eW Reach Compact Powercore

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

2700 K, 5° x 17° Asymmetric Spread Lens, UL/CE

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Exterior long-throw compact floodlight with single temperature white light

eW Reach Compact Powercore high-performance LED luminaires are premium exterior long-throw dynamic high-quality white luminaires for lighting tall buildings, bridges, and iconic structures. eW Reach Compact Powercore outputs washes of white light in a warm 2700 K or a cool 4000 K color temperature. A full range of accessories allow for customizable beam angles for floodlighting, spotlighting, wall washing, and grazing, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminium housing.

- Multiple options for design flexibility—Luminaires are available in a warm 2700 K or a cool 4000 K. Custom configurations with custom channels of white or color LED sources are also available to support special applications.
- 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 resulting in color consistency within 2 SDCM.
- Digital Dimming—Smooth dimming down to 1% with optional Data Enabler Pro and digital control interface.
- Unparalleled light output—eW Reach Compact Powercore offers unprecedented output and punch for LED-based illumination of large-scale structures and objects.
- Expanded customization with a wide range of new accessory options. To complement the native 5° lens, six standard secondary spread lenses can customize the luminaire to produce 8°, 13°, 23°, 43°, 63°, and 5° x 17° (asymmetric) beam angles. The option to add or combine a louver, full glare shield, or half glare shield creates new aesthetic possibilities for designers and architects.
- 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.
- Simple luminaire positioning—Rugged, slim-profile mounting bracket allows simple positioning and luminaire rotation through a full 360°. Side locking bolts reliably secure luminaire with a standard wrench.
- Universal power input ranges of 100 to 240 VAC (CQC) and 100 to 277 (UL/CE).

For detailed product information, please refer to the Reach Product Guide at www.colorkinetics.com/global/products/essentialwhite/ewreachcompact/

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Specifications

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

Output

Color Temperature*	2700 K
Beam Angle	5° x 17°
Lumens†	6,065
Efficacy (lm/W)	48.1
CRI	80.1

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	125 W
Power Factor	0.99 (no spread lens, full unit, all channels full on) @ 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.

Control

Dimmer

On/Off; digital dimming by 4 connector cable & DE Pro

Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶¶	Calculated¶¶
L_{90}	25 °C	42,300	
	50 °C	42,300	
L_{80}	25 °C		100,000
	50 °C		100,000
L_{70}	25 °C		100,000
	50 °C		100,000

Physical

Dimensions (Height x Width x Depth)	350 x 753 x 211 mm (13.75 x 29.66 x 8.3 in)
Weight	23.4 kg (51.6 lb)
Effective Projected Area (EPA)	0.186 m²
Housing Material	Die-cast aluminium, black powder-coated finish
Lens	Tempered glass
Luminaire Connections	Integral male/female waterproof connectors

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 with standard yoke when used with 3 bolts.

Mechanical Impact	IK07

Corrosion Resistance

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

Humidity	0 to 95%, non-condensing

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
Environment	Dry/Damp/Wet Location, IP66

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* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

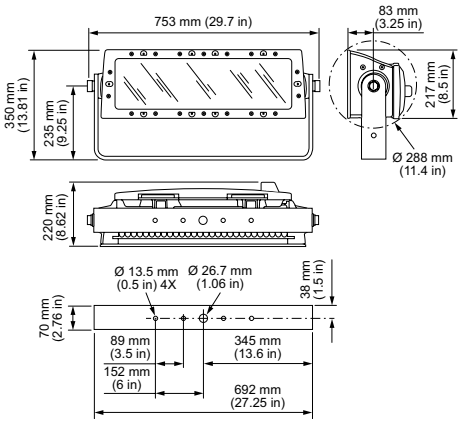
† Lumen measurement complies with IES LM-79-08 testing procedures.

§ 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.

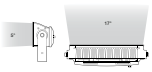
Dimensions



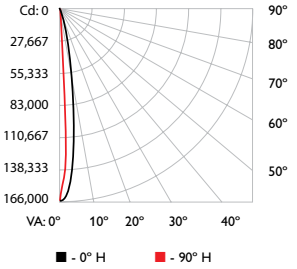
Photometrics 5° x 17° Asymmetric Spread Lens

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.

Beam Angle	5° x 17°
LED	2700 K
Lumens	6,065
Efficacy (lm/W)	49.6

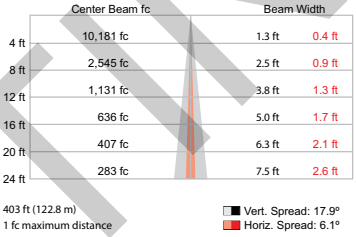


Polar Candela Distribution



	0	25	45	70	90
0	162894	162894	162894	162894	162894
5	134113	84959	53876	33724	29465
15	21557	1698	0	0	0
25	0	0	0	0	0
35	0	0	0	0	0
45	0	0	0	0	0
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Luminaire
0-30	6,064.9	100.0%
0-40	6,064.9	100.0%
0-60	6,064.9	100.0%
0-90	6,064.9	100.0%
60-90	0.0	0.0%
70-100	0.0	0.0%
90-120	0.0	0.0%
90-180	0.0	0.0%
0-180	6,064.9	100.0%

For lux multiply fc by 10.7

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	1.16	1.15	1.13	1.12	1.14	1.13	1.11	0.99	1.09	1.08	1.07	1.05	1.04	1.04	1.02	1.01	1.01	0.99
2	1.14	1.11	1.09	1.07	1.12	1.10	1.08	0.99	1.07	1.05	1.04	1.04	1.03	1.02	1.01	1.01	1.00	0.99
3	1.12	1.09	1.06	1.04	1.10	1.07	1.05	0.98	1.05	1.03	1.02	1.03	1.02	1.00	1.01	1.00	0.99	0.98
4	1.10	1.07	1.04	1.02	1.09	1.06	1.03	0.98	1.04	1.02	1.00	1.02	1.00	0.99	1.00	0.99	0.98	0.97
5	1.09	1.05	1.02	1.00	1.07	1.04	1.02	0.97	1.03	1.01	0.99	1.01	1.00	0.98	1.00	0.99	0.97	0.97
6	1.07	1.03	1.01	0.99	1.06	1.03	1.00	0.96	1.02	0.99	0.98	1.00	0.99	0.97	0.99	0.98	0.97	0.96
7	1.06	1.02	0.99	0.98	1.05	1.02	0.99	0.96	1.01	0.98	0.97	1.00	0.98	0.97	0.99	0.97	0.96	0.95
8	1.05	1.01	0.98	0.97	1.04	1.00	0.98	0.95	1.00	0.98	0.96	0.99	0.97	0.96	0.98	0.97	0.96	0.95
9	1.04	1.00	0.97	0.96	1.03	1.00	0.97	0.95	0.99	0.97	0.95	0.98	0.97	0.95	0.98	0.96	0.95	0.94
10	1.03	0.99	0.97	0.95	1.02	0.99	0.97	0.94	0.98	0.96	0.95	0.98	0.96	0.95	0.97	0.96	0.94	0.94

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Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
eW Reach Compact Powercore, 2700 K, UL/CE	523-000095-12	912400133469
Luminaire only. Values in this specification sheet represent both the luminaire and spread lens combined. Spread lens available below in Associated Part.		
Associated Part		
5° x 17° Spread lens with bezel	120-000068-16	912400133597
Trim bezel included.		
Accessories		
3 Conductor Leader Cable, UL/cUL, 3 m (10 ft)	108-000056-03	910503704071
3 Conductor Leader Cable, CE, 3 m (10 ft)	108-000056-04	910503704072
3 Conductor Leader Cable, UL/cUL, 15.2 m (50 ft)	108-000056-00	910503703138
3 Conductor Leader Cable, CE, 15.2 m (50 ft)	108-000056-01	910503704069
4 Conductor Leader Cable (required to digitally dim unit, w/DE Pro), UL/cUL, 3 m (10 ft)	108-000055-03	910503704066
4 Conductor Leader Cable (required to digitally dim unit, w/DE Pro), CE, 3 m (10 ft)	108-000055-04	910503704067
4 Conductor Leader Cable (required to digitally dim unit, w/DE Pro), UL/cUL, 15.2 m (50 ft)	108-000055-00	910503703137
4 Conductor Leader Cable (required to digitally dim unit, w/DE Pro), CE, 15.2 m (50 ft)	108-000055-01	910503704064
Louver	120-000187-02	912400133589
Half Glare Shield	120-000187-01	912400133588
Full Glare Shield	120-000187-00	912400133587
Trim Bezel	120-000187-03	912400134263
Power Supplies		
Data Enabler Pro (required to digitally dim unit), 3/4 in / 1/2 in NPT (US trade size conduit)	106-000004-00	910503701210
Data Enabler Pro (required to digitally dim unit), PG21/PG13 (metric size conduit)	106-000004-01	910503701211

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