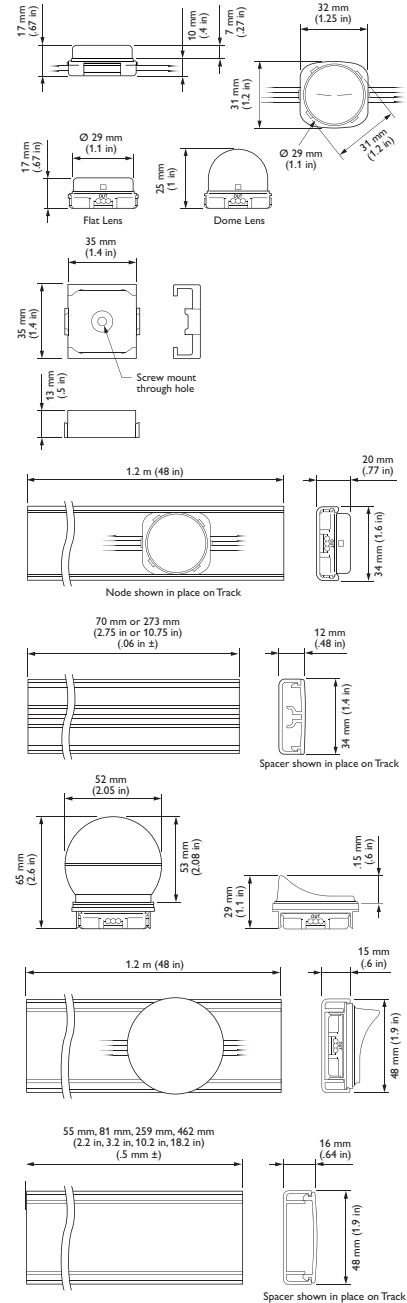# eW Flex Compact

Flexible strands of high-intensity LED nodes with solid white light

eW Flex Compact is a versatile strand of 50 individually controllable LED nodes. The flexible form factor allows dynamic points of white light to be installed across nearly any interior or exterior surface, including walls, ceilings, floors, three-dimensional sculptures, and set pieces. eW Flex Compact can also light tight alcove spaces and signage, and in certain cases, can even display video.

- Daylight visible — At full brightness, each node produces light output of up to 31.5 candela and 47679 nits at each node.

- Adaptable mounting — Strands can be mounted directly to a surface, like traditional string lights. Detachable leader cables in multiple lengths allow you to install strings at the appropriate distance from power / data supplies. Optional mounting tracks ensure straight linear runs, while snap-on spacers hide cabling and mounting hardware. Single node mounts can be positioned individually as anchor points for installations with uneven node spacing or complex geometries.

- Outdoor rated — Fully sealed for maximum fixture life and IP66-rated for outdoor applications.

- Supports cost-effective video displays — Flexible form factor, offering maximum lighting control at 50 W per strand, accommodates unique lighting installations, including two- and three-dimensional video displays. White nodes enable classic black and white video or reverse (shadow) video.

- Multiple lens options — Standard clear flat and translucent dome lenses. Optional translucent flat, clear dome, semi-frosted flat, and semi-frosted dome lenses are available. Marquee lenses snap onto flat-lens nodes to create the appearance of bulbs on a traditional theatre marquee.

- Standard and custom lengths and node spacing — eW Flex Compact strands are available with standard on-center node spacing of 102 mm (4 in) or 305 mm (12 in) along a three-wire, 18 AWG cable. For information about custom orders, see the eW Flex Compact Ordering Sheet at www.philipscolorkinetics.com/ls/essentialwhite/ewflexcompact/

Flat Lens   Dome Lens

Node shown in place on Track

Spacer shown in place on Track

Spacer shown in place on Track

For detailed product information, please refer to the eW Flex Compact Product Guide at www.philipscolorkinetics.com/ls/essentialwhite/ewflexcompact/

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

Item	Specification			Clear Flat Lens	Translucent Dome Lens
Output	Lumens Per Node*	2700 K		80.9	35.0
		4000 K		86.9	39.6
	Candela Per Node	2700 K		29.8	7.1
		4000 K		31.5	8.0
	Luminance	2700 K		45127 cd / m^2	10660 cd / m^2
		4000 K		47679 cd / m^2	12106 cd / m^2
	CRI	2700 K		82	85
		4000 K		84	86
	Viewing Angle	2700 K		110°	200°
		4000 K		110°	200°
	LED Channels			White	
Electrical	Input Voltage			24 VDC via sPDS-480ca, sPDS-60ca, and PDS-60ca	
	Power Consumption			1 W max. per node at full output, steady state	
Control	Interface			PDS-60ca 24V (Pre-programmed or DMX / Ethernet), sPDS-60ca 24V (DMX / Ethernet), sPDS-480ca 24V (Ethernet)	
	Control System			Philips full range of controllers, including Video System Manager Pro, Light System Manager, and iPlayer 3, or third-party controllers	
Physical	Node Dimensions *Height x Width x Depth*			31 x 32 x 17 mm (1.2 x 1.25 x .67 in)	31 x 32 x 25 mm (1.2 x 1.25 x 1 in)
	Weight			2.2 lbs (1 kg) 50-node strand, 4 in on-center node spacing	
	Housing			White or black polycarbonate	
	Lens			Clear or translucent plastic	
	Fixture Connections			Integrated watertight 3-pin connector	
	Temperature Ranges			-30° – 50° C (-22° – 122° F) Operating ≥ 0° C (≥ 32° F) Handling -20° – 50° C (-4° – 122° F) Startup -30° – 80° C (-22° – 176° F) Storage	
	Humidity			0 – 95%, non-condensing	
	Maximum Fixtures Per Power / Data Supply			PDS-60ca 24V: 1 strand sPDS-60ca 24V: 1 strand sPDS-480ca 24V: 8 strands	
Certification and Safety	Certification			UL / cUL, FCC Class A, CE	
	Environment			Dry / Damp / Wet Location, IP66	

Lumen Maintenance

Threshold*	Ambient Temperature	Reported†	Calculated†
L90	@ 25° C	50,600 hours	>100,000 hours
	@ 50° C	50,600 hours	>100,000 hours
L80	@ 25° C	50,600 hours	>100,000 hours
	@ 50° C	50,600 hours	>100,000 hours
L70	@ 25° C	50,600 hours	>100,000 hours
	@ 50° C	50,600 hours	>100,000 hours

* Lxx= xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B50, or the median value where 50% 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-80-80 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

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