

PureStyle Intelligent Color Powercore, RGBA

Date: _____

Type: _____

Firm Name: _____

Project: _____

100° x 100°, 305 mm (12 in), Wide Beam Angle

Premium interior concealed linear luminaire with intelligent RGBA light

Innovative PureStyle Powercore luminaires bring lighting professionals high output in a compact, easily concealed luminaire. PureStyle delivers exceptionally high-quality light for a wide range of interior applications from cove to wall-washing to backlighting and beyond. Here are just some of the powerful advantages that PureStyle brings to lighting professionals and their clients.



- Unbeatable Performance—Major innovations, including a unique optical cluster, enable PureStyle to deliver up to 800 lumens – all with superior beam quality that delivers bright, smooth light.
- Innovative Design — With its compact size and an extremely short mixing distance, PureStyle can excel in areas where traditional linear luminaires are impractical. It's available in 305 mm (1 ft) and 1219 mm (4 ft) aluminium housings, as well as a range of beam angles – including wide (100° x 100°), medium (30° x 60°), and narrow (10° x 60°). Interlocking connectors ensure end-to-end installation without visible light scalloping between luminaires – just pure, seamless light.
- Exceptional Light - All PureStyle luminaires deliver exceptional light. For applications requiring an emphasis on the orange/gold/red area of the color spectrum, we offer PureStyle iColor Powercore, RGBA.
- Superior Color Consistency — Optibin, our proprietary binning optimization process, guarantees uniformity and consistency of hue across LEDs, luminaires, and manufacturing runs.
- Industry-Leading Controls — PureStyle luminaires work seamlessly with the complete Color Kinetics line of controllers, including iPlayer 3, Light System Manager, and ColorDial Pro – as well as third-party controllers.
- Higher Efficiency, Lower Cost — All PureStyle luminaires integrate Powercore technology, which controls power output to luminaires directly from line voltage – rapidly, efficiently, and accurately. The Color Kinetics Data Enabler Pro merges line voltage with control, and delivers them to the luminaire over a single standard cable – simplifying installation dramatically and lowering total system cost.
- Easy Installation — PureStyle luminaires accept power input of 100 to 277 VAC for consistent installation anywhere in the world. Powercore allows long runs and eliminates the need for special wiring and external power supplies. For example, special connectors enable PureStyle luminaires to be connected directly (using jumper cables) with leader cables or with the terminator.

For detailed product information, please refer to the PureStyle Product Guide at www.colorkinetics.com/global/products/rgb/purestyle/

Specifications

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

Output

Beam Angle	100° x 100°
Lumens All Channels Full On †	528
Efficacy (lm/W) All Channels Full On	41

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	13 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)
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Control System

Color Kinetics full range of controllers, including Light System Manager, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L ₉₀	25 °C	11,300	11,300
	50 °C	11,300	11,300
L ₈₀	25 °C	35,700	35,700
	50 °C		35,700
L ₇₀	25 °C	> 54,000	63,300
	50 °C	> 54,000	63,300
L ₅₀	25 °C	> 54,000	> 100,000
	50 °C	> 54,000	> 100,000

† Lumen measurement complies with IES LM-79-08 testing procedures.

§ L_x = 50% lumen maintenance (when light output drops below 50% 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.

¶¶ 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.

Physical

Dimensions (Height x Width x Depth)	50 x 298.8 x 40 mm (1.97 x 11.75 x 1.57 in)
Weight	0.5 kg (1.1 lb)
Housing Material	Extruded anodized aluminium, white powder-coated finish
Lens	Polycarbonate
Luminaire Connections	Integral male/female connectors

Temperature Ranges

-20 to 50 °C (-4 to 122 °F) Operating
-20 to 50 °C (-4 to 122 °F) Startup
-40 to 80 °C (-40 to 176 °F) Storage

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/

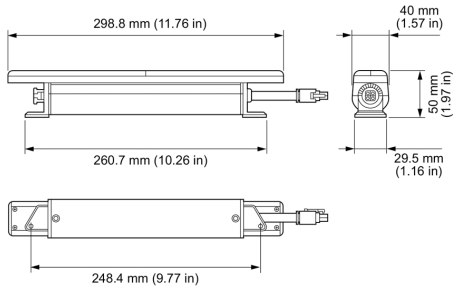
Certification and Safety

Approbation	UL/cUL, FCC Class B, CE, PSE, CQC, RCM
Environment	Dry/Damp Location, IP20

For additional Energy Efficiency Class Information, please refer to <https://colorkinetics.helpdocs.io/article/cviis2p8qq>.



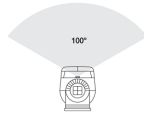
Dimensions



Photometrics 100° x 100°, 305 mm (12 in)

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	100° x 100°
LED	All channels full on
Lumens All Channels Full On	528.0
Efficacy (lm/W) All Channels Full On	41



Illuminance at Distance

	Center Beam fc	Beam Width	
2 ft	52 fc	4.9 ft	4.7 ft
4 ft	13 fc	9.8 ft	9.4 ft
6 ft	6 fc	14.7 ft	14.1 ft
8 ft	3 fc	19.5 ft	18.8 ft
10 ft	2 fc	24.4 ft	23.6 ft
12 ft	1 fc	29.3 ft	28.3 ft

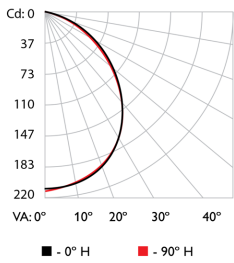
14.5 ft (4.4 m) 1 fc maximum distance
 Vert. Spread: 101.4°
 Horiz. Spread: 99.3°

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	162.3	30.1%
0-40	262.8	48.8%
0-60	438.1	81.4%
0-90	526.1	97.7%
60-90	88.0	16.4%
70-100	39.3	7.3%
90-120	7.9	1.5%
90-180	12.1	2.3%
0-180	538.2	100.0%

For lux multiply fc by 10.7

Polar Candela Distribution



VA: 0°	10°	20°	30°	40°
0	0	25	45	70
5	209	209	209	209
15	208	208	208	207
25	201	202	202	200
35	186	187	187	187
45	160	160	162	158
55	122	124	123	123
65	85	86	85	84
75	50	51	50	48
85	25	25	23	21
90	9	8	6	4
	5	3	1	0

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80	70	50	30	10	0												
RW %:	70	50	30	0	50	30	20	50	30	20	0							
0	1.19	1.19	1.19	1.19	1.15	1.15	1.15	1.10	1.10	1.05	1.05	1.00	1.00	1.00	0.98			
1	1.09	1.04	1.00	0.97	1.06	1.02	0.98	0.84	0.97	0.94	0.92	0.83	0.91	0.88	0.89	0.87	0.85	0.83
2	1.00	0.92	0.85	0.80	0.97	0.90	0.84	0.72	0.86	0.81	0.77	0.82	0.78	0.75	0.79	0.76	0.73	0.70
3	0.91	0.81	0.74	0.67	0.89	0.80	0.72	0.62	0.76	0.70	0.65	0.73	0.68	0.64	0.70	0.66	0.62	0.60
4	0.84	0.72	0.64	0.58	0.81	0.71	0.63	0.54	0.68	0.61	0.56	0.66	0.60	0.55	0.63	0.58	0.54	0.52
5	0.77	0.65	0.56	0.50	0.75	0.64	0.56	0.47	0.61	0.54	0.49	0.59	0.53	0.48	0.57	0.52	0.47	0.45
6	0.72	0.59	0.50	0.44	0.70	0.58	0.50	0.42	0.56	0.48	0.43	0.54	0.47	0.43	0.52	0.46	0.42	0.40
7	0.66	0.53	0.45	0.39	0.65	0.52	0.44	0.37	0.51	0.44	0.38	0.49	0.43	0.38	0.48	0.42	0.37	0.36
8	0.62	0.49	0.41	0.35	0.60	0.48	0.40	0.34	0.47	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.32
9	0.58	0.45	0.37	0.32	0.56	0.44	0.37	0.30	0.43	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.31	0.29
10	0.54	0.41	0.34	0.29	0.53	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.28	0.26

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
PureStyle Intelligent Color Powercore, RGBA, 100° x 100°, 305 mm (12 in), Wide Beam Angle	123-000026-00	912400133454
Accessories		
Leader Cable, UL, 3 m (10 ft)	108-000065-00	912400133637
Leader Cable, CE/CCC, 3 m (10 ft)	108-000065-01	912400133638
Jumper Cable, UL, 305 mm (1 ft)	108-000066-00	912400133639
Jumper Cable, CE/CCC, 305 mm (1 ft)	108-000066-01	912400133640
Mounting Track, White	120-000194-00	912400133643
Wiring Compartment, UL	120-000191-00	912400133644
Louver, 305 mm (1 ft)	120-000192-02	912400133647
End Of Run Diffusers, Bag of 10	120-000196-00	912400134527
PureStyle & PureStyle Compact Masking Plate, 305 mm (1 ft)	120-000213-01	912400136912
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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Color Kinetics
www.colorkinetics.com/global/products/rgb/purestyle/