

# eW Fuse Powercore

Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

**2700 K, 30° x 60° beam angle, 8 W/ft, 305 mm (1 ft)**

## Interior linear grazing luminaire with single temperature white light

With narrow and medium beams of intense white light, eW Fuse Powercore is an excellent choice for a full range of surface grazing and wall-washing applications. Its ultra-compact form factor permits installation in tight spaces too small to accommodate conventional grazing luminaires with similar light output. eW Fuse Powercore meets or exceeds the performance of comparable linear fluorescent grazing luminaires while lowering installation, energy, and maintenance costs. Luminaires offer environmentally-conscious buyers a green, energy-efficient grazing luminaire with industry-leading quality and quantity of light.



- Lower cost than comparable fluorescent grazing luminaires—With long useful source life and low-maintenance operation, eW Fuse Powercore represents a cost-effective alternative to traditional grazing luminaires.
- High-performance illumination and beam quality—eW Fuse Powercore is available in 305 mm (1 ft) and 1219 mm (4 ft) die-cast aluminium housings with a 10° x 60° or 30° x 60° beam angle. Interlocking connectors accommodate end-to-end placement without visible light scalloping between luminaires.
- Multiple levels of power consumption—12.5 W/ft luminaires offer high-intensity light output of over 550 lumens per foot. 8 W/ft luminaires are factory-set to a lower maximum power consumption level to support ASHRAE standards, LEED green building certification, and other power-limited projects.
- Multiple color temperatures—Available in 2700 K, 3000 K, 3500 K, and 4000 K color temperatures for applications calling for warm, neutral, or cool white light.
- Integrates patented Powercore technology—Powercore rapidly, efficiently, and accurately controls power directly from line voltage, eliminating the need for an external power supply. Contractor-friendly installation dramatically simplifies installation and lowers total system cost.
- Support for multiple voltages—Accepts power input of 100 to 277 VAC for consistent installation and operation from line voltage in a variety of locations.
- Digital Dimming—Smooth dimming down to 1% with optional Data Enabler Pro and digital control interface.
- Simple installation—Powercore integrated power management technology simplifies installation and allows long product runs. Easy-to-install 1219 mm (4 ft) mounting tracks allow quick project setup in linear applications.
- Easy mounting and positioning—With end-to-end locking power connectors that can make 180° turns, eW Fuse Powercore luminaires are easy to position in even the most challenging mounting circumstances. Luminaires rotate in 10° increments through 180° for precise aiming and color mixing. Optional mounting tracks support vertical and overhead positioning. 305 mm (1 ft) and 1.5 m (5 ft) jumper cables can add extra space between luminaires.

For detailed product information, please refer to the Fuse Product Guide at [www.colorkinetics.com/global/products/essentialwhite/ewfusepc/](http://www.colorkinetics.com/global/products/essentialwhite/ewfusepc/)

# Specifications

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

## Output

Color Temperature*	2700 K
Beam Angle	30° x 60°
Lumens†	443
Efficacy (lm/W)	57.3
CRI	82

## Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	8 W
Power Factor	0.99 @ 120 VAC
Surge Limits¶	0.5 kV maximum differential (L to N) 1 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](http://www.colorkinetics.com/KB/surge-protection).

## Control

### Dimmer

Compatible with selected commercially available reverse-phase ELV-type dimmers

## Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶¶	Calculated¶¶
L <sub>70</sub>	25 °C	65,000	
	50 °C	65,000	
L <sub>50</sub>	25 °C	65,000	
	50 °C	65,000	

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

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

‡ Refer to [www.colorkinetics.com/support/appnotes/](http://www.colorkinetics.com/support/appnotes/) for more information.

§ L<sub>xx</sub> = 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.

## Physical

Dimensions (Height x Width x Depth)	54 x 305 x 39 mm (2.12 x 12 x 1.56 in)
Weight	0.45 kg (0.98 lb)
Housing Material	Die-cast aluminium, white powder-coated finish
Lens	Polycarbonate
Luminaire Connections	Integral male/female 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

Humidity	0 to 95%, non-condensing
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## 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/](http://www.colorkinetics.com/support/install_tool/)

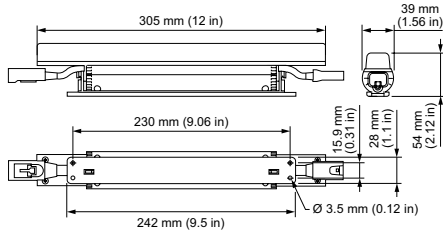
## Certification and Safety

Approbation	UL/cUL, FCC Class B, C-Tick, CCC
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Environment	Dry/Damp Location, IP20
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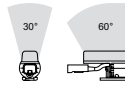
# Dimensions



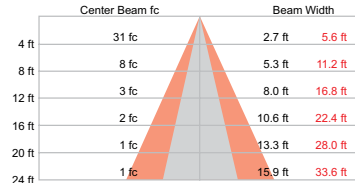
# Photometrics 8 w/ft, 2700 K, 305 mm (1 ft)

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](http://www.colorkinetics.com/global/support/ies).

Beam Angle	30° x 60°
LED	2700 K
Lumens	443
Efficacy (lm/W)	57.3



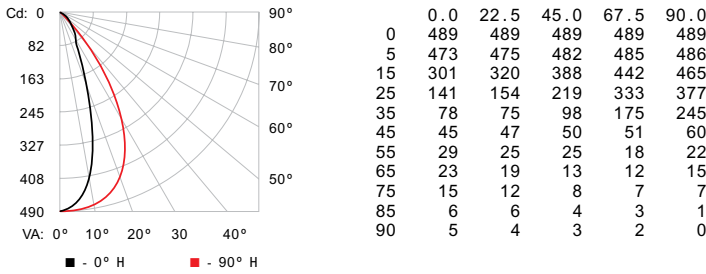
## Illuminance at Distance



## Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	262	59.1
0- 40	342	77.1
0- 60	404	91.2
0- 90	434	98.0
90-120	7	1.5
90-130	8	1.8
90-150	9	2.0
90-180	9	2.0
0-180	443	100.0

## Polar Candela Distribution



22.0 ft (6.7 m)  
1 fc maximum distance

Vert. Spread: 37.6°  
Horiz. Spread: 70.1°

For lux multiply fc by 10.7

## Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10			0
Rm	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0	
0	119119119119	116116116116	110110110	105105105	100100100	98										
1	112108105102	109106103101	1019997	979594	939291	89										
2	105999490	102979389	939087	908784	878482	80										
3	99918580	96898480	868278	848077	817875	73										
4	93847873	91837772	807571	787470	767269	67										
5	88787166	86777166	756965	736865	716764	62										
6	83736661	81726561	706460	686360	676259	57										
7	78686157	77676156	666056	645955	635855	53										
8	74645753	73635753	625652	615652	595551	50										
9	71605449	69595349	585349	575249	565248	47										
10	67575046	66565046	555046	544946	534945	44										

# Luminaire and Accessories

Use Item Number when ordering in North America

<b>Luminaire</b>	<b>Item Number</b>	<b>Item 12NC</b>
eW Fuse Powercore, 2700 K, 30° x 60° beam angle, 8 W/ft, 305 mm (1 ft)	523-000065-28	910503704165
<b>Accessories</b>		
Leader Cable with Terminator and Strain Relief, UL/cUL, 3 m (10 ft)	108-000047-00	910503700972
Leader Cable with Terminator and Strain Relief, CE/CCC, 3 m (10 ft)	108-000047-01	910503700973
Wiring Compartment with Terminator	120-000077-01	910503700994
Jumper Cable, UL/cUL, 305 mm (1 ft)	108-000048-00	910503700974
Jumper Cable, UL/cUL, 1.5 m (5 ft)	108-000048-01	910503700975
Jumper Cable, CE/CCC, 305 mm (1 ft)	108-000048-02	910503700976
Jumper Cable, CE/CCC, 1.5 m (5 ft)	108-000048-03	910503700977
Terminators, 10/Box	120-000099-00	910503701120
Mounting Track, White, Quantity 1, 1219 mm (4 ft)	120-000124-00	910503701787
DM-1000 0-10 V ELV Dimmer	109-000036-00	912400135916



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Color Kinetics  
[www.colorkinetics.com/global/products/essentialwhite/ewfusepc/](http://www.colorkinetics.com/global/products/essentialwhite/ewfusepc/)