



EvenBalance Essential White Powercore

Interior linear solid white light forward throw asymmetric luminaire

PHILIPS



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Interior linear solid white light forward throw asymmetric luminaire

EvenBalance Essential White Powercore is a compact interior linear luminaire that is ideal for washing and grazing applications where uniform light is paramount. The forward-throw asymmetric optic efficiently provides industry-leading illuminance uniformity. Two beam spreads: Washing and Grazing, two lengths: 305 mm (1 ft) and 1219 mm (4 ft), and the ability to continuously rotate the fixture up to 180° enable a high degree of flexibility for lighting designers when using EvenBalance Essential White Powercore.

- Uniform illumination—EvenBalance Essential White Powercore delivers a uniformity ratio of less than 3:1 on a 3 m (9 ft) wall with an 0.5 m (1.5 ft) setback.
- Precise control of light—Asymmetric optic design provides precise control of light and delivers more illumination with higher uniformity at a lower power than comparable fluorescent asymmetric reflector solutions.
- Design flexibility—EvenBalance Essential White Powercore is available in two lengths: 305 mm (1 ft) and 1219 mm (4 ft) and two different beam spreads: Washing or Grazing.
- 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.
- Multiple color temperatures—Available in 2700K, 3000K, 3500K, and 4000K color temperatures for applications calling for warm, neutral, or cool white light.
- Simple installation—The linear design and small form factor of EvenBalance Essential White Powercore makes it easy to install and conceal in tight interior spaces. The 180° continuous rotation and constant torque rotation make the fixture extremely adaptable in any application.
- Support for multiple voltages—Accepts line voltage of 100 – 277 VAC for consistent installation and operation around the world.
- Dimming capability—Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.



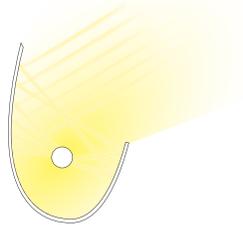
Industry-best white light quality and color consistency

Optibin, Philips proprietary binning optimization process, provides color-consistency within a 2-step MacAdam's ellipse from fixture to fixture and manufacturing run to manufacturing run.

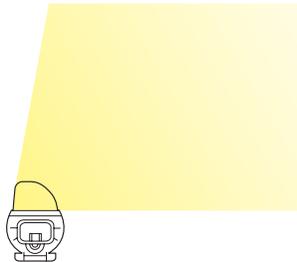
Unprecedented uniformity and consistency for demanding white-light applications

Fluorescent asymmetric reflectors are often used in applications that require balanced light. However, the inherent limitations of fluorescent light and asymmetric reflectors generate sub-optimal results. These solutions can only provide low delivered lumens, and often require layering and other work-arounds that help give the illusion of seamless illumination.

The innovative LED asymmetric optic design of EvenBalance Essential White Powercore enables the fixture to deliver consistent, bright light for both Grazing and Washing applications. With a uniformity ratio of up to <math><3:1</math>, and a <math><2</math> step MacAdam ellipse color variance from fixture to fixture that is virtually unnoticeable to the human eye, EvenBalance Essential White Powercore provides industry-leading illuminance uniformity and color consistency. The new optic also allows for precise control of light from the source, resulting in higher efficacy and higher delivered lumens, while requiring less power compared to fluorescent asymmetric solutions.



Inconsistent control and low delivered lumens are typical issues when using fluorescent asymmetric reflectors.



EvenBalance Essential White Powercore features an innovative optic design that delivers light precisely where it is needed.

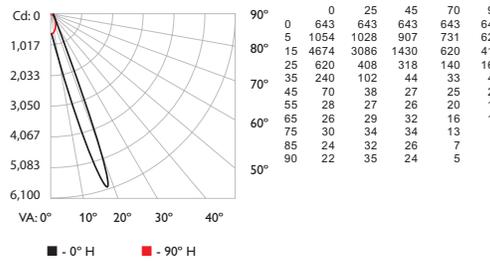
Photometrics / EvenBalance Essential White Powercore, 305 mm (12 in), 12.5 W / ft

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

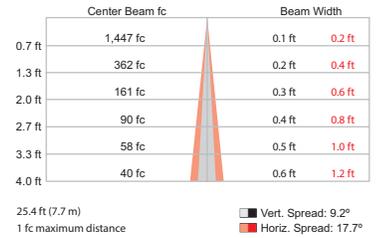
2700K, Washing

| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 775 | 64.9 | 81 |

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 531.7 | 68.6% |
| 0-40 | 588.9 | 75.9% |
| 0-60 | 661.2 | 85.3% |
| 0-90 | 737.0 | 95.0% |
| 60-90 | 75.9 | 9.8% |
| 70-100 | 59.7 | 7.7% |
| 90-120 | 32.2 | 4.1% |
| 90-180 | 38.4 | 5.0% |
| 0-180 | 775.4 | 100.0% |

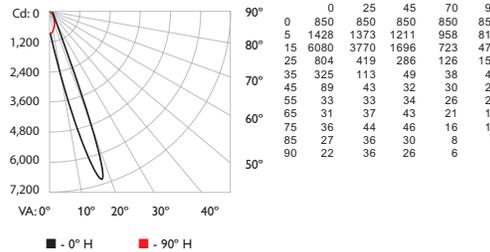
Coefficients Of Utilization - Zonal Cavity Method

| RCC %: | 80 | | | | 70 | | | | Effective Floor Cavity Reflectance: 20% | | | | | | |
|--------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 0 |
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 0 |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 0.95 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.97 |
| 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 0.95 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.97 | 0.97 |
| 1 | 1.10 | 1.07 | 1.04 | 1.01 | 1.07 | 1.04 | 1.01 | 0.86 | 0.99 | 0.97 | 0.95 | 0.94 | 0.93 | 0.91 | 0.90 |
| 2 | 1.04 | 0.98 | 0.93 | 0.89 | 1.01 | 0.96 | 0.91 | 0.79 | 0.92 | 0.88 | 0.85 | 0.88 | 0.85 | 0.82 | 0.84 |
| 3 | 0.98 | 0.91 | 0.85 | 0.80 | 0.96 | 0.89 | 0.84 | 0.73 | 0.86 | 0.81 | 0.77 | 0.82 | 0.79 | 0.76 | 0.74 |
| 4 | 0.93 | 0.85 | 0.78 | 0.74 | 0.91 | 0.83 | 0.77 | 0.68 | 0.80 | 0.75 | 0.71 | 0.78 | 0.73 | 0.70 | 0.75 |
| 5 | 0.88 | 0.79 | 0.73 | 0.68 | 0.86 | 0.78 | 0.72 | 0.64 | 0.76 | 0.70 | 0.67 | 0.73 | 0.69 | 0.65 | 0.71 |
| 6 | 0.84 | 0.75 | 0.68 | 0.64 | 0.82 | 0.73 | 0.67 | 0.60 | 0.71 | 0.66 | 0.62 | 0.69 | 0.65 | 0.61 | 0.68 |
| 7 | 0.80 | 0.70 | 0.64 | 0.60 | 0.78 | 0.69 | 0.63 | 0.57 | 0.68 | 0.62 | 0.59 | 0.66 | 0.61 | 0.58 | 0.64 |
| 8 | 0.76 | 0.67 | 0.60 | 0.56 | 0.75 | 0.66 | 0.60 | 0.54 | 0.64 | 0.59 | 0.55 | 0.63 | 0.58 | 0.55 | 0.62 |
| 9 | 0.73 | 0.63 | 0.57 | 0.53 | 0.72 | 0.63 | 0.57 | 0.51 | 0.61 | 0.56 | 0.52 | 0.60 | 0.55 | 0.52 | 0.59 |
| 10 | 0.70 | 0.60 | 0.54 | 0.50 | 0.69 | 0.60 | 0.54 | 0.49 | 0.58 | 0.53 | 0.50 | 0.57 | 0.53 | 0.49 | 0.56 |

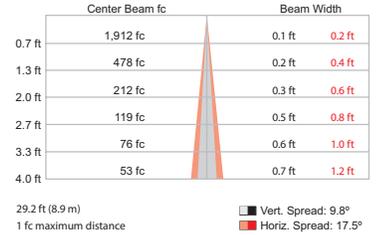
3000K, Washing

| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 927 | 79.1 | 81 |

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 645.6 | 69.6% |
| 0-40 | 713.1 | 76.9% |
| 0-60 | 796.2 | 85.9% |
| 0-90 | 885.7 | 95.5% |
| 60-90 | 89.5 | 9.6% |
| 70-100 | 68.9 | 7.4% |
| 90-120 | 34.5 | 3.7% |
| 90-180 | 41.4 | 4.5% |
| 0-180 | 927.1 | 100.0% |

Coefficients Of Utilization - Zonal Cavity Method

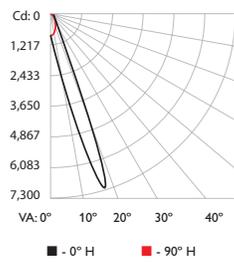
| RCC %: | 80 | | | | 70 | | | | Effective Floor Cavity Reflectance: 20% | | | | | | |
|--------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 0 |
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 0 |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 0.96 | 1.09 | 1.09 | 1.09 | 1.03 | 1.03 | 1.03 | 0.98 |
| 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 0.96 | 1.09 | 1.09 | 1.09 | 1.03 | 1.03 | 1.03 | 0.98 |
| 1 | 1.11 | 1.07 | 1.04 | 1.01 | 1.08 | 1.04 | 1.02 | 0.86 | 1.00 | 0.97 | 0.95 | 0.95 | 0.93 | 0.92 | 0.91 |
| 2 | 1.04 | 0.98 | 0.94 | 0.90 | 1.02 | 0.96 | 0.92 | 0.80 | 0.92 | 0.89 | 0.86 | 0.89 | 0.86 | 0.83 | 0.85 |
| 3 | 0.99 | 0.91 | 0.86 | 0.81 | 0.96 | 0.90 | 0.84 | 0.74 | 0.86 | 0.82 | 0.78 | 0.83 | 0.79 | 0.76 | 0.80 |
| 4 | 0.94 | 0.85 | 0.79 | 0.74 | 0.91 | 0.84 | 0.78 | 0.69 | 0.81 | 0.76 | 0.72 | 0.78 | 0.74 | 0.71 | 0.76 |
| 5 | 0.89 | 0.80 | 0.74 | 0.69 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.67 | 0.74 | 0.70 | 0.66 | 0.72 |
| 6 | 0.85 | 0.75 | 0.69 | 0.65 | 0.83 | 0.74 | 0.68 | 0.61 | 0.72 | 0.67 | 0.63 | 0.70 | 0.66 | 0.63 | 0.69 |
| 7 | 0.81 | 0.71 | 0.65 | 0.61 | 0.79 | 0.70 | 0.64 | 0.58 | 0.69 | 0.63 | 0.60 | 0.67 | 0.62 | 0.59 | 0.66 |
| 8 | 0.77 | 0.68 | 0.61 | 0.57 | 0.76 | 0.67 | 0.61 | 0.55 | 0.65 | 0.60 | 0.57 | 0.64 | 0.59 | 0.56 | 0.63 |
| 9 | 0.74 | 0.64 | 0.58 | 0.54 | 0.73 | 0.64 | 0.58 | 0.53 | 0.62 | 0.57 | 0.54 | 0.61 | 0.57 | 0.53 | 0.60 |
| 10 | 0.71 | 0.61 | 0.55 | 0.52 | 0.70 | 0.61 | 0.55 | 0.50 | 0.60 | 0.55 | 0.51 | 0.58 | 0.54 | 0.51 | 0.57 |

For lux multiply fc by 10.7

3500K, Washing

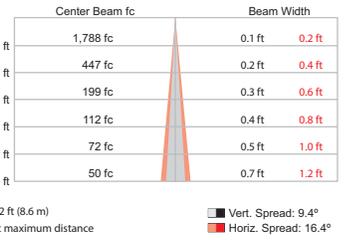
| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 887 | 77.2 | 83 |

Polar Candela Distribution



| 90° | 0 | 25 | 45 | 70 | 90 |
|-----|------|------|------|-----|-----|
| 0 | 795 | 795 | 795 | 795 | 795 |
| 5 | 1316 | 1258 | 1090 | 882 | 760 |
| 15 | 6508 | 3898 | 1625 | 680 | 477 |
| 25 | 687 | 336 | 208 | 121 | 169 |
| 35 | 266 | 97 | 44 | 35 | 44 |
| 45 | 66 | 37 | 29 | 27 | 26 |
| 55 | 29 | 30 | 31 | 23 | 20 |
| 65 | 29 | 34 | 39 | 19 | 15 |
| 75 | 32 | 38 | 39 | 14 | 8 |
| 85 | 24 | 35 | 27 | 6 | 2 |
| 90 | 22 | 39 | 24 | 5 | 3 |

Illuminance at Distance



28.2 ft (8.6 m)
1 fc maximum distance

■ Vert. Spread: 9.4°
■ Horiz. Spread: 16.4°

Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 617.2 | 69.6% |
| 0-40 | 680.8 | 76.8% |
| 0-60 | 760.6 | 85.8% |
| 0-90 | 844.6 | 95.2% |
| 60-90 | 84.0 | 9.5% |
| 70-100 | 65.1 | 7.3% |
| 90-120 | 35.3 | 4.0% |
| 90-180 | 42.2 | 4.8% |
| 0-180 | 886.8 | 100.0% |

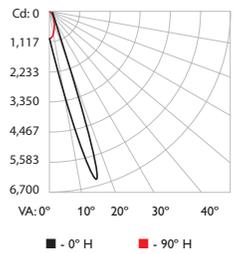
Coefficients Of Utilization - Zonal Cavity Method

| 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 | 50 | 30 | 20 | 0 | | | | | | | | | | | | | | | |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 0.95 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.98 | 0.98 | 0.98 | 0.98 | 0.95 | 1.11 | 1.07 | 1.04 | 1.01 | 1.08 | 1.04 | 1.02 | 0.86 | 0.99 | 0.97 | 0.95 | 0.95 | 0.93 | 0.91 | 0.91 | 0.89 | 0.88 | 0.86 | |
| | 2 | 1.04 | 0.99 | 0.94 | 0.90 | 1.02 | 0.96 | 0.92 | 0.79 | 0.92 | 0.89 | 0.86 | 0.89 | 0.86 | 0.83 | 0.85 | 0.83 | 0.81 | 0.79 | 0.79 | 1.04 | 0.99 | 0.94 | 0.90 | 1.02 | 0.96 | 0.92 | 0.79 | 0.92 | 0.89 | 0.86 | 0.89 | 0.86 | 0.83 | 0.85 | 0.83 | 0.81 | 0.79 | 0.79 |
| | 3 | 0.99 | 0.91 | 0.86 | 0.81 | 0.96 | 0.90 | 0.84 | 0.74 | 0.86 | 0.82 | 0.78 | 0.83 | 0.80 | 0.76 | 0.80 | 0.77 | 0.75 | 0.73 | 0.73 | 1.04 | 0.85 | 0.79 | 0.75 | 0.91 | 0.84 | 0.78 | 0.69 | 0.81 | 0.76 | 0.72 | 0.78 | 0.74 | 0.71 | 0.76 | 0.73 | 0.70 | 0.68 | 0.68 |
| | 4 | 0.89 | 0.80 | 0.74 | 0.69 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 |
| | 6 | 0.85 | 0.75 | 0.69 | 0.65 | 0.83 | 0.74 | 0.69 | 0.61 | 0.72 | 0.67 | 0.63 | 0.71 | 0.66 | 0.63 | 0.69 | 0.65 | 0.62 | 0.60 | 0.60 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 |
| | 7 | 0.81 | 0.71 | 0.65 | 0.61 | 0.79 | 0.70 | 0.65 | 0.58 | 0.69 | 0.64 | 0.60 | 0.67 | 0.63 | 0.59 | 0.66 | 0.62 | 0.59 | 0.57 | 0.57 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 |
| | 8 | 0.77 | 0.68 | 0.62 | 0.58 | 0.76 | 0.67 | 0.61 | 0.55 | 0.65 | 0.60 | 0.57 | 0.64 | 0.60 | 0.56 | 0.63 | 0.59 | 0.56 | 0.54 | 0.54 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 |
| | 9 | 0.74 | 0.64 | 0.59 | 0.55 | 0.73 | 0.64 | 0.58 | 0.53 | 0.62 | 0.57 | 0.54 | 0.61 | 0.57 | 0.53 | 0.60 | 0.56 | 0.53 | 0.52 | 0.52 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 |
| | 10 | 0.71 | 0.61 | 0.56 | 0.52 | 0.70 | 0.61 | 0.55 | 0.50 | 0.60 | 0.55 | 0.51 | 0.59 | 0.54 | 0.51 | 0.58 | 0.54 | 0.51 | 0.49 | 0.49 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.64 | 0.64 |

4000K, Washing

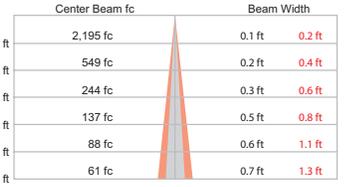
| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 881 | 76.6 | 81 |

Polar Candela Distribution



| 90° | 0 | 25 | 45 | 70 | 90 |
|-----|------|------|------|------|-----|
| 0 | 976 | 976 | 976 | 976 | 976 |
| 5 | 1660 | 1536 | 1336 | 1062 | 894 |
| 15 | 6439 | 3643 | 1564 | 654 | 450 |
| 25 | 680 | 295 | 146 | 92 | 126 |
| 35 | 253 | 88 | 44 | 35 | 39 |
| 45 | 60 | 38 | 30 | 28 | 26 |
| 55 | 30 | 32 | 32 | 22 | 20 |
| 65 | 31 | 36 | 40 | 18 | 15 |
| 75 | 33 | 39 | 38 | 13 | 8 |
| 85 | 24 | 35 | 27 | 6 | 2 |
| 90 | 23 | 37 | 23 | 5 | 3 |

Illuminance at Distance



31.3 ft (9.5 m)
1 fc maximum distance

■ Vert. Spread: 9.8°
■ Horiz. Spread: 18.0°

Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 613.5 | 69.6% |
| 0-40 | 675.8 | 76.7% |
| 0-60 | 755.4 | 85.7% |
| 0-90 | 841.7 | 95.5% |
| 60-90 | 86.2 | 9.8% |
| 70-100 | 66.8 | 7.6% |
| 90-120 | 34.1 | 3.9% |
| 90-180 | 39.6 | 4.5% |
| 0-180 | 881.3 | 100.0% |

Coefficients Of Utilization - Zonal Cavity Method

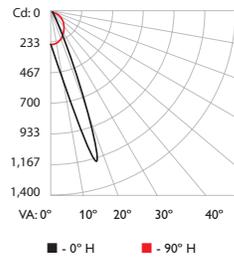
| RCC %: | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 | | | | | | | | | | | | | | | | | | |
|--------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | RW | % | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 50 | 30 | 20 | 0 | 50 | 30 | 20 | 0 | | | | | | | | | | | | | | | |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 0.96 | 1.09 | 1.09 | 1.09 | 1.03 | 1.03 | 1.03 | 0.98 | 0.98 | 0.98 | 0.98 | 0.96 | 1.11 | 1.07 | 1.04 | 1.01 | 1.08 | 1.05 | 1.02 | 0.87 | 1.00 | 0.97 | 0.95 | 0.95 | 0.93 | 0.92 | 0.91 | 0.89 | 0.88 | | |
| | 2 | 1.04 | 0.99 | 0.94 | 0.90 | 1.02 | 0.97 | 0.92 | 0.80 | 0.92 | 0.89 | 0.86 | 0.89 | 0.86 | 0.83 | 0.85 | 0.83 | 0.81 | 0.79 | 0.79 | 1.04 | 0.85 | 0.79 | 0.75 | 0.91 | 0.84 | 0.78 | 0.69 | 0.81 | 0.76 | 0.72 | 0.78 | 0.74 | 0.71 | 0.76 | 0.73 | 0.70 | 0.68 | 0.68 |
| | 3 | 0.99 | 0.92 | 0.86 | 0.82 | 0.96 | 0.90 | 0.85 | 0.74 | 0.87 | 0.82 | 0.79 | 0.83 | 0.80 | 0.77 | 0.81 | 0.78 | 0.75 | 0.73 | 0.73 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |
| | 4 | 0.94 | 0.86 | 0.80 | 0.75 | 0.92 | 0.84 | 0.79 | 0.70 | 0.81 | 0.77 | 0.73 | 0.79 | 0.75 | 0.72 | 0.76 | 0.73 | 0.70 | 0.69 | 0.69 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |
| | 6 | 0.85 | 0.75 | 0.70 | 0.65 | 0.83 | 0.75 | 0.69 | 0.62 | 0.73 | 0.68 | 0.64 | 0.71 | 0.67 | 0.63 | 0.69 | 0.65 | 0.62 | 0.60 | 0.60 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |
| | 7 | 0.82 | 0.72 | 0.66 | 0.62 | 0.80 | 0.71 | 0.65 | 0.59 | 0.70 | 0.64 | 0.61 | 0.68 | 0.63 | 0.60 | 0.66 | 0.62 | 0.59 | 0.58 | 0.58 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |
| | 8 | 0.78 | 0.69 | 0.63 | 0.58 | 0.77 | 0.68 | 0.62 | 0.56 | 0.66 | 0.61 | 0.58 | 0.65 | 0.60 | 0.57 | 0.64 | 0.60 | 0.57 | 0.55 | 0.55 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |
| | 9 | 0.75 | 0.65 | 0.60 | 0.56 | 0.74 | 0.65 | 0.59 | 0.54 | 0.63 | 0.58 | 0.55 | 0.62 | 0.58 | 0.55 | 0.61 | 0.57 | 0.54 | 0.53 | 0.53 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |
| | 10 | 0.72 | 0.62 | 0.57 | 0.53 | 0.71 | 0.62 | 0.56 | 0.52 | 0.61 | 0.56 | 0.52 | 0.60 | 0.55 | 0.52 | 0.59 | 0.55 | 0.52 | 0.50 | 0.50 | 1.04 | 0.85 | 0.79 | 0.75 | 0.87 | 0.79 | 0.73 | 0.65 | 0.76 | 0.71 | 0.68 | 0.74 | 0.70 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 | |

For lux multiply fc by 10.7

2700K, Grazing

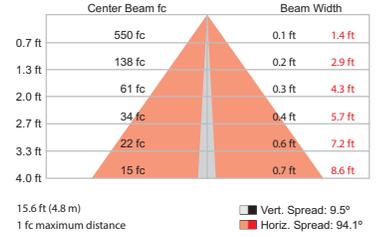
| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 764 | 67.0 | 81 |

Polar Candela Distribution



| | | | | | |
|-------|----|------|-----|------|------|
| Cd: 0 | 0 | 25 | 45 | 70 | 90 |
| 233 | 0 | 244 | 244 | 244 | 244 |
| 467 | 5 | 348 | 338 | 313 | 270 |
| 700 | 15 | 1036 | 922 | 641 | 348 |
| 933 | 25 | 187 | 249 | 1212 | 461 |
| 1,167 | 35 | 85 | 96 | 148 | 813 |
| 1,400 | 45 | 47 | 52 | 62 | 1068 |
| | 55 | 35 | 37 | 40 | 411 |
| | 65 | 37 | 35 | 33 | 104 |
| | 75 | 38 | 36 | 31 | 24 |
| | 85 | 34 | 32 | 27 | 11 |
| | 90 | 34 | 32 | 27 | 8 |

Illuminance at Distance



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 294.2 | 38.5% |
| 0-40 | 429.6 | 56.3% |
| 0-60 | 616.4 | 80.7% |
| 0-90 | 717.2 | 93.9% |
| 60-90 | 100.8 | 13.2% |
| 70-100 | 72.2 | 9.5% |
| 90-120 | 40.6 | 5.3% |
| 90-180 | 46.4 | 6.1% |
| 0-180 | 763.6 | 100.0% |

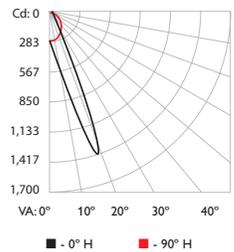
Coefficients Of Utilization - Zonal Cavity Method

| RCC %: | 80 | | | | 70 | | | | Effective Floor Cavity Reflectance: 20% | | | | | | | |
|--------|----|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|
| | 50 | 30 | 10 | 0 | 50 | 30 | 10 | 0 | 50 | 30 | 20 | 10 | 0 | | | |
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 0 | |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 0.94 | 1.08 | 1.08 | 1.08 | 1.02 | 1.02 | 1.02 | 0.96 | |
| | 1 | 1.08 | 1.04 | 1.00 | 0.97 | 1.05 | 1.01 | 0.98 | 0.81 | 0.96 | 0.93 | 0.90 | 0.91 | 0.89 | 0.87 | 0.85 |
| | 2 | 1.00 | 0.93 | 0.87 | 0.81 | 0.97 | 0.90 | 0.85 | 0.71 | 0.86 | 0.81 | 0.77 | 0.82 | 0.78 | 0.75 | 0.78 |
| | 3 | 0.92 | 0.83 | 0.76 | 0.70 | 0.89 | 0.81 | 0.74 | 0.63 | 0.77 | 0.72 | 0.67 | 0.74 | 0.69 | 0.65 | 0.71 |
| | 4 | 0.86 | 0.75 | 0.67 | 0.61 | 0.83 | 0.73 | 0.66 | 0.56 | 0.70 | 0.64 | 0.59 | 0.67 | 0.62 | 0.58 | 0.64 |
| | 5 | 0.79 | 0.68 | 0.60 | 0.54 | 0.77 | 0.67 | 0.59 | 0.50 | 0.64 | 0.57 | 0.52 | 0.61 | 0.56 | 0.51 | 0.59 |
| | 6 | 0.74 | 0.62 | 0.54 | 0.48 | 0.72 | 0.61 | 0.53 | 0.45 | 0.58 | 0.52 | 0.47 | 0.56 | 0.51 | 0.46 | 0.54 |
| | 7 | 0.69 | 0.57 | 0.49 | 0.43 | 0.67 | 0.56 | 0.48 | 0.41 | 0.54 | 0.47 | 0.42 | 0.52 | 0.46 | 0.42 | 0.50 |
| | 8 | 0.65 | 0.52 | 0.45 | 0.39 | 0.63 | 0.51 | 0.44 | 0.37 | 0.50 | 0.43 | 0.38 | 0.48 | 0.42 | 0.38 | 0.47 |
| | 9 | 0.61 | 0.48 | 0.41 | 0.36 | 0.59 | 0.48 | 0.41 | 0.34 | 0.46 | 0.40 | 0.35 | 0.45 | 0.39 | 0.35 | 0.43 |
| | 10 | 0.57 | 0.45 | 0.38 | 0.33 | 0.56 | 0.44 | 0.37 | 0.31 | 0.43 | 0.37 | 0.32 | 0.42 | 0.36 | 0.32 | 0.40 |

3000K, Grazing

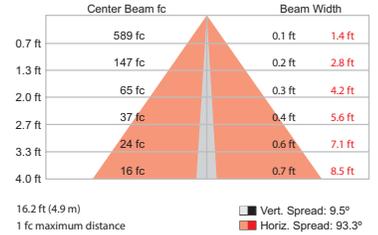
| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 927 | 79.3 | 81 |

Polar Candela Distribution



| | | | | | |
|-------|----|------|-----|------|------|
| Cd: 0 | 0 | 25 | 45 | 70 | 90 |
| 283 | 0 | 262 | 262 | 262 | 262 |
| 567 | 5 | 355 | 350 | 322 | 285 |
| 850 | 15 | 1051 | 901 | 624 | 349 |
| 1,133 | 25 | 291 | 679 | 1495 | 433 |
| 1,417 | 35 | 126 | 142 | 235 | 591 |
| 1,700 | 45 | 63 | 69 | 88 | 1140 |
| | 55 | 44 | 45 | 49 | 643 |
| | 65 | 45 | 43 | 40 | 175 |
| | 75 | 47 | 44 | 37 | 39 |
| | 85 | 42 | 40 | 33 | 15 |
| | 90 | 41 | 39 | 33 | 11 |

Illuminance at Distance



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 340.2 | 36.7% |
| 0-40 | 507.8 | 54.8% |
| 0-60 | 740.9 | 80.0% |
| 0-90 | 865.6 | 93.4% |
| 60-90 | 124.7 | 13.5% |
| 70-100 | 88.8 | 9.6% |
| 90-120 | 51.7 | 5.6% |
| 90-180 | 61.1 | 6.6% |
| 0-180 | 926.7 | 100.0% |

Coefficients Of Utilization - Zonal Cavity Method

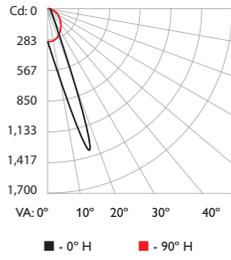
| RCC %: | 80 | | | | 70 | | | | Effective Floor Cavity Reflectance: 20% | | | | | | | |
|--------|----|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|
| | 50 | 30 | 10 | 0 | 50 | 30 | 10 | 0 | 50 | 30 | 20 | 10 | 0 | | | |
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 0 | |
| RCR: | 0 | 1.17 | 1.17 | 1.17 | 1.14 | 1.14 | 1.14 | 0.93 | 1.07 | 1.07 | 1.07 | 1.01 | 1.01 | 1.01 | 0.96 | |
| | 1 | 1.08 | 1.04 | 1.00 | 0.96 | 1.05 | 1.01 | 0.97 | 0.80 | 0.95 | 0.92 | 0.90 | 0.90 | 0.88 | 0.86 | 0.85 |
| | 2 | 1.00 | 0.92 | 0.86 | 0.81 | 0.96 | 0.90 | 0.84 | 0.70 | 0.85 | 0.81 | 0.77 | 0.81 | 0.77 | 0.74 | 0.71 |
| | 3 | 0.92 | 0.82 | 0.75 | 0.69 | 0.89 | 0.80 | 0.74 | 0.61 | 0.77 | 0.71 | 0.66 | 0.73 | 0.68 | 0.64 | 0.70 |
| | 4 | 0.85 | 0.74 | 0.66 | 0.60 | 0.82 | 0.72 | 0.65 | 0.54 | 0.69 | 0.63 | 0.58 | 0.66 | 0.61 | 0.57 | 0.63 |
| | 5 | 0.79 | 0.67 | 0.59 | 0.53 | 0.76 | 0.66 | 0.58 | 0.49 | 0.63 | 0.56 | 0.51 | 0.60 | 0.55 | 0.50 | 0.58 |
| | 6 | 0.73 | 0.61 | 0.53 | 0.47 | 0.71 | 0.60 | 0.52 | 0.44 | 0.57 | 0.51 | 0.46 | 0.55 | 0.49 | 0.45 | 0.53 |
| | 7 | 0.68 | 0.56 | 0.48 | 0.42 | 0.66 | 0.55 | 0.47 | 0.39 | 0.53 | 0.46 | 0.41 | 0.51 | 0.45 | 0.40 | 0.49 |
| | 8 | 0.64 | 0.51 | 0.44 | 0.38 | 0.62 | 0.50 | 0.43 | 0.36 | 0.49 | 0.42 | 0.37 | 0.47 | 0.41 | 0.37 | 0.45 |
| | 9 | 0.60 | 0.47 | 0.40 | 0.35 | 0.58 | 0.47 | 0.39 | 0.33 | 0.45 | 0.38 | 0.34 | 0.43 | 0.38 | 0.33 | 0.42 |
| | 10 | 0.56 | 0.44 | 0.37 | 0.32 | 0.55 | 0.43 | 0.36 | 0.30 | 0.42 | 0.35 | 0.31 | 0.40 | 0.35 | 0.31 | 0.39 |

For lux multiply fc by 10.7

3500K, Grazing

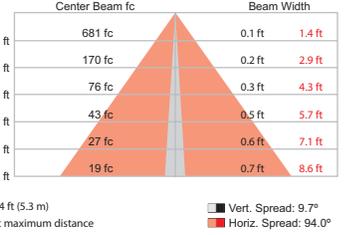
| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 884 | 76.0 | 83 |

Polar Candela Distribution



| | | | | | |
|-----|------|------|------|------|-----|
| 90° | 0 | 25 | 45 | 70 | 90 |
| 0 | 303 | 303 | 303 | 303 | 303 |
| 5 | 454 | 433 | 397 | 342 | 304 |
| 15 | 1294 | 1187 | 826 | 451 | 267 |
| 25 | 195 | 239 | 1271 | 618 | 243 |
| 35 | 97 | 107 | 153 | 1193 | 197 |
| 45 | 52 | 57 | 68 | 1243 | 150 |
| 55 | 39 | 40 | 44 | 500 | 102 |
| 65 | 41 | 39 | 37 | 158 | 54 |
| 75 | 41 | 40 | 35 | 41 | 16 |
| 85 | 36 | 35 | 30 | 15 | 5 |
| 90 | 36 | 35 | 31 | 11 | 4 |

Illuminance at Distance



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 346.3 | 39.2% |
| 0-40 | 501.6 | 56.8% |
| 0-60 | 716.2 | 81.0% |
| 0-90 | 832.3 | 94.2% |
| 60-90 | 116.2 | 13.1% |
| 70-100 | 81.2 | 9.2% |
| 90-120 | 45.0 | 5.1% |
| 90-180 | 51.5 | 5.8% |
| 0-180 | 883.8 | 100.0% |

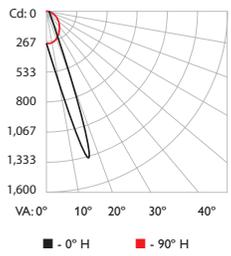
Coefficients Of Utilization - Zonal Cavity Method

| 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 | 50 | 30 | 20 | 0 | |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 0.94 | 1.08 | 1.08 | 1.08 | 1.02 | 1.02 | 1.02 | 0.97 | 0.97 | 0.97 | 0.97 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| 1 | 1.08 | 1.04 | 1.00 | 0.97 | 1.05 | 1.01 | 0.98 | 0.82 | 0.86 | 0.93 | 0.91 | 0.91 | 0.89 | 0.87 | 0.87 | 0.87 | 0.85 | 0.83 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 |
| 2 | 1.00 | 0.93 | 0.87 | 0.82 | 0.97 | 0.90 | 0.85 | 0.71 | 0.88 | 0.82 | 0.78 | 0.82 | 0.78 | 0.75 | 0.78 | 0.75 | 0.73 | 0.73 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 3 | 0.93 | 0.83 | 0.76 | 0.70 | 0.90 | 0.81 | 0.75 | 0.63 | 0.78 | 0.72 | 0.67 | 0.74 | 0.70 | 0.66 | 0.71 | 0.67 | 0.64 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 |
| 4 | 0.88 | 0.75 | 0.67 | 0.62 | 0.83 | 0.74 | 0.66 | 0.56 | 0.70 | 0.64 | 0.59 | 0.68 | 0.62 | 0.58 | 0.65 | 0.60 | 0.57 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| 5 | 0.80 | 0.68 | 0.60 | 0.54 | 0.77 | 0.67 | 0.59 | 0.50 | 0.64 | 0.58 | 0.53 | 0.62 | 0.56 | 0.52 | 0.59 | 0.55 | 0.51 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| 6 | 0.74 | 0.62 | 0.54 | 0.49 | 0.72 | 0.61 | 0.54 | 0.45 | 0.59 | 0.52 | 0.47 | 0.57 | 0.51 | 0.47 | 0.55 | 0.50 | 0.46 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| 7 | 0.69 | 0.57 | 0.49 | 0.44 | 0.67 | 0.56 | 0.49 | 0.41 | 0.54 | 0.48 | 0.43 | 0.52 | 0.47 | 0.42 | 0.51 | 0.45 | 0.42 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| 8 | 0.65 | 0.53 | 0.45 | 0.40 | 0.63 | 0.52 | 0.45 | 0.38 | 0.50 | 0.44 | 0.39 | 0.49 | 0.43 | 0.38 | 0.47 | 0.42 | 0.38 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| 9 | 0.61 | 0.49 | 0.41 | 0.36 | 0.60 | 0.48 | 0.41 | 0.35 | 0.47 | 0.40 | 0.36 | 0.45 | 0.39 | 0.35 | 0.44 | 0.39 | 0.35 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| 10 | 0.58 | 0.45 | 0.38 | 0.33 | 0.56 | 0.45 | 0.38 | 0.32 | 0.43 | 0.37 | 0.33 | 0.42 | 0.36 | 0.32 | 0.41 | 0.36 | 0.32 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |

4000K, Grazing

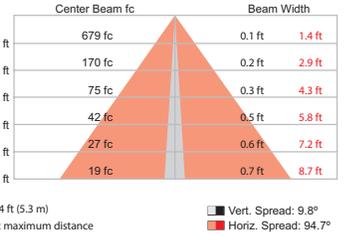
| Lumens | Efficacy | CRI |
|--------|----------|-----|
| 878 | 74.3 | 81 |

Polar Candela Distribution



| | | | | | |
|-----|------|------|------|------|-----|
| 90° | 0 | 25 | 45 | 70 | 90 |
| 0 | 302 | 302 | 302 | 302 | 302 |
| 5 | 441 | 426 | 390 | 337 | 299 |
| 15 | 1290 | 1183 | 814 | 432 | 273 |
| 25 | 200 | 248 | 1324 | 561 | 234 |
| 35 | 101 | 113 | 166 | 848 | 191 |
| 45 | 52 | 58 | 72 | 1244 | 144 |
| 55 | 40 | 40 | 43 | 549 | 67 |
| 65 | 42 | 40 | 36 | 145 | 44 |
| 75 | 43 | 41 | 34 | 32 | 12 |
| 85 | 38 | 36 | 30 | 13 | 6 |
| 90 | 38 | 36 | 30 | 10 | 4 |

Illuminance at Distance



Zonal Lumen

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 343.1 | 39.1% |
| 0-40 | 496.4 | 56.5% |
| 0-60 | 708.2 | 80.6% |
| 0-90 | 824.5 | 93.9% |
| 60-90 | 116.3 | 13.2% |
| 70-100 | 83.2 | 9.5% |
| 90-120 | 46.7 | 5.3% |
| 90-180 | 53.7 | 6.1% |
| 0-180 | 878.2 | 100.0% |

Coefficients Of Utilization - Zonal Cavity Method

| 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 | 50 | 30 | 20 | 0 | |
| RCR: | 0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 0.94 | 1.08 | 1.08 | 1.08 | 1.02 | 1.02 | 1.02 | 0.96 | 0.96 | 0.96 | 0.96 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| 1 | 1.08 | 1.04 | 1.00 | 0.97 | 1.05 | 1.01 | 0.98 | 0.81 | 0.96 | 0.93 | 0.90 | 0.91 | 0.89 | 0.87 | 0.87 | 0.85 | 0.83 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 |
| 2 | 1.00 | 0.93 | 0.87 | 0.82 | 0.97 | 0.90 | 0.85 | 0.71 | 0.88 | 0.81 | 0.77 | 0.82 | 0.78 | 0.75 | 0.78 | 0.75 | 0.72 | 0.72 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 3 | 0.92 | 0.83 | 0.76 | 0.70 | 0.90 | 0.81 | 0.75 | 0.63 | 0.77 | 0.72 | 0.67 | 0.74 | 0.69 | 0.65 | 0.71 | 0.67 | 0.64 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 |
| 4 | 0.88 | 0.75 | 0.67 | 0.61 | 0.83 | 0.73 | 0.66 | 0.56 | 0.70 | 0.64 | 0.59 | 0.67 | 0.62 | 0.58 | 0.65 | 0.60 | 0.56 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 |
| 5 | 0.80 | 0.68 | 0.60 | 0.54 | 0.77 | 0.67 | 0.59 | 0.50 | 0.64 | 0.58 | 0.53 | 0.62 | 0.56 | 0.52 | 0.59 | 0.54 | 0.51 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| 6 | 0.74 | 0.62 | 0.54 | 0.49 | 0.72 | 0.61 | 0.54 | 0.45 | 0.59 | 0.52 | 0.47 | 0.57 | 0.51 | 0.46 | 0.55 | 0.50 | 0.46 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| 7 | 0.69 | 0.57 | 0.49 | 0.44 | 0.67 | 0.56 | 0.49 | 0.41 | 0.54 | 0.48 | 0.43 | 0.52 | 0.46 | 0.42 | 0.50 | 0.45 | 0.41 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 |
| 8 | 0.65 | 0.53 | 0.45 | 0.40 | 0.63 | 0.52 | 0.45 | 0.38 | 0.50 | 0.44 | 0.39 | 0.48 | 0.43 | 0.38 | 0.47 | 0.42 | 0.38 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| 9 | 0.61 | 0.49 | 0.41 | 0.36 | 0.59 | 0.48 | 0.41 | 0.34 | 0.47 | 0.40 | 0.36 | 0.45 | 0.39 | 0.35 | 0.44 | 0.39 | 0.35 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| 10 | 0.58 | 0.45 | 0.38 | 0.33 | 0.56 | 0.45 | 0.38 | 0.32 | 0.43 | 0.37 | 0.33 | 0.42 | 0.36 | 0.32 | 0.41 | 0.36 | 0.32 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |

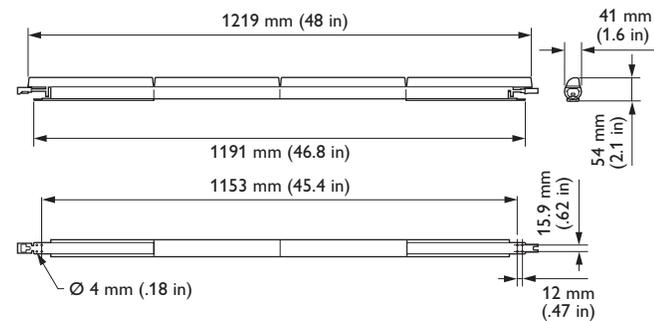
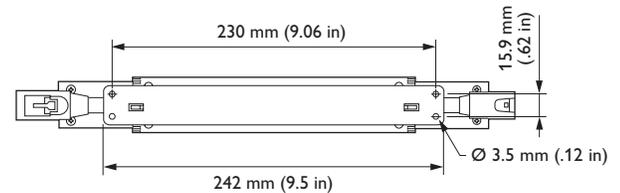
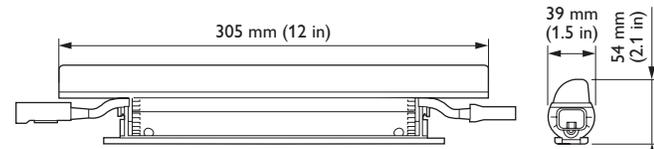
For lux multiply fc by 10.7

EvenBalance Essential White Powercore Specifications:

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

| Application | Color Temperature* | Lumens (305mm) | Lumens† (1219 mm) | Efficacy (lm / W) | CRI |
|-------------|--------------------|----------------|-------------------|-------------------|-----|
| Washing | 2700K | 775 | 3100 | 64.9 | 81 |
| | 3000K | 927 | 3708 | 79.1 | 81 |
| | 3500K | 887 | 3548 | 77.2 | 83 |
| | 4000K | 881 | 3524 | 76.6 | 81 |
| Grazing | 2700K | 764 | 3056 | 67.0 | 81 |
| | 3000K | 927 | 3708 | 79.3 | 81 |
| | 3500K | 884 | 3536 | 76.0 | 83 |
| | 4000K | 878 | 3512 | 74.3 | 81 |

| Item | Specification | Details |
|--------------------------|---|--|
| Output | Lumen Maintenance‡ | >54,000 hours L90 @ 25° C Reported >54,000 hours L90 @ 50° C Reported >200,000 hours L80 @ 25° C Calculated >200,000 hours L80 @ 50° C Calculated >200,000 hours L70 @ 25° C Calculated >200,000 hours L70 @ 50° C Calculated |
| Electrical | Input Voltage | 100 – 277 VAC, auto-switching, 50 / 60 Hz |
| | Power Consumption | 12.5 W maximum at full output, steady state (305 mm) 50 W maximum at full output, steady state (1219 mm) |
| | Power Factor | .99 @ 120 V |
| Control | Dimming | Compatible with selected commercially available reverse-phase ELV-type dimmers§ |
| Physical | Dimensions <i>(Height x Width x Depth)</i> | 54 x 305 x 39 mm (2.1 x 12 x 1.5 in) 54 x 1219 x 41 mm (2.1 x 48 x 1.6 in) |
| | Weight | 445 g (0.98 lb) 1.98 kg (4.37 lb) |
| | Housing | Die-cast aluminium, white powder-coated finish. |
| | Lens | Polycarbonate |
| | Fixture Connections | Integral male / female connectors |
| | Temperature Ranges | -40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage |
| | Humidity | 0 – 95%, non-condensing |
| | Fixture Run Lengths | To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/ |
| Certification and Safety | Certification | UL / cUL, FCC Class B, CE, C-Tick, CCC |
| | Environment | UL Dry / Damp Location, IP20 |



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



† 305 mm (1 ft) lumen output measurement complies with IES LM-79-08 testing procedures. 1219 mm (4 ft) measurements are estimated based on the 305 mm (1 ft) measurements.

‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output). L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

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

Product Selection

To order EvenBalance Essential White Powercore, choose a color temperature, an application, a fixture length, a line voltage connection option, and any extra options you may need.

1 Choose beam angle

2 Choose color temperature

3 Choose fixture length

4 Choose line voltage connection option

5 Choose extra options

Fixtures

| Application | Color Temperature | Type | Item Number | Philips 12NC |
|-------------|-------------------|----------------|---------------|--------------|
| Washing | 2700 K | 305 mm (1 ft) | 523-000099-08 | 912400134219 |
| | | 1219 mm (4 ft) | 523-000099-12 | 912400134223 |
| | 3000 K | 305 mm (1 ft) | 523-000099-09 | 912400134220 |
| | | 1219 mm (4 ft) | 523-000099-13 | 912400134224 |
| | 3500 K | 305 mm (1 ft) | 523-000099-10 | 912400134221 |
| | | 1219 mm (4 ft) | 523-000099-14 | 912400134225 |
| | 4000 K | 305 mm (1 ft) | 523-000099-11 | 912400134222 |
| | | 1219 mm (4 ft) | 523-000099-15 | 912400134226 |
| Grazing | 2700 K | 305 mm (1 ft) | 523-000099-00 | 912400134211 |
| | | 1219 mm (4 ft) | 523-000099-04 | 912400134215 |
| | 3000 K | 305 mm (1 ft) | 523-000099-01 | 912400134212 |
| | | 1219 mm (4 ft) | 523-000099-05 | 912400134216 |
| | 3500 K | 305 mm (1 ft) | 523-000099-02 | 912400134213 |
| | | 1219 mm (4 ft) | 523-000099-06 | 912400134217 |
| | 4000 K | 305 mm (1 ft) | 523-000099-03 | 912400134214 |
| | | 1219 mm (4 ft) | 523-000099-07 | 912400134218 |

Use Item Number when ordering in North America.

Accessories

| Item | Type | | Item Number | Philips 12NC |
|--|------------|--|---------------|--------------|
| Leader Cable with terminator and strain relief | UL / cUL | 3 m (10 ft) | 108-000047-00 | 910503700972 |
| | CE / CCC | 3 m (10 ft) | 108-000047-01 | 910503700973 |
| Wiring Compartment with terminator | UL / cUL | 44.5 x 44.5 x 111.1 mm (1.75 x 1.75 x 4.38 in) | 120-000077-01 | 910503700994 |
| Jumper Cable | UL / cUL | 305 mm (12 in) | 108-000048-00 | 910503700974 |
| | | 1.5 m (5 ft) | 108-000048-01 | 910503700975 |
| | CE / CCC | 305 mm (12 in) | 108-000048-02 | 910503700976 |
| | | 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 |

Use Item Number when ordering in North America.

Installation

EvenBalance Essential White Powercore offers high-output, energy-efficient indoor white 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 EvenBalance Essential White 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.

Create a Layout Plan

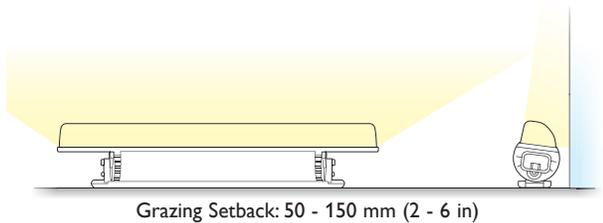
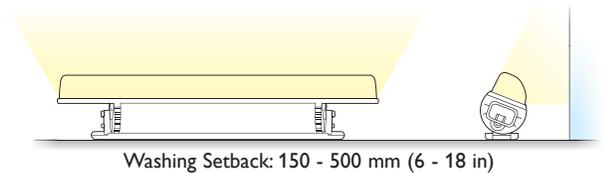
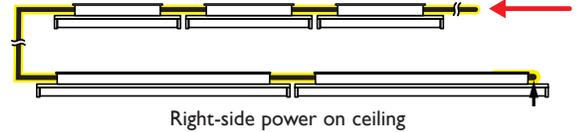
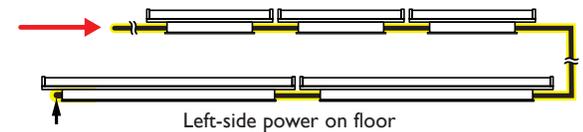
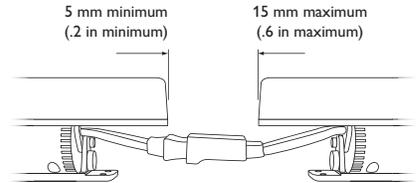
Regardless of the size and complexity of your installation, the time you spend planning can help minimize installation and configuration issues later. Keep these suggestions in mind as you plan your installation:

- 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.
- EvenBalance Essential White 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 on the 305 mm (1 ft) fixtures allow for spacing of 10 mm (0.4 in) to 23 mm (0.9 in) without a jumper cable, while the connectors on the 1219 mm (4 ft) fixtures allow for spacing of 23 mm (0.9 in) to 51 mm (2 in) without a jumper cable. When you need to separate fixtures by more than these minimums, use the 305 mm (1 ft) or 1.5 m (5 ft) jumper cables.
- You can install a run of EvenBalance Essential White Powercore fixtures using the 3 m (10 ft) 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.
- EvenBalance Essential White Powercore fixtures accept power in the left-side when on the floor facing up, or the right-side when on the ceiling facing down.
- 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.
- The maximum number of fixtures each circuit can support depends on specific configuration details such as fixture length, fixture spacing, circuit size, line voltage, and leader and jumper cable length. For more information, and for help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Application Engineering Services at support@colorkinetics.com.
- A 150 – 500 mm (6 – 18 in) setback is required for the washing application and a 50 – 150 mm (2 – 6 in) setback is required for the grazing application.

✳ Refer to the *EvenBalance Essential White Powercore Installation Instructions* for specific warning and caution statements.

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

Distance between fixtures joined end-to-end

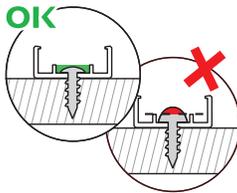


✳️ Refer to the installation instructions included with the wall or dimmer switch for installation and wiring information.

Included in the box

EvenBalance Essential White Powercore fixture
Installation Instructions

✳️ 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.



Install Wall and Dimmer Switches (optional)

EvenBalance Essential White Powercore fixtures can be controlled either with a standard wall switch (on / off) or a compatible, commercially available reverse-phase ELV-type dimmers. EvenBalance Essential White Powercore fixtures work with selected trailing edge reverse-phase (ELV) dimmers.

For a list of compatible 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.

Prepare for the Installation

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 EvenBalance Essential White Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. You can install EvenBalance Essential White Powercore fixtures in optional 1219 mm (4 ft) lengths of mounting track to ensure a straight run.

Install Mounting Tracks (Optional)

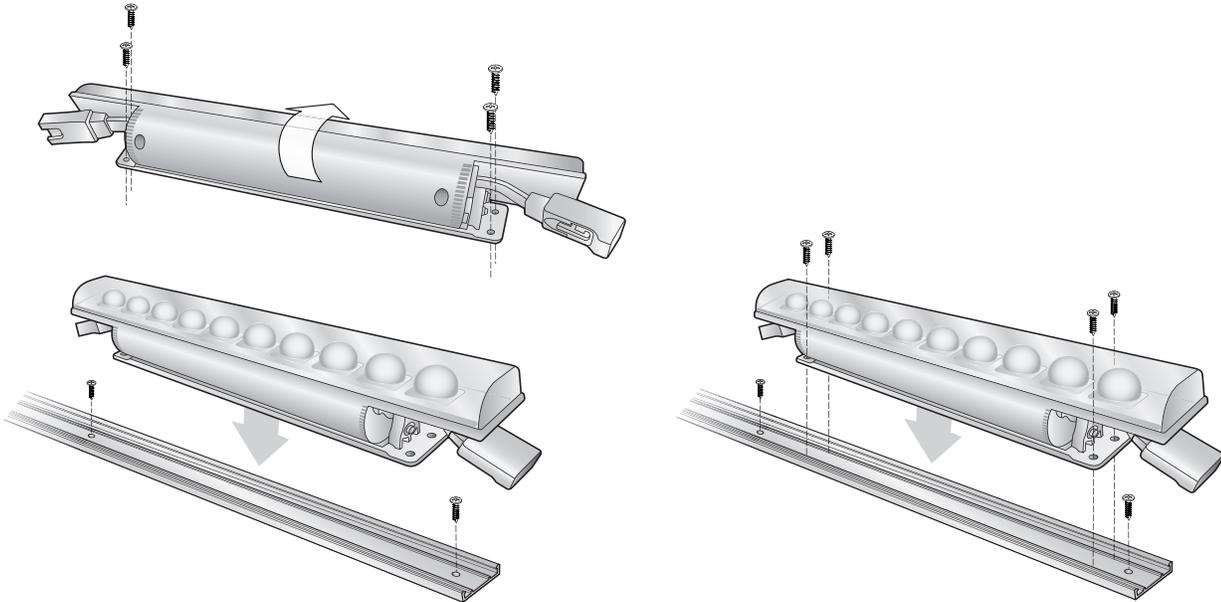
1. Field-cut the mounting tracks to the desired length with a hacksaw or tin snips.
2. Install the mounting tracks using hardware suitable for the mounting surface.

To ensure proper fixture fit, hardware must not extend above the track standoffs after installation. The recommended maximum spacing between screws is 305 mm (1 ft).

Mount and Connect the Fixtures

Make sure the power is OFF before mounting and connecting EvenBalance Essential White Powercore fixtures.

1. Rotate an EvenBalance Essential White Powercore fixture as necessary to provide unobstructed access to the mounting holes.



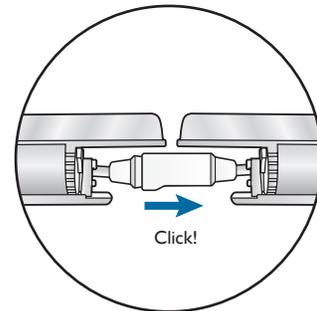
2. Position the first fixture in a series.

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

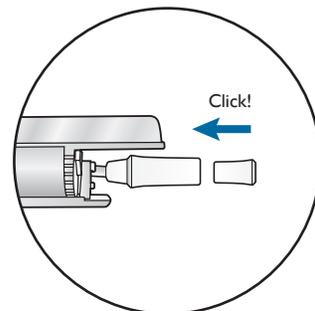
If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach 1 ft (305 mm) fixtures with four #6 (3.5 mm) mounting screws each (not included) suitable for the mounting surface. Attach 1219 mm (4 ft) fixtures with eight #6 (3.5 mm) mounting screws suitable for the mounting surface, four at each end of the fixture,

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.

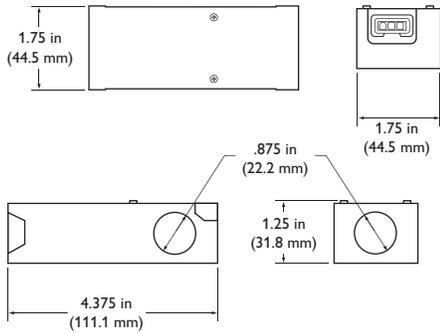


Male and Female Connectors

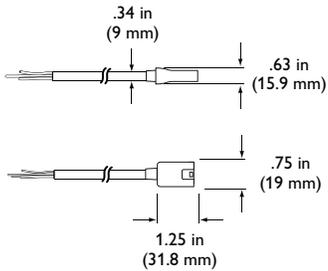


Terminator

Wiring Compartment dimensions

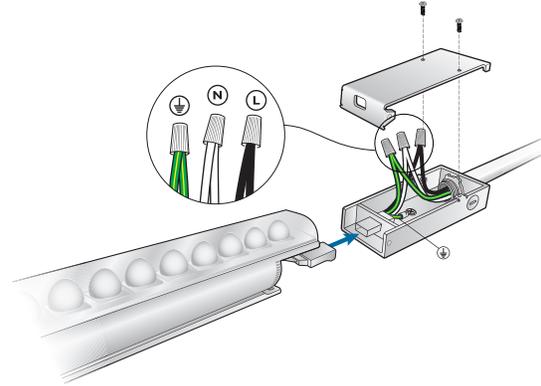


Leader Cable connector dimensions



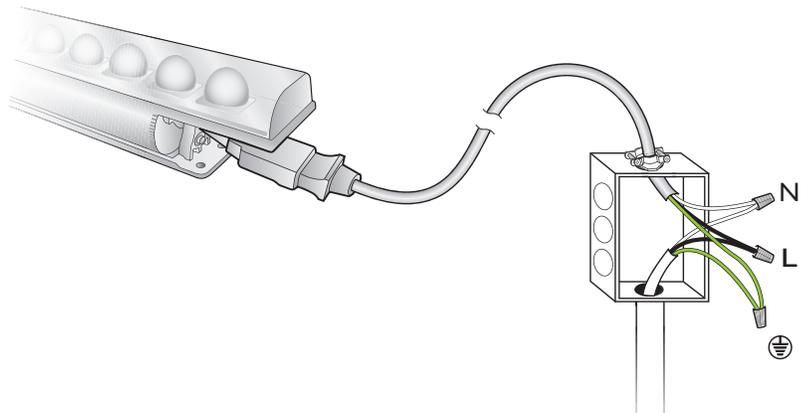
To run power or conduit to the first fixture in a series (UL / cUL installations):

1. Remove the cover from the EvenBalance Essential White Powercore Wiring Compartment.
2. Using wire nuts, connect ground, neutral, and line inside the Wiring Compartment housing, then replace the cover.
3. Connect the EvenBalance Essential White Powercore Wiring Compartment to the first fixture in the series.



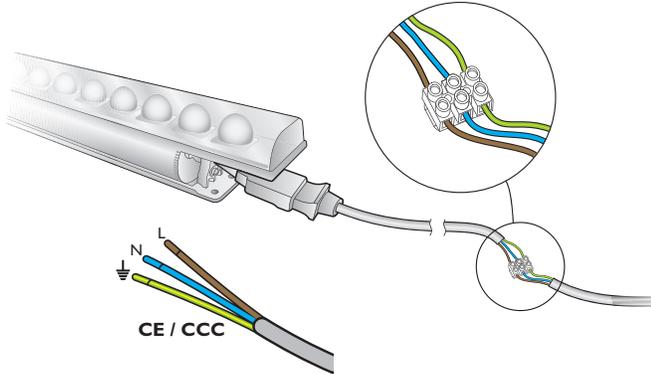
To connect the first fixture in a series to a third-party junction box using the 3 m (10 ft) Leader Cable (UL / cUL installations):

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



For CE / CCC installations:

1. 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.
2. Connect ground, neutral, and line to a power source.
3. Connect the 3 m (10 ft) Leader Cable to the first fixture in the series.

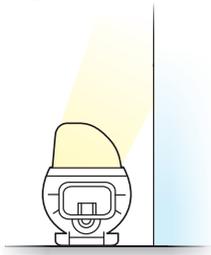


Aim and Lock the Fixtures

Make sure the power is ON before aiming fixtures.

When aiming a fixture in either application, make sure to apply the brightest spot at the top of the wall you are illuminating. When the brightest spot is aimed at the top of the wall it provides the highest illuminance and uniformity possible.

(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.

