ArchiPoint iColor Powercore

Date:
Type:
Firm Name:
Project:

Translucent Dome Lens with Concealed Conduit Mounting Base, 3/4 in NPT (U.S. trade size conduit)

Exterior daylight-visible point with intelligent RGB light

ArchiPoint iColor Powercore 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 iColor Powercore 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 Video System Manager Pro, 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	150°
Lumens †	501
Luminance in Nits	10,877 cd/m²
Efficacy	17.6
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/Ethernet)

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 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)	144 x 164 x 164 mm (5.7 x 6.4 x 6.4 in)
Weight	1.5 kg (3.3 lb) Dome 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	Translucent 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	
Environment	Dry/Damp/Wet Location, IP66

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



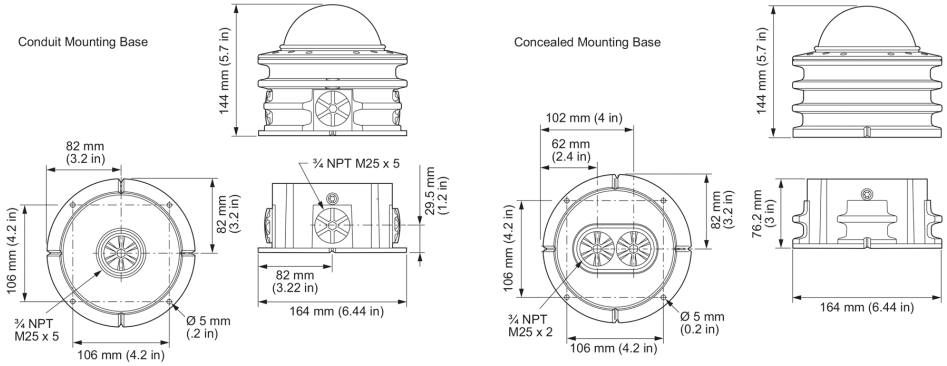
† Lumen output measurements comply with IES LM-79-08 testing procedures.

§ 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

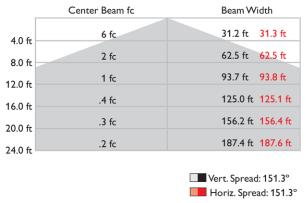


Photometrics Translucent Dome Lens

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	150°
LED	RGB
Lumens	501.0
Efficacy	17.6

Illuminance at Distance

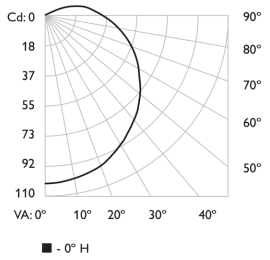


Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	82	16.3
0- 40	137	27.3
0- 60	263	52.4
0- 90	425	84.7
90-120	73	14.5
90-130	76	15.3
90-150	77	15.3
90-180	77	15.3
0-180	501	100.0

For lux multiply fc by 10.7

Polar Candela Distribution



	0.0	22.5	45.0	67.5	90.0
0	103	103	103	103	103
5	102	102	102	102	102
15	100	100	100	100	100
25	95	95	95	95	95
35	88	88	88	88	88
45	80	80	80	80	80
55	71	71	71	71	71
65	62	62	62	62	62
75	52	52	52	52	52
85	42	42	42	42	42
90	37	37	37	37	37

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	0
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	101	95	89	84	97	91	86	81	84	80	76	77	74	71	71	68	66	63
2	91	81	72	65	86	77	70	63	71	65	60	66	60	56	60	56	52	49
3	82	70	60	53	78	67	58	51	62	54	48	57	51	46	52	47	43	40
4	74	61	51	44	71	59	50	43	54	46	40	50	43	38	46	40	36	33
5	68	54	44	37	65	52	43	36	48	40	34	44	38	32	41	35	31	28
6	63	48	39	32	60	47	38	31	43	35	30	40	33	28	37	31	27	24
7	58	44	34	28	55	42	33	27	39	31	26	36	30	25	34	28	23	21
8	54	40	31	24	51	38	30	24	36	28	23	33	27	22	31	25	21	19
9	50	36	28	22	48	35	27	21	33	25	20	30	24	20	28	23	19	17
10	47	33	25	20	45	32	24	19	30	23	18	28	22	18	26	21	17	15

Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
ArchiPoint iColor Powercore, Translucent Dome Lens Associated Mounting Base must be purchased separately.	123-000022-00	910503702579
Associated Parts		
Concealed Conduit Mounting Base, 3/4 in NPT (U.S. trade size conduit)	123-000152-02	910503702576
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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07/01/2022