – Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																							
RCR %:		80				70				50				30				10				0			
RCR %:	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	0.91	0.91	0.91	0.91	
1	1.12	1.09	1.06	1.04	1.11	1.07	1.04	1.02	1.03	1.01	0.99	0.99	0.97	0.97	0.96	0.96	0.94	0.94	0.94	0.94	0.88	0.88	0.88	0.88	
2	1.05	1.01	0.95	0.91	1.03	0.98	0.94	0.83	0.95	0.91	0.88	0.88	0.86	0.85	0.84	0.84	0.82	0.81	0.81	0.81	0.78	0.78	0.78	0.78	
3	0.99	0.91	0.86	0.81	0.97	0.91	0.85	0.76	0.87	0.83	0.79	0.85	0.81	0.78	0.78	0.77	0.76	0.75	0.75	0.75	0.73	0.73	0.73	0.73	
4	0.93	0.84	0.78	0.73	0.91	0.83	0.77	0.69	0.81	0.76	0.71	0.87	0.81	0.74	0.71	0.77	0.73	0.72	0.72	0.72	0.70	0.70	0.70	0.70	
5	0.88	0.77	0.71	0.66	0.87	0.77	0.71	0.64	0.75	0.69	0.65	0.83	0.78	0.68	0.65	0.72	0.67	0.64	0.64	0.64	0.62	0.62	0.62	0.62	
6	0.83	0.73	0.66	0.61	0.81	0.71	0.64	0.57	0.73	0.64	0.48	0.82	0.73	0.66	0.62	0.69	0.59	0.54	0.54	0.54	0.52	0.52	0.52	0.52	
7	0.78	0.68	0.61	0.56	0.76	0.67	0.6	0.55	0.65	0.6	0.55	0.64	0.59	0.57	0.63	0.58	0.55	0.55	0.55	0.55	0.53	0.53	0.53	0.53	
8	0.74	0.63	0.57	0.52	0.73	0.63	0.56	0.51	0.61	0.56	0.52	0.6	0.55	0.51	0.59	0.55	0.51	0.51	0.51	0.51	0.5	0.5	0.5	0.5	
9	0.7	0.6	0.54	0.49	0.69	0.59	0.53	0.48	0.59	0.54	0.49	0.58	0.53	0.5	0.56	0.52	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	
10	0.67	0.55	0.5	0.45	0.66	0.56	0.49	0.45	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
Graze Compact Powercore IntelliHue, 100 to 277 VAC, High Power, 10° x 60°, 1219 mm (4 ft)	423-000020-28	912400136694
Accessories		
Graze Compact Powercore Jumper Cable, 1 ft, CE/CQC	108-000073-01	912400136931
Graze Compact Powercore Jumper Cable, 5 ft, CE/CQC	108-000073-03	912400136933
Graze Compact Powercore Jumper Cable, 10 ft, CE/CQC	108-000073-05	912400136935
Graze Compact Powercore Jumper Cable, 20 ft, CE/CQC	108-000073-07	912400136937
Graze Compact Powercore Jumper Cable, 30 ft, CE/CQC	108-000073-09	912400136939
Graze Compact Powercore Jumper Cable, 1 ft, UL	108-000073-00	912400136930
Graze Compact Powercore Jumper Cable, 5 ft, UL	108-000073-02	912400136932
Graze Compact Powercore Jumper Cable, 10 ft, UL	108-000073-04	912400136934
Graze Compact Powercore Jumper Cable, 20 ft, UL	108-000073-06	912400136936
Graze Compact Powercore Jumper Cable, 30 ft, UL	108-000073-08	912400136938
Graze Compact Powercore Leader Cable, 10 ft, CE/CQC	108-000074-01	912400136941
Graze Compact Powercore Leader Cable, 50 ft, CE/CQC	108-000074-03	912400136943
Graze Compact Powercore Leader Cable, 10 ft, UL	108-000074-00	912400136940
Graze Compact Powercore Leader Cable, 50 ft, UL	108-000074-02	912400136942
Power/Data 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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Color Kinetics
www.colorkinetics.com/global/products/intellihue/graze-compact-powercore