ArchiPoint Powercore, RGB

Date:
Type:
Firm Name:
Project:

Clear Flat Lens with Conduit Mounting Base, 3/4 in NPT (U.S. trade size conduit)

Exterior daylight-visible point with intelligent RGB light

ArchiPoint Powercore, RGB is a daylight-visible, exterior-rated LED point of light ideally suited for a range of direct-view applications. These versatile low-profile luminaires display large-scale video and graphics in a host of settings, including architectural, retail, and entertainment installations. ArchiPoint Powercore, RGB offers high-intensity output with the efficiency and cost-effectiveness of Powercore technology in a rugged, aluminium housing.

- Daylight visible—Outputs up to 25,150 nits of intelligent color light in a weatherproof, low-profile housing, perfect for large-scale video, dynamic effects, and other direct-view applications. Easily visible in brightly lit urban environments and daylight—even in direct sunlight.
- Direct view or illumination—Supports large-scale video for architectural, media façade, and advertising applications for viewing day or night. Indirect illumination delivers high levels of intensity for beacon, paths and marker lighting.
- Multiple mounting base options—Conduit Mounting Base offers side and back openings for flexible connections in surface-mounted installations. Concealed Conduit Mounting Base hides all conduit and wiring behind the mounting surface for a clean look.
- Superior color consistency and accuracy—Optibin, an advanced binning algorithm, sets a new standard for the color consistency and uniformity of LED sources used in manufacturing.
- Flexible installation options—Low-profile luminaires allow for installation in spaces too tight for conventional spotlights. Multiple mounting base options offer flexibility in a wide range of installation types and situations.
- Integrates Powercore technology—Powercore delivers line voltage and data to luminaires over a single cable, dramatically simplifying installation and lowering total system cost. Color Kinetics Data Enabler Pro merges line voltage and control data and delivers them to the luminaire over a single cable, dramatically simplifying installation and lowering total system cost.
- Universal power input range—Accepts a universal power input range of 100 to 240 VAC for consistent installation anywhere in the world. Each Data Enabler Pro can support multiple luminaires for creating long runs of intricately changing color.
- Industry-leading controls—Works seamlessly with the complete Color Kinetics line of controllers, including Light System Manager and iPlayer 3, as well as third-party controllers.
- Outdoor rated—Fully sealed for maximum luminaire life and IP66-rated for outdoor applications.

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

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Specifications

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

Output

Viewing	125°
Lumens †	774
Luminance in Nits	25,150 cd/m²
Efficacy	27.4
LED Channels	Red/Green/Blue

Electrical

Input Voltage	100 to 240 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	25 W
Power Factor	0.93 @ 120 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.

Maximum Wiring Volume	22.0 cu in

Control

Interface	Data Enabler Pro (DMX or Ethernet)

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_{70}	25 °C	70,000	
	50 °C	40,000	
L_{50}	25 °C	100,000	
	50 °C	70,000	

Physical

Dimensions (Height x Width x Depth)	99 x 164 x 164 mm (3.9 x 6.4 x 6.4 in)
Weight	1.5 kg (3.3 lb) Flat Lens Luminaire 0.78 kg (1.7 lb) Conduit Mounting Base 0.98 kg (2.2 lb) Concealed Conduit Mounting Base
Housing Material	Die-cast aluminium, silver gray powder-coated finish
Lens	Clear UV-protected polycarbonate
Luminaire Connections	178 mm (7 in) flying leads

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

Complies with ASTM G85

Humidity	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
Environment	Dry/Damp/Wet Location, IP66

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

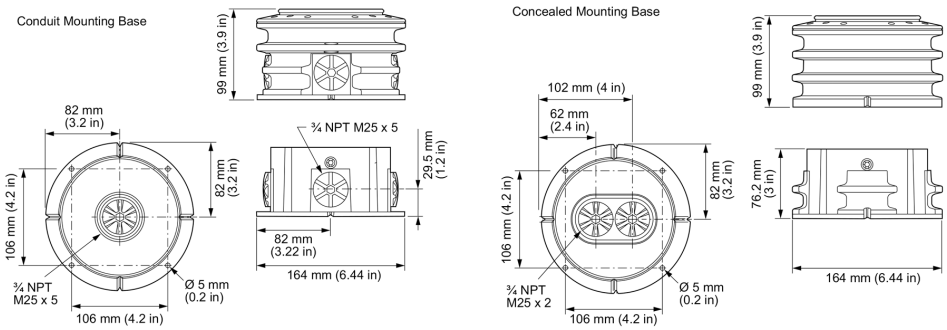
† Lumen output measurements comply with IES LM-79-08 testing procedures.

§ 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.

¶¶ 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

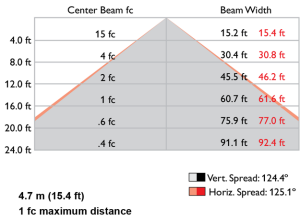


Photometrics Clear Flat Lens

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.

Viewing	125°
LED	RGB
Lumens	774.0
Efficacy	27.4

Illuminance at Distance



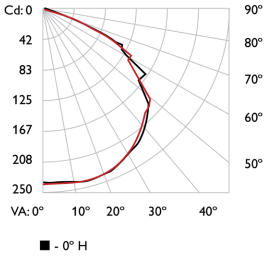
4.7 m (15.4 ft)
1 fc maximum distance

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	200	25.8
0- 40	338	43.6
0- 60	635	82.1
0- 90	774	100.0
90-180	0	0.0
0-180	774	100.0

For lux multiply fc by 10.7

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	237	237	237	237	237
5	237	237	238	238	238
15	243	242	242	243	241
25	236	235	235	236	235
35	222	220	221	221	219
45	200	199	198	199	197
55	162	163	166	170	159
65	115	129	121	111	109
75	30	22	21	27	24
85	2	1	1	2	2
90	0	0	0	0	0

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30	10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
ArchiPoint Powercore, RGB, Clear Flat Lens Associated Mounting Base must be purchased separately.	123-000022-01	910503702580
Associated Parts		
Conduit Mounting Base, 3/4 in NPT (U.S. trade size conduit)	123-000152-00	910503702574
Accessory		
Glare Shield	120-000153-00	910503702674
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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