# eW Fuse Powercore

Ultra-compact, high-performance LED grazing fixture

PHILIPS

# eW Fuse Powercore

## Ultra-compact, high-performance LED grazing fixture

With narrow and medium beams of intense white or solid blue 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 fixtures with similar light output. eW Fuse Powercore meets or exceeds the performance of comparable linear fluorescent grazing fixtures while lowering installation, energy, and maintenance costs. eW Fuse Powercore offers environmentally-conscious buyers a green, energy-efficient grazing fixture with industry-leading quality and quantity of light.

- Lower cost than comparable fluorescent grazing fixtures — With long useful life and low-maintenance operation, eW Fuse Powercore represents a cost-effective alternative to traditional grazing fixtures.
- High-performance illumination and beam quality — eW Fuse Powercore is available in a 1 ft (305 mm) die-cast aluminum housing with a narrow 10° x 60° or medium 30° x 60° beam angle. Superior beam quality delivers striation-free light as close as 6 in (152 mm) from fixture placement. Interlocking connectors accommodate end-to-end without visible light scalloping between fixtures.
- Multiple color temperature options for design and application flexibility — Available in 2700 K, 3000 K, 3500 K, and 4000 K color temperatures for applications calling for warm, neutral, or cool white light. Also available in solid blue.
- 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, 120, 208, 220 – 240, and 277 VAC for consistent installation and operation from line voltage in a variety of locations.
- Dimming capability — Patented DIMand® technology offers smooth dimming capability with many electronic low voltage (ELV) dimmers for all input voltages.
- Simple installation — Powercore integrated power management technology simplifies installation and allows product runs ranging from 50 fixtures at 100 VAC to 139 fixtures at 277 VAC. Easy-to-install 4 ft (1.2 m) 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 fixtures are easy to position in even the most challenging mounting circumstances. Fixtures rotate in 10° increments through 180° for precise aiming and color mixing. Optional mounting tracks support vertical and overhead positioning. 1 ft (305 mm) and 5 ft (1.5 m) jumper cables can add extra space between fixtures.

### Superior Binning Algorithm Sets New Standard for Color Consistency

eW Fuse Powercore exceeds the recognized standards for color quality to guarantee uniformity and consistency of hue and color temperature across LEDs, fixtures, and manufacturing runs.

# Setting New Standards for Color Consistency

Achieving consistency of color temperature and hue in linear white lighting applications is one of the most difficult challenges facing lighting designers and installers. Wall-grazing applications can be challenging, as light sources must be positioned very close to the illuminated surfaces with little room for color mixing. Viewed from a distance, even small variations in color temperature and hue are clearly visible.

Linear fluorescent light sources are fairly uniform, but lighting applications that use them can suffer from socket shadowing — areas of low luminance toward the ends of the fluorescent tubes — and hot spots, creating an uneven distribution of light along the illuminated surfaces. Fluorescent fixtures at the same nominal color temperature are also known to vary greatly in hue from manufacturer to manufacturer.

Linear LED lighting fixtures pose their own challenges to consistency and uniformity of light distribution. The beam produced by a linear LED lighting fixture is a series of adjacent point sources, each with a certain degree of hue and color temperature variation. Unless these variations are tightly managed, unwanted tiger-striping can result.

eW Fuse Powercore incorporates an improved version of the proprietary Optibin® binning algorithm used in the entire range of new white-light LED cove and wall-grazing fixtures from Philips Color Kinetics. Optibin's advanced bin selection formula sets new standards for color consistency and uniformity across LEDs. Optibin allows significantly smaller variations in color temperature (CCT) and hue (Duv) than ANSI Chromaticity Standard C78.377A, ensuring virtually imperceptible differences in output from LED to LED and fixture to fixture.

The result? eW Fuse Powercore delivers extremely uniform and consistent color in linear applications, with no socket shadowing, hot spots, color shifting, tiger-striping, or unwanted edge effects. eW Fuse Powercore offers quality of light as good as if not better than comparable fluorescent fixtures — while also offering superior energy efficiency and an average useful life 10 to 20 times longer than the rated life of many fluorescent sources.

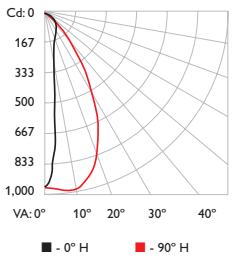
# Photometrics

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.colorkinetics.com/support/ies.

## eW Fuse Powercore 2700 K, 10° x 60° beam angle

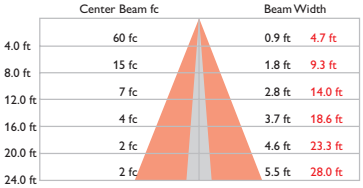
| | |
|---|---|
| Lumens | 517 |
| Efficacy | 43.4 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 0 | 960 | 960 | 960 | 960 | 960 |
| 5 | 637 | 676 | 790 | 923 | 984 |
| 15 | 183 | 191 | 244 | 524 | 927 |
| 25 | 138 | 136 | 145 | 237 | 678 |
| 35 | 104 | 99 | 97 | 125 | 350 |
| 45 | 97 | 82 | 64 | 50 | 83 |
| 55 | 53 | 48 | 34 | 25 | 32 |
| 65 | 32 | 27 | 19 | 15 | 18 |
| 75 | 20 | 17 | 11 | 8 | 7 |
| 85 | 12 | 11 | 7 | 4 | 2 |
| 90 | 9 | 9 | 6 | 3 | 0 |

### Illuminance at Distance




31 ft (9.4 m)
1 fc maximum distance

■ Vert. Spread: 13.2°
■ Horiz. Spread: 60.5°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 285 | 55.1 |
| 0- 40 | 371 | 71.7 |
| 0- 60 | 461 | 89.1 |
| 0- 90 | 503 | 97.3 |
| 90-120 | 11 | 2.1 |
| 90-130 | 13 | 2.5 |
| 90-150 | 14 | 2.7 |
| 90-180 | 14 | 2.7 |
| 0-180 | 517 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

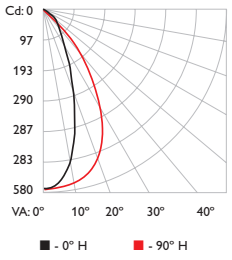
Effective Floor Cavity Reflectance: 20%

| 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 100 | 98 | 96 | 96 | 94 | 92 | 92 | 91 | 89 | 87 |
| 2 | 104 | 98 | 93 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 88 | 85 | 83 | 85 | 83 | 81 | 79 |
| 3 | 97 | 90 | 84 | 79 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 82 | 78 | 75 | 79 | 76 | 73 | 71 |
| 4 | 92 | 83 | 76 | 71 | 89 | 81 | 75 | 70 | 79 | 73 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 |
| 5 | 86 | 77 | 70 | 65 | 84 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 69 | 65 | 62 | 60 |
| 6 | 82 | 71 | 65 | 60 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 65 | 61 | 57 | 56 |
| 7 | 77 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 61 | 57 | 53 | 52 |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 |
| 9 | 70 | 59 | 53 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |
| 10 | 66 | 56 | 50 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 52 | 48 | 44 | 43 |

## eW Fuse Powercore 2700 K, 30° x 60° beam angle

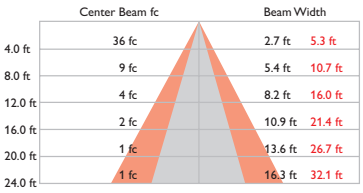
| | |
|---|---|
| Lumens | 534 |
| Efficacy | 44.5 lm/W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 0 | 573 | 573 | 573 | 573 | 573 |
| 5 | 557 | 559 | 565 | 568 | 571 |
| 15 | 367 | 391 | 459 | 518 | 540 |
| 25 | 179 | 200 | 269 | 385 | 431 |
| 35 | 92 | 96 | 127 | 206 | 264 |
| 45 | 55 | 55 | 59 | 69 | 82 |
| 55 | 36 | 32 | 30 | 27 | 31 |
| 65 | 25 | 21 | 16 | 15 | 18 |
| 75 | 16 | 13 | 9 | 8 | 8 |
| 85 | 9 | 8 | 6 | 4 | 2 |
| 90 | 8 | 7 | 5 | 3 | 1 |

### Illuminance at Distance




23.9 ft (7.3 m)
1 fc maximum distance

■ Vert. Spread: 37.6°
■ Horiz. Spread: 67.5°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 312 | 58.4 |
| 0- 40 | 407 | 76.2 |
| 0- 60 | 485 | 90.9 |
| 0- 90 | 521 | 97.6 |
| 90-120 | 10 | 1.8 |
| 90-130 | 11 | 2.1 |
| 90-150 | 13 | 2.4 |
| 90-180 | 13 | 2.4 |
| 0-180 | 534 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

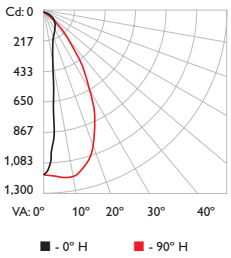
| RC | 80 | | | 70 | | | 50 | | 30 | | 10 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 111 | 108 | 105 | 102 | 108 | 105 | 103 | 100 | 101 | 99 | 97 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 93 | 89 | 86 | 90 | 87 | 84 | 86 | 84 | 82 | 80 |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 81 | 78 | 83 | 79 | 76 | 81 | 77 | 75 | 73 |
| 4 | 93 | 84 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 73 | 70 | 75 | 72 | 69 | 67 |
| 5 | 87 | 78 | 71 | 66 | 85 | 77 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 71 | 67 | 63 | 62 |
| 6 | 82 | 72 | 66 | 61 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 66 | 62 | 59 | 57 |
| 7 | 78 | 68 | 61 | 56 | 76 | 67 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 62 | 58 | 55 | 53 |
| 8 | 74 | 63 | 57 | 52 | 72 | 63 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 59 | 54 | 51 | 49 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 46 |
| 10 | 67 | 56 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 44 |

For lux multiply fc by 10.7

## eW Fuse Powercore
## 3000 K, 10° x 60° beam angle

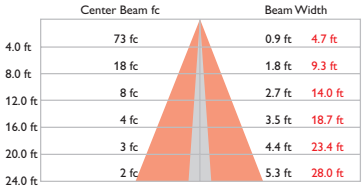
| | |
|---|---|
| Lumens | 602 |
| Efficacy | 50.6 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 90° 0 | 1160 | 1160 | 1160 | 1160 | 1160 |
| 80° 5 | 741 | 793 | 943 | 1115 | 1189 |
| 15 | 209 | 216 | 270 | 601 | 1131 |
| 70° 25 | 160 | 157 | 166 | 264 | 836 |
| 35 | 118 | 114 | 112 | 143 | 431 |
| 45 | 114 | 95 | 74 | 56 | 96 |
| 60° 55 | 63 | 56 | 39 | 27 | 37 |
| 65 | 39 | 31 | 21 | 17 | 22 |
| 75 | 23 | 19 | 13 | 9 | 9 |
| 50° 85 | 13 | 12 | 8 | 4 | 2 |
| 90 | 10 | 10 | 6 | 3 | 1 |

### Illuminance at Distance




34 ft (10.4 m)
1 fc maximum distance

Vert. Spread: 12.7°
Horiz. Spread: 60.6°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 334 | 55.4 |
| 0- 40 | 433 | 71.9 |
| 0- 60 | 537 | 89.2 |
| 0- 90 | 586 | 97.3 |
| 90-120 | 13 | 2.1 |
| 90-130 | 15 | 2.4 |
| 90-150 | 16 | 2.7 |
| 90-180 | 16 | 2.7 |
| 0-180 | 602 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

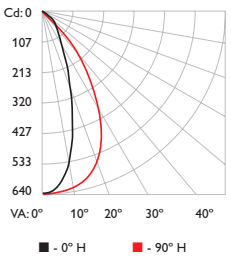
Effective Floor Cavity Reflectance: 20%

| 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 | 97 |
| 1 | 111 | 108 | 104 | 102 | 108 | 105 | 102 | 100 | 100 | 98 | 96 | 96 | 94 | 93 | 92 | 91 | 90 | 87 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 92 | 89 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 |
| 3 | 98 | 90 | 84 | 79 | 95 | 88 | 83 | 78 | 85 | 81 | 77 | 82 | 78 | 75 | 80 | 76 | 74 | 72 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 79 | 74 | 70 | 77 | 72 | 69 | 74 | 71 | 67 | 66 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 61 |
| 6 | 82 | 72 | 65 | 60 | 80 | 71 | 64 | 60 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 7 | 78 | 67 | 60 | 56 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 62 | 57 | 54 | 52 |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 58 | 54 | 50 | 49 |
| 9 | 70 | 59 | 53 | 49 | 69 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 55 | 51 | 47 | 46 |
| 10 | 67 | 56 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 |

## eW Fuse Powercore
## 3000 K, 30° x 60° beam angle

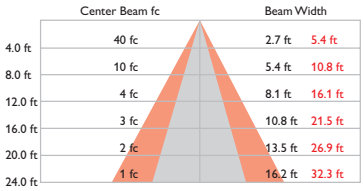
| | |
|---|---|
| Lumens | 595 |
| Efficacy | 49.5 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 90° 0 | 1160 | 1160 | 1160 | 1160 | 1160 |
| 80° 5 | 741 | 793 | 943 | 1115 | 1189 |
| 15 | 209 | 216 | 270 | 601 | 1131 |
| 70° 25 | 160 | 157 | 166 | 264 | 836 |
| 35 | 118 | 114 | 112 | 143 | 431 |
| 45 | 114 | 95 | 74 | 56 | 96 |
| 60° 55 | 63 | 56 | 39 | 27 | 37 |
| 65 | 39 | 31 | 21 | 17 | 22 |
| 75 | 23 | 19 | 13 | 9 | 9 |
| 50° 85 | 13 | 12 | 8 | 4 | 2 |
| 90 | 10 | 10 | 6 | 3 | 1 |

### Illuminance at Distance




25.3 ft (7.7 m)
1 fc maximum distance

Vert. Spread: 37.4°
Horiz. Spread: 67.9°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 347 | 58.3 |
| 0- 40 | 453 | 76.1 |
| 0- 60 | 540 | 90.8 |
| 0- 90 | 582 | 97.8 |
| 90-120 | 11 | 1.8 |
| 90-130 | 12 | 2.1 |
| 90-150 | 13 | 2.2 |
| 90-180 | 13 | 2.2 |
| 0-180 | 595 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

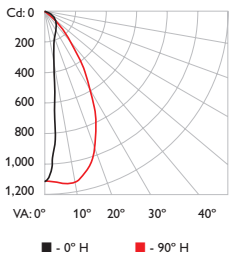
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 93 | 92 | 90 | 88 |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 93 | 90 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 82 | 78 | 83 | 80 | 76 | 81 | 78 | 75 | 73 |
| 4 | 93 | 84 | 77 | 73 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 73 | 70 | 75 | 72 | 69 | 67 |
| 5 | 87 | 78 | 71 | 66 | 85 | 77 | 70 | 66 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 62 |
| 6 | 83 | 72 | 66 | 61 | 81 | 72 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 66 | 62 | 59 | 57 |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 63 | 58 | 55 | 53 |
| 8 | 74 | 64 | 57 | 52 | 73 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 59 | 54 | 51 | 49 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 46 |
| 10 | 67 | 56 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 44 |

For lux multiply fc by 10.7

## eW Fuse Powercore
## 3500 K, 10° x 60° beam angle

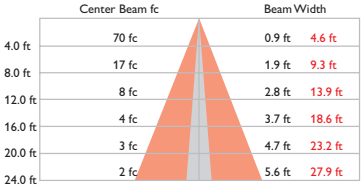
| | |
|---|---|
| Lumens | 602 |
| Efficacy | 49.8 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 90° | | | | | |
| 0 | 1109 | 1109 | 1109 | 1109 | 1109 |
| 80° 5 | 739 | 784 | 913 | 1063 | 1130 |
| 15 | 215 | 224 | 285 | 606 | 1063 |
| 70° 25 | 161 | 158 | 169 | 275 | 778 |
| 35 | 119 | 114 | 112 | 145 | 402 |
| 45 | 113 | 95 | 74 | 59 | 100 |
| 60° 55 | 63 | 56 | 40 | 29 | 38 |
| 65 | 38 | 31 | 22 | 17 | 21 |
| 75 | 23 | 19 | 13 | 9 | 9 |
| 50° 85 | 14 | 12 | 8 | 5 | 2 |
| 90 | 11 | 10 | 7 | 3 | 1 |

### Illuminance at Distance




33.3 ft (10.1 m)
1 fc maximum distance

■ Vert. Spread: 13.3°
■ Horiz. Spread: 60.3°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 330 | 54.9 |
| 0- 40 | 429 | 71.3 |
| 0- 60 | 534 | 88.8 |
| 0- 90 | 584 | 97.1 |
| 90-120 | 13 | 2.2 |
| 90-130 | 16 | 2.6 |
| 90-150 | 17 | 2.9 |
| 90-180 | 18 | 2.9 |
| 0-180 | 602 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

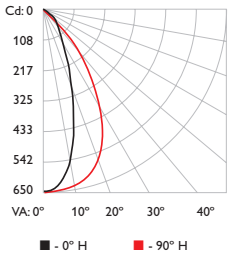
Effective Floor Cavity Reflectance: 20%

| 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 100 | 98 | 96 | 96 | 94 | 92 | 92 | 90 | 89 | 87 |
| 2 | 104 | 98 | 93 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 88 | 85 | 83 | 85 | 83 | 80 | 78 |
| 3 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 82 | 78 | 75 | 79 | 76 | 73 | 71 |
| 4 | 91 | 83 | 76 | 71 | 89 | 81 | 75 | 70 | 79 | 73 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 |
| 5 | 86 | 76 | 70 | 65 | 84 | 75 | 69 | 64 | 73 | 68 | 63 | 71 | 66 | 63 | 69 | 65 | 62 | 60 |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 68 | 63 | 58 | 67 | 62 | 58 | 65 | 61 | 57 | 56 |
| 7 | 77 | 67 | 60 | 55 | 75 | 66 | 59 | 55 | 64 | 58 | 54 | 63 | 58 | 54 | 61 | 57 | 53 | 52 |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 58 | 53 | 50 | 48 |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 51 | 48 | 56 | 51 | 47 | 55 | 50 | 47 | 45 |
| 10 | 66 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 52 | 48 | 44 | 43 |

## eW Fuse Powercore
## 3500 K, 30° x 60° beam angle

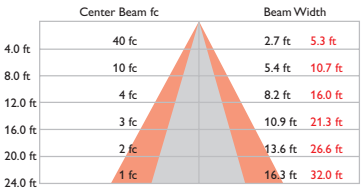
| | |
|---|---|
| Lumens | 600 |
| Efficacy | 50.8 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 90° | | | | | |
| 0 | 643 | 643 | 643 | 643 | 643 |
| 80° 5 | 624 | 626 | 633 | 638 | 640 |
| 15 | 412 | 439 | 514 | 581 | 606 |
| 25 | 202 | 225 | 302 | 431 | 484 |
| 70° 35 | 104 | 109 | 143 | 229 | 294 |
| 45 | 61 | 62 | 67 | 78 | 93 |
| 55 | 40 | 37 | 34 | 31 | 35 |
| 60° 65 | 28 | 24 | 19 | 17 | 20 |
| 75 | 18 | 15 | 11 | 9 | 9 |
| 85 | 11 | 10 | 7 | 4 | 2 |
| 50° 90 | 9 | 8 | 6 | 3 | 1 |

### Illuminance at Distance




25.3 ft (7.7 m)
1 fc maximum distance

■ Vert. Spread: 37.6°
■ Horiz. Spread: 67.3°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 350 | 58.2 |
| 0- 40 | 456 | 76.0 |
| 0- 60 | 545 | 90.8 |
| 0- 90 | 587 | 97.7 |
| 90-120 | 11 | 1.8 |
| 90-130 | 13 | 2.1 |
| 90-150 | 14 | 2.3 |
| 90-180 | 14 | 2.3 |
| 0-180 | 600 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

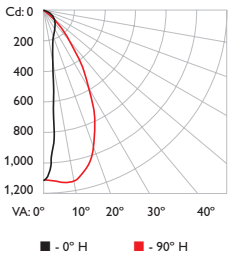
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 93 | 92 | 90 | 88 |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 82 | 78 | 83 | 79 | 76 | 81 | 77 | 75 | 73 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 73 | 70 | 75 | 72 | 69 | 67 |
| 5 | 87 | 78 | 71 | 66 | 85 | 77 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 71 | 67 | 63 | 62 |
| 6 | 83 | 72 | 66 | 61 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 66 | 62 | 59 | 57 |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 62 | 58 | 55 | 53 |
| 8 | 74 | 63 | 57 | 52 | 73 | 63 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 59 | 54 | 51 | 49 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 46 |
| 10 | 67 | 56 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 |

For lux multiply fc by 10.7

## eW Fuse Powercore
## 4000 K, 10° x 60° beam angle

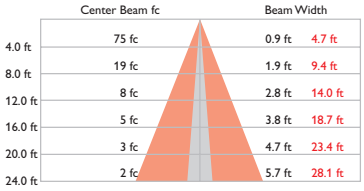
| | |
|---|---|
| Lumens | 657 |
| Efficacy | 55.2 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 90° 0 | 1197 | 1197 | 1197 | 1197 | 1197 |
| 80° 5 | 808 | 857 | 996 | 1156 | 1228 |
| 15 | 233 | 245 | 315 | 671 | 1167 |
| 25 | 175 | 171 | 182 | 304 | 854 |
| 70° 35 | 130 | 125 | 122 | 159 | 441 |
| 45 | 123 | 103 | 80 | 63 | 108 |
| 60° 55 | 70 | 62 | 44 | 31 | 41 |
| 65 | 42 | 34 | 23 | 18 | 23 |
| 75 | 25 | 21 | 14 | 10 | 9 |
| 50° 85 | 15 | 13 | 9 | 5 | 3 |
| 90 | 12 | 11 | 7 | 4 | 1 |

### Illuminance at Distance




34.6 ft (10.5 m)
1 fc maximum distance

■ Vert. Spread: 13.4°
■ Horiz. Spread: 60.6°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 362 | 55.1 |
| 0- 40 | 470 | 71.5 |
| 0- 60 | 584 | 88.9 |
| 0- 90 | 638 | 97.1 |
| 90-120 | 15 | 2.2 |
| 90-130 | 17 | 2.6 |
| 90-150 | 19 | 2.9 |
| 90-180 | 19 | 2.9 |
| 0-180 | 657 | 100.0 |

### Coefficients Of Utilization - Zonal Cavity Method

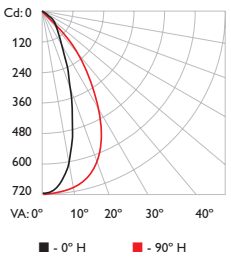
Effective Floor Cavity Reflectance: 20%

| 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 | 97 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 100 | 98 | 96 | 96 | 94 | 92 | 92 | 91 | 89 | 87 |
| 2 | 104 | 98 | 93 | 89 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 85 | 83 | 81 | 79 |
| 3 | 98 | 90 | 84 | 79 | 95 | 88 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 75 | 79 | 76 | 73 | 71 |
| 4 | 92 | 83 | 76 | 71 | 90 | 81 | 75 | 71 | 79 | 74 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 |
| 5 | 86 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 73 | 68 | 64 | 71 | 67 | 63 | 69 | 65 | 62 | 60 |
| 6 | 82 | 71 | 65 | 60 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 65 | 61 | 57 | 56 |
| 7 | 77 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 61 | 57 | 53 | 52 |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 |
| 9 | 70 | 59 | 53 | 48 | 68 | 59 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |
| 10 | 66 | 56 | 50 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 52 | 48 | 44 | 43 |

## eW Fuse Powercore
## 4000 K, 30° x 60° beam angle

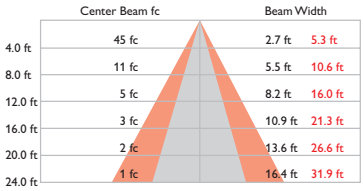
| | |
|---|---|
| Lumens | 669 |
| Efficacy | 57.2 lm / W |

### Polar Candela Distribution




| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| 90° 0 | 715 | 715 | 715 | 715 | 715 |
| 80° 5 | 694 | 697 | 704 | 709 | 711 |
| 15 | 458 | 488 | 572 | 644 | 671 |
| 25 | 225 | 249 | 335 | 479 | 536 |
| 70° 35 | 115 | 121 | 158 | 254 | 327 |
| 45 | 69 | 69 | 75 | 88 | 104 |
| 60° 55 | 45 | 41 | 38 | 35 | 40 |
| 65 | 31 | 27 | 21 | 20 | 23 |
| 75 | 20 | 17 | 12 | 10 | 10 |
| 50° 85 | 12 | 11 | 8 | 5 | 3 |
| 90 | 10 | 9 | 7 | 4 | 1 |

### Illuminance at Distance




26.7 ft (8.1 m)
1 fc maximum distance

■ Vert. Spread: 37.7°
■ Horiz. Spread: 67.3°

### Zonal Lumen

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0- 30 | 388 | 58.1 |
| 0- 40 | 507 | 75.7 |
| 0- 60 | 606 | 90.6 |
| 0- 90 | 653 | 97.6 |
| 90-120 | 13 | 1.9 |
| 90-130 | 15 | 2.2 |
| 90-150 | 16 | 2.4 |
| 90-180 | 16 | 2.4 |
| 0-180 | 669 | 100.0 |

### 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 86 | 84 | 82 | 80 |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 81 | 78 | 83 | 79 | 76 | 80 | 77 | 74 | 73 |
| 4 | 93 | 84 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 70 | 77 | 73 | 69 | 75 | 71 | 68 | 67 |
| 5 | 87 | 78 | 71 | 66 | 85 | 76 | 70 | 65 | 74 | 69 | 65 | 72 | 68 | 64 | 70 | 66 | 63 | 61 |
| 6 | 82 | 72 | 65 | 61 | 81 | 71 | 65 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 66 | 62 | 58 | 57 |
| 7 | 78 | 67 | 61 | 56 | 76 | 67 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 62 | 58 | 54 | 53 |
| 8 | 74 | 63 | 57 | 52 | 72 | 63 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 |
| 9 | 70 | 59 | 53 | 49 | 69 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 56 | 51 | 48 | 46 |
| 10 | 67 | 56 | 50 | 46 | 66 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 |

For lux multiply fc by 10.7

# Specifications

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

| Item | Beam Angle | 2700 K* | 3000 K* | 3500 K* | 4000 K* |
|---|---|---|---|---|---|
| Lumens† | 10° x 60° | 517 | 602 | 602 | 657 |
| | 30° x 60° | 534 | 595 | 600 | 669 |
| Efficacy (lm / W) | 10° x 60° | 43.4 | 50.6 | 49.8 | 55.2 |
| | 30° x 60° | 44.5 | 49.6 | 50.8 | 57.2 |
| CRI | 10° x 60° | 83 | 83 | 84 | 82 |
| | 30° x 60° | 83 | 83 | 83 | 81 |

| Item | Specification | Details | |
|---|---|---|---|
| Output | Lumen Maintenance‡ | 50,000 hours $L_{70}$ @ 25° C 37,000 hours $L_{70}$ @ 50° C<br>90,000 hours $L_{50}$ @ 25° C 80,000 hours $L_{50}$ @ 50° C | |
| Electrical | Input Voltage | 100 / 120 / 208 / 220 – 240 / 277 VAC, auto-switching, 50 / 60 Hz | |
| | Power Consumption | 13.5 W maximum at full output, steady state | |
| | Power Factor | .99 @ 120 V | |
| Control | Dimming | Compatible with many commercially available ELV, trailing edge, or reverse-phase control dimmers§ | |
| Physical | Dimensions *(Height x Width x Depth)* | 1.1 x 12 x 2.1 in<br>(28 x 305 x 53 mm) | |
| | Weight | 0.98 lbs (.45 kg) | |
| | Housing | Die-cast aluminium, white powder-coated finish | |
| | Lens | Polycarbonate | |
| | Fixture Connections | Integral male / female connectors | |
| | Temperature | -40° – 122° F (-40° – 50° C) Operating<br>-4° – 122° F (-20° – 50° C) Startup<br>-40° – 176° F (-40° – 80° C) Storage | |
| | Humidity | 0 – 95%, non-condensing | |
| | Maximum Fixture Run Length‖ | 50 @ 100 VAC<br>60 @ 120 VAC<br>104 @ 208 VAC<br>115 @ 220 – 240 VAC<br>139 @ 277 VAC | *Configuration: Fixtures installed end-to-end, 20 A circuit, standard 10 ft (3 m) Leader Cable* |
| Certification and Safety | Certification | UL / cUL, FCC, CE, C-Tick | |
| | LED Class | Class 2 LED product | |
| | Environment | Dry / Damp Location, IP20 | |

*To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/*

* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

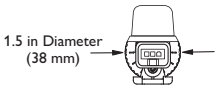
† Lumen measurement complies with IES LM-79-08 testing procedures.

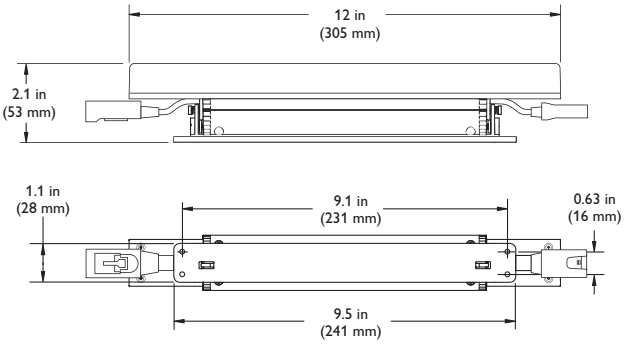
‡ L70 = 70% maintenance of lumen output (when light output drops below 70% of initial output). L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output). Ambient temperatures specified. Based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.colorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

§ Refer to www.colorkinetics.com/support/appnotes/ for specific details.

‖ These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the fixture run lengths.

OPTIBIN® CK TECHNOLOGY | POWERCORE® CK TECHNOLOGY | DIMAND® CK TECHNOLOGY

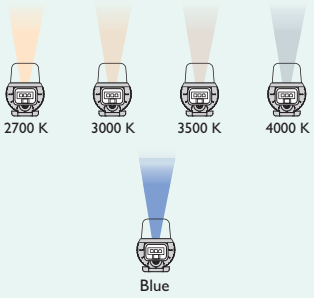


# Product Selection

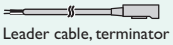
To order eW Fuse Powercore, select a line voltage connection option, a fixture length, and any extra options you might need.

**1** Choose fixture color temperature and / or color



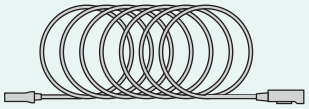

**2** Choose beam angle

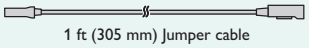

**3** Choose line voltage connection option


Leader cable, terminator and strain relief, UL / cUL, CE / CCC


Wiring compartment, UL / cUL

**4** Choose extra options


5 ft (1.5 m) Jumper cable


1 ft (305 mm) Jumper cable


Mounting track

eW Fuse Powercore fixtures
100 / 120 / 208 / 220 – 240 / 277 VAC
12 in (305 mm)

| Color Temperature / Color | Beam Angle | | Item Number | Philips 12NC |
|---|---|---|---|---|
| eW Fuse Powercore 2700 K | 10° x 60° | | 523-000065-00 | 910503701653 |
| | 30° x 60° | | 523-000065-04 | 910503701657 |
| eW Fuse Powercore 3000 K | 10° x 60° | | 523-000065-01 | 910503701654 |
| | 30° x 60° | | 523-000065-05 | 910503701658 |
| eW Fuse Powercore 3500 K | 10° x 60° | | 523-000065-02 | 910503701655 |
| | 30° x 60° | | 523-000065-06 | 910503701659 |
| eW Fuse Powercore 4000 K | 10° x 60° | | 523-000065-03 | 910503701656 |
| | 30° x 60° | | 523-000065-07 | 910503701660 |
| eW Fuse Powercore Blue | 10° x 60° | | 223-000065-02 | ~~910503701676~~ |
| | 30° x 60° | | 223-000065-06 | ~~910503701680~~ |
| Leader Cable with terminator and strain relief | UL / cUL | 10 ft (3 m) | 108-000047-00 | ~~910503700972~~ |
| | CE / CCC | 10 ft (3 m) | 108-000047-01 | 910503700973 |
| Wiring Compartment with terminator | UL / cUL | | 120-000077-01 | ~~910503700994~~ |
| Jumper Cable | UL / cUL | 1 ft (305 mm) | 108-000048-00 | ~~910503700974~~ |
| | | 5 ft (1.5 m) | 108-000048-01 | ~~910503700975~~ |
| | CE / CCC | 1 ft (305 mm) | 108-000048-02 | 910503700976 |
| | | 5 ft (1.5 m) | 108-000048-03 | 910503700977 |
| Terminators | 10 / box | | 120-000099-00 | 910503701120 |
| Mounting Track, White | Quantity 1 | 4 ft (1219 mm) | 120-000124-00 | 910503701787 |

For connection to standard junction box

Can be used for direct connection to conduit

Depending on the installation's design, you may need jumper cables to add space between fixtures.

Optional mounting track ensures straight runs of fixtures.

Use Item Number when ordering in North America.

# Installation

eW Fuse Powercore offers high-output, energy-efficient indoor white and solid color cove and indirect general lighting with Powercore technology. Powercore technology, which integrates LED power and data management within the fixture, eases installation by eliminating the need for external power supplies.

### Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Fuse Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

*Refer to the eW Fuse Powercore Installation Instructions for specific warning and caution statements.*

# Create a Layout Plan

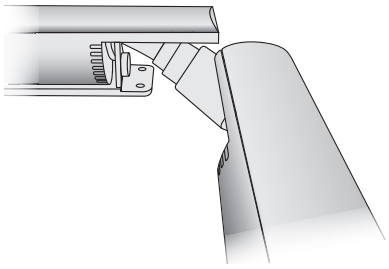
Regardless of the size and complexity of your installation, the time you spend up front can help minimize installation and configuration issues later. Keep these suggestions in mind as you plan your installation:

1. On an architectural diagram or other diagram that shows the physical layout of the installation, create a layout map that specifies the appropriate location of the light fixtures in relation to each other, and to any dimmer switches, wall switches, and line power sources. Identify any obstacles or physical features requiring flexible jumper cables between fixtures.
2. eW Fuse Powercore fixtures are installed in series. The in-line connectors allow end-to-end fixture connections for the best visual effects. Joined directly together, the connectors allow for spacing of .4 in (10 mm) to .9 in (23 mm) without a jumper cable. When you need to separate fixtures by more than these minimums, use the 1 ft (305 mm) or 5 ft (1.5 m) jumper cables.
3. You can install a run of eW Fuse Powercore fixtures using the 10 ft (3 m) Leader Cable with flying leads. This option is preferable when connecting to a third-party junction box, or when retrofitting an existing incandescent or fluorescent cove lighting installation.

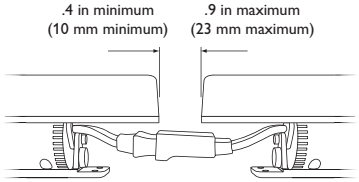
   In North America, you can use the Wiring Compartment when you want to run branch conduit all the way to the first fixture in a series, or where local codes require it.
4. If fixtures are installed end-to-end on a 20 A circuit using the standard 10 ft (3 m) Leader Cable, each run can accommodate from 50 fixtures at 100 VAC to 139 fixtures at 277 VAC. Using the optional jumper cables can decrease the number of fixtures that you can connect in a single run.

## Easy turns

End-to-end locking power connectors can make turns of up to 180° without jumper cables.



## Distance between fixtures joined end-to-end




*To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/, or consult Philips Color Kinetics Application Engineering Services at support@colorkinetics.com*

# Install Wall and Dimmer Switches (optional)

eW Fuse Powercore fixtures can be controlled either with a standard wall switch (on / off) or a compatible, commercially available electronic low-voltage (ELV) dimmer. eW Fuse Powercore fixtures work with trailing edge (reverse-phase) ELV dimmers.

For a list of compatible ELV dimmers, and for details on selecting the appropriate dimmer for your lighting installation, visit www.colorkinetics.com/support/appnotes, or consult Application Engineering services at support@colorkinetics.com.

*Refer to the installation instructions included with the wall or dimmer switch for installation and wiring information.*

# Prepare for the Installation

## Included in the box

| |
|---|
| eW Fuse Powercore fixture |
| Installation Instructions |

1. Verify that all supporting equipment (switches, line power sources) is in place.
2. If your installation calls for jumper cables to add space between fixtures, make sure they are available.
3. Ensure that all additional parts (optional mounting tracks, mounting hardware, terminators) and tools are available.

# Install the Fixtures

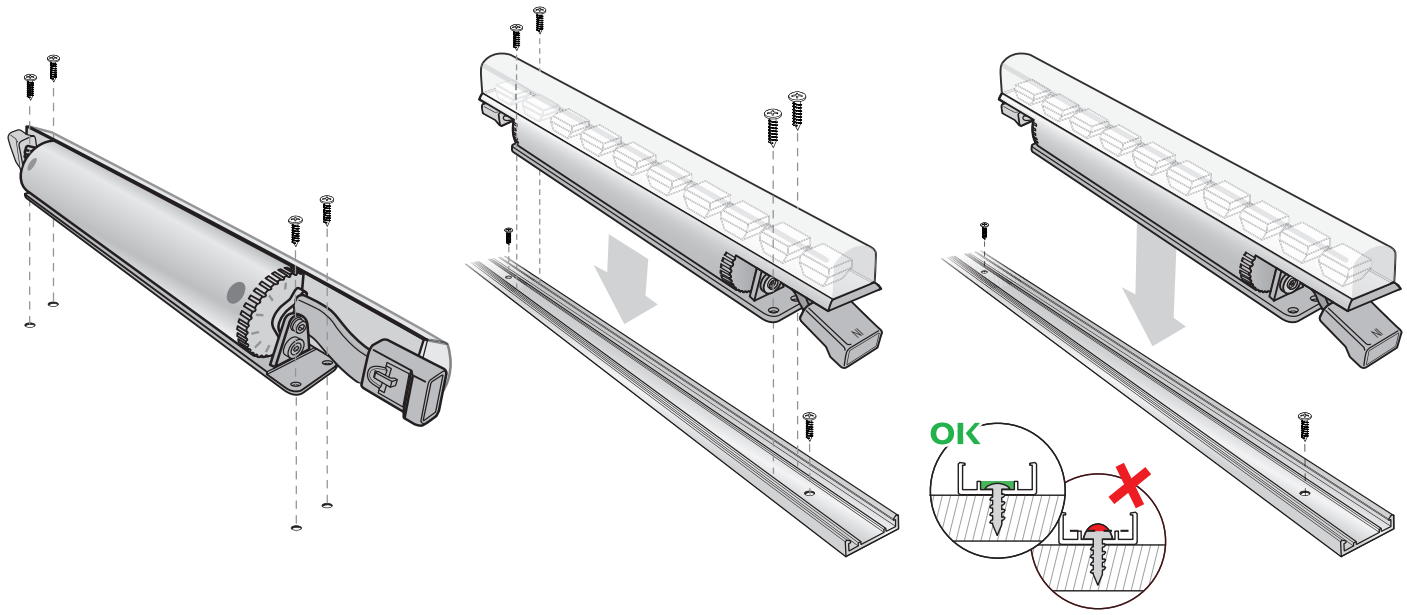
You can mount eW Fuse Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. You can install several eW Fuse Powercore fixtures in optional 4 ft (1.2 m) lengths of mounting track to ensure a straight run.

### (Optional) Install Mounting Tracks

*You can use the fixture base as a template when pre-drilled pilot holes are required. Hold the fixture in place and mark the four screw holes.*

1. Field-cut the mounting tracks to the desired length with a hacksaw or tin snips.
2. Install the mounting tracks using hardware suitable for the mounting surface.

   To ensure proper fixture fit, hardware must not extend above the track standoffs after installation. The recommended maximum spacing between screws is 12 in (305 mm).



## Mount and Connect the Fixtures

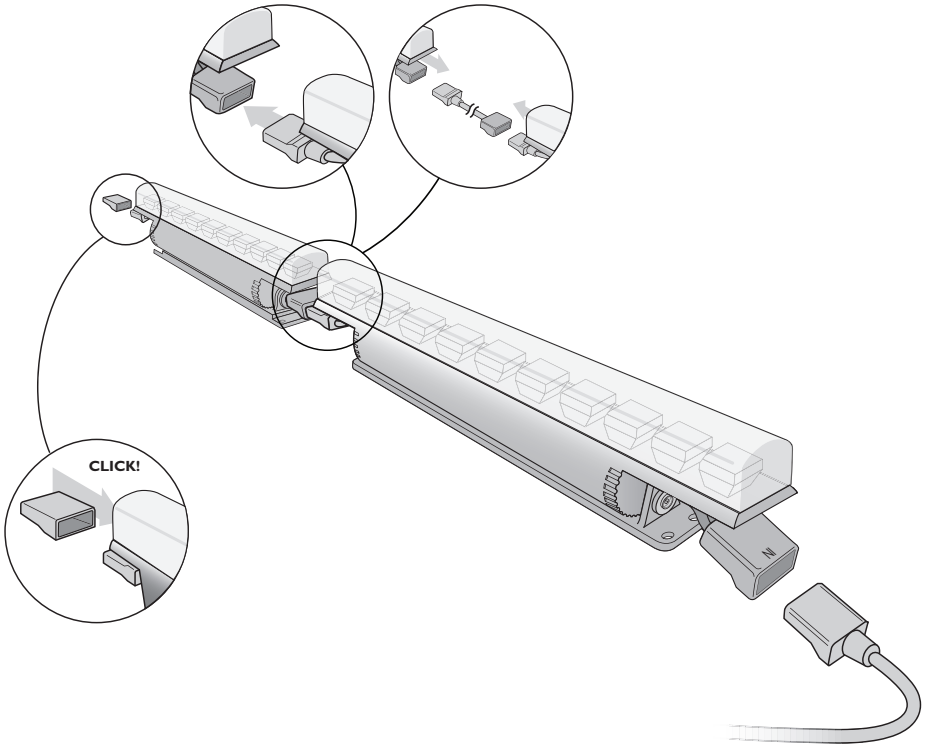
Make sure the power is OFF before mounting and connecting eW Fuse Powercore fixtures.

1. Rotate an eW Fuse Powercore fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

   If using mounting tracks on a horizontal surface, snap the fixture into the track.

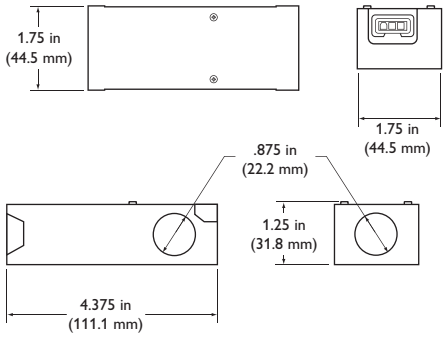
   If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach the fixture with four #6 (3.5 mm) mounting screws (not included) suitable for the mounting surface.

   Ensure that the male connector is in position to receive power from the female connector on the Leader Cable or Wiring Compartment.
3. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. Attach the fixture to the surface or snap it into the track.

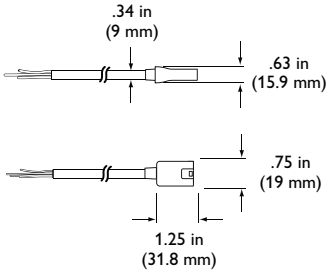



4. Continue mounting the fixtures, making power connections as you go, until all lights in the series are mounted.
5. Insert the provided terminator into the last fixture in the series.
6. Make power connections.

## Wiring Compartment dimensions

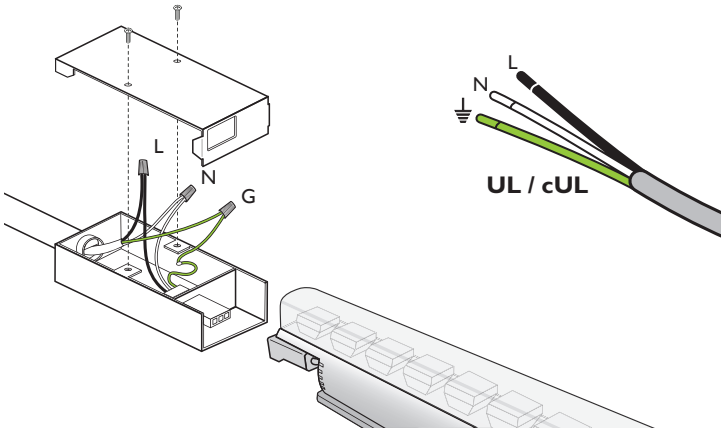



## Leader Cable connector dimensions



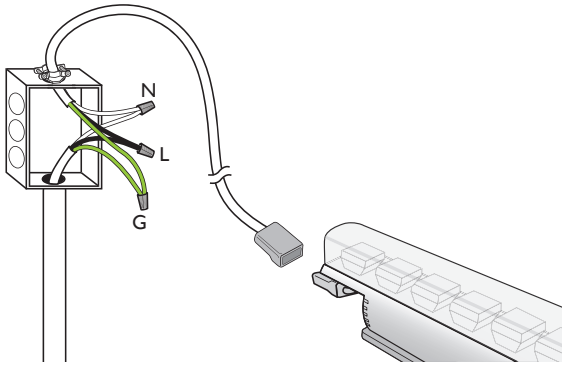

**To run power or conduit to the first fixture in a series (UL / cUL installations):**

- Remove the cover from the eW Fuse Powercore Wiring Compartment.
- Using wire nuts, connect ground, neutral, and line inside the Wiring Compartment housing, then replace the cover.
- Connect the eW Cove Powercore Wiring Compartment to the first fixture in the series.



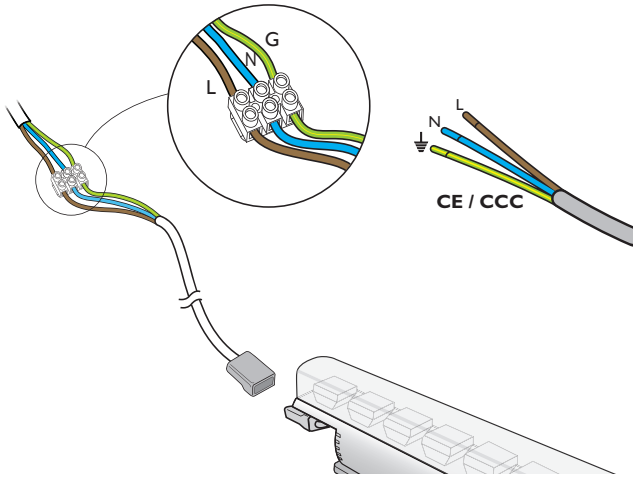

**To connect the first fixture in a series to a third-party junction box using the 10 ft (3 m) Leader Cable (UL / cUL installations):**

- Remove the cover of the third-party junction box.
- Connect ground, neutral, and line inside the junction box housing, then replace the junction box cover.
- Connect the 10 ft (3 m) Leader Cable to the first fixture in the series.



**For CE / CCC installations:**

- Connect the Leader Cable to a terminal block. For CE installation, the terminal block must conform to EN 60998-2-1 or EN 60998-2-2, rated 220 – 240 VAC.
- Connect ground, neutral, and line to a power source.
- Connect the 10 ft (3 m) Leader Cable to the first fixture in the series.

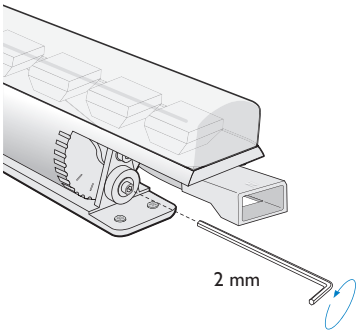


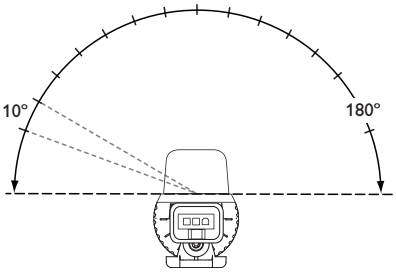

## Aim and Lock the Fixtures

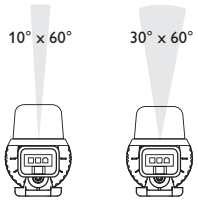
Make sure the power is ON before aiming fixtures. Do not look directly into beam.

Aim the fixtures by rotating each fixture to the correct angle. There are detents every 10° in the bracket that hold the fixture in position.

(Optional) Using a 2 mm hex key wrench, tighten the set screw located on each end of the fixture to lock the fixture in place.

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