



Date: \_\_\_\_\_ Type: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Project: \_\_\_\_\_

## SkyRibbon

### Essential White Wall Washing Powercore, 3500 K, 40° × 80° spread lens

Recessed linear interior LED wall washing fixture with solid white light

SkyRibbon Essential White Wall Washing Powercore is a recessed linear interior LED wall washing fixture offering high-quality, dimmable solid white light in four color temperatures, ranging from warm 2700 K to cool 4000 K. Brilliant light output and industry-leading color consistency make fixtures ideal for a variety of interior wall-washing applications. Users can rotate LED modules up to 90° to evenly wash walls top to bottom regardless of fixture setback. Multiple housing options accommodate a number of installation methods.

- Four color temperatures — Solid white light LED modules are available in 2700 K, 3000 K, 3500 K, and 4000 K color temperatures, supporting a broad selection of design objectives.
- High-quality illumination in a variety of beam angles — Native 20° × 20° beam angle. Holographic diffusion lenses offer additional 30° × 30°, 30° × 60°, 35° × 105°, 40° × 80°, 65° × 65°, 70° × 95°, and 90° × 90° beam angle options for design flexibility.
- Multiple housing options for installation and mounting flexibility — T-Bar, Slotted-T, Flanged, and Flangeless housings support numerous installation methods and appearances.
- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for an external power supply.

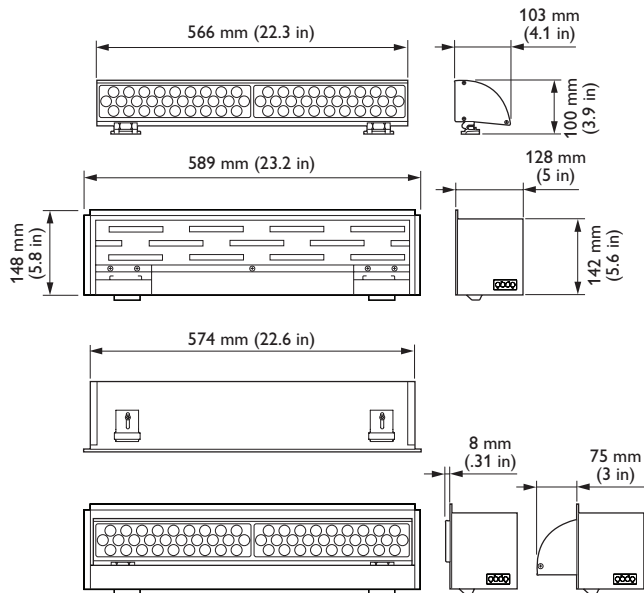
- Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.
- Optibin advanced binning algorithm — Exceeds the recognized standards for color quality to guarantee uniformity and color consistency across LED sources, fixtures, and manufacturing runs.
- Three voltage options — Available 120 VAC, 220 – 240 VAC, and 277 VAC fixtures ensure consistent operation in a number of major international regions.

For detailed product information, please refer to SkyRibbon Essential White Wall Washing Powercore Product Guide at [www.philipscolorkinetics.com/ls/ew/skyribbon-wall-washing/](http://www.philipscolorkinetics.com/ls/ew/skyribbon-wall-washing/)

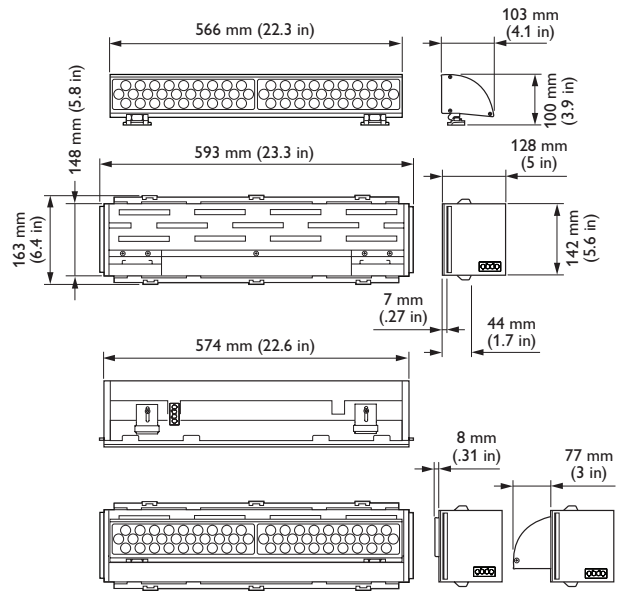
# PHILIPS

# CE Dimensional Diagrams

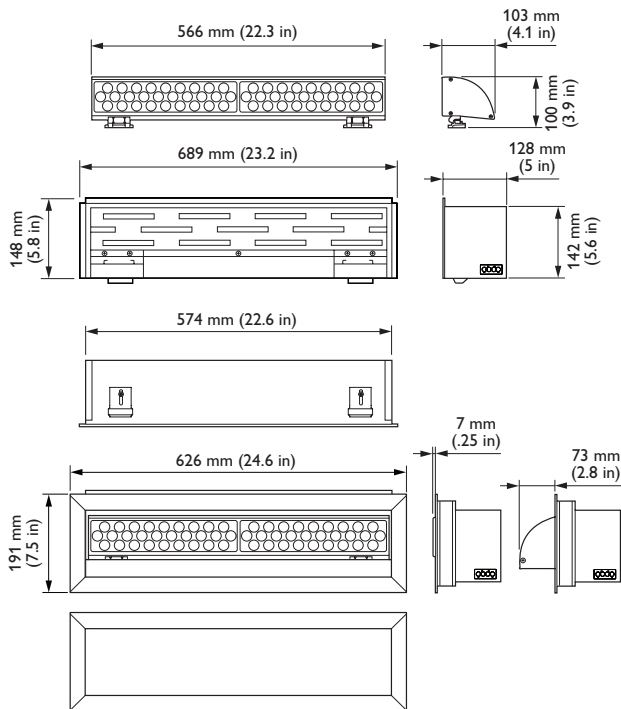
## SkyRibbon Wall Washing Powercore T-Bar Housing, 220 – 240 VAC



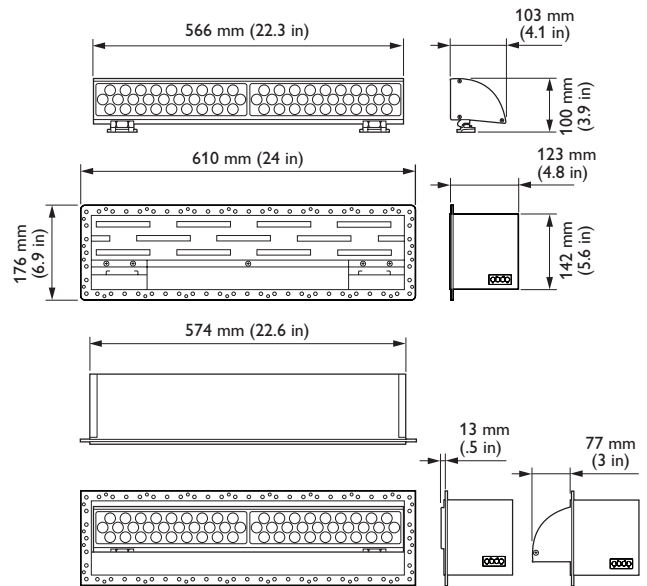
## SkyRibbon Wall Washing Powercore Slotted-T Housing, 220 – 240 VAC



## SkyRibbon Wall Washing Powercore Flanged Housing, 220 – 240 VAC

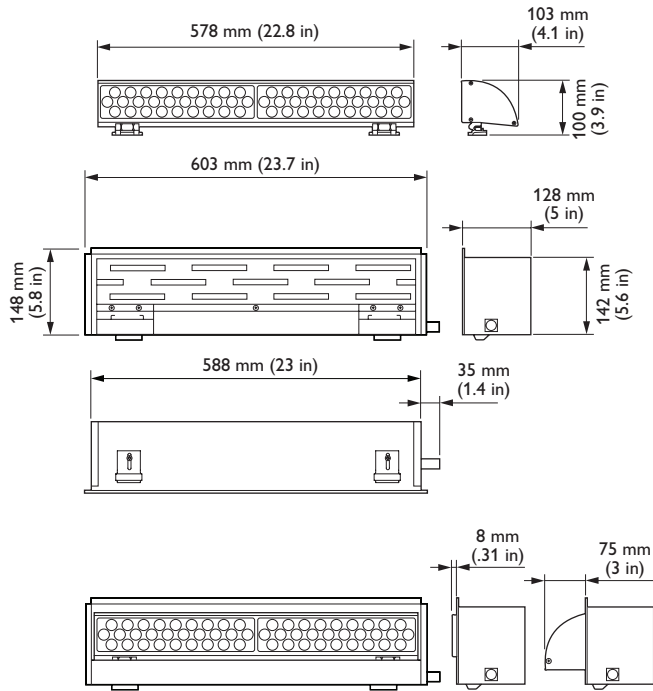


## SkyRibbon Wall Washing Powercore Flangeless Housing, 220 – 240 VAC

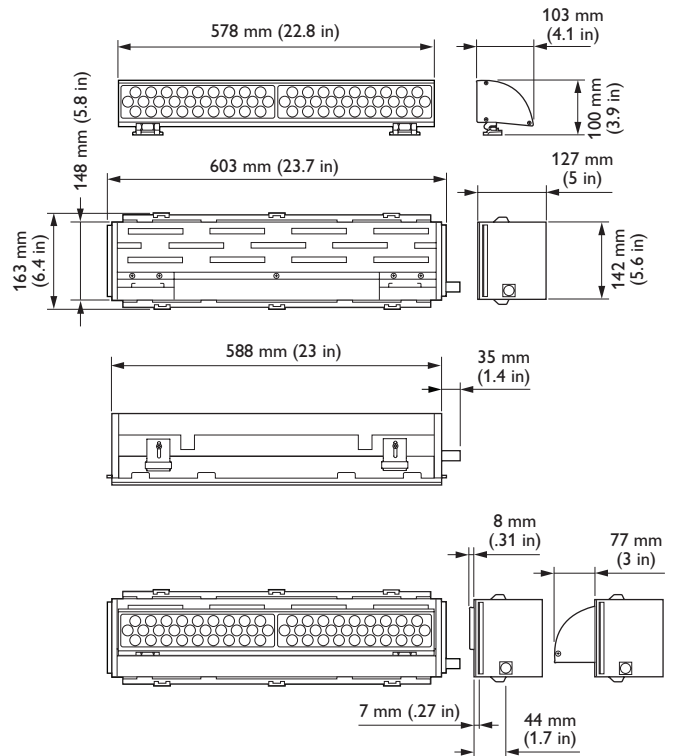


# UL Dimensional Diagrams

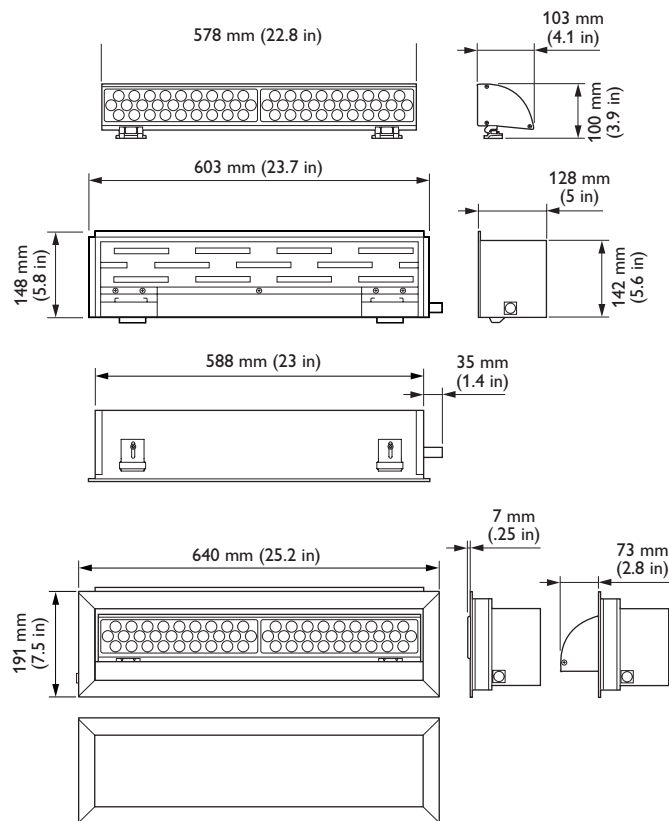
## SkyRibbon Wall Washing Powercore T-Bar Housing, 120 VAC / 277 VAC



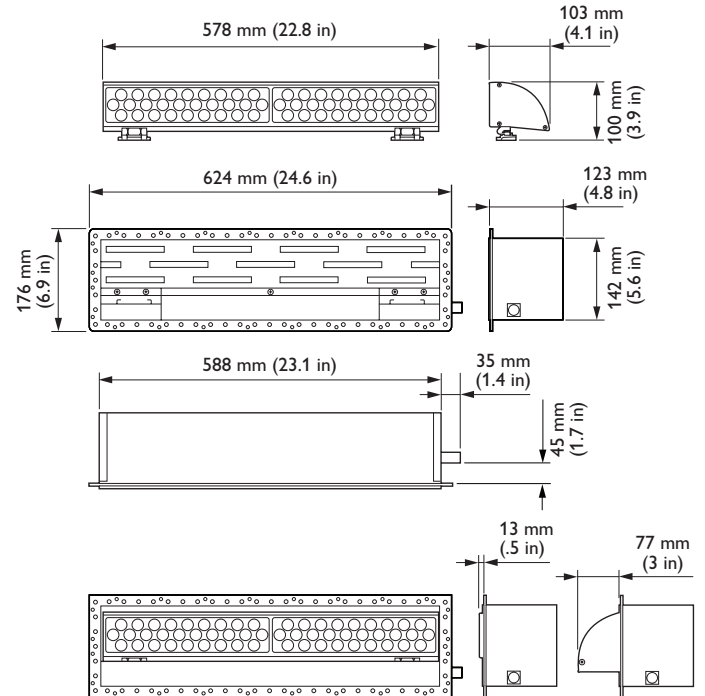
## SkyRibbon Wall Washing Powercore Slotted-T Housing, 120 VAC / 277 VAC



## SkyRibbon Wall Washing Powercore Flanged Housing, 120 VAC / 277 VAC



## SkyRibbon Wall Washing Powercore Flangeless Housing, 120 VAC / 277 VAC

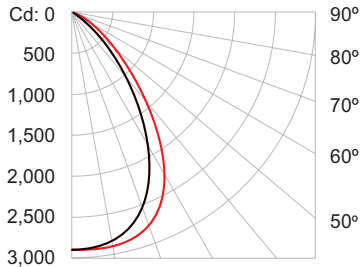


# Photometrics / SkyRibbon Essential White Wall Washing Powercore, 3500 K, 40° x 80° spread lens

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

| Lumens | Efficacy    |
|--------|-------------|
| 2933   | 43.6 lm / W |

## Polar Candela Distribution

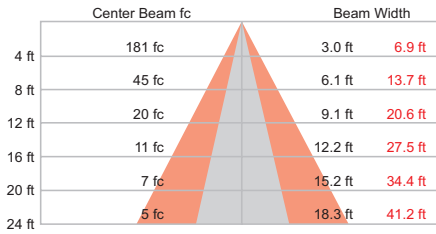


VA: 0° 10° 20° 30° 40°

■ - 0° H      ■ - 90° H

|    |      |      |      |      |      |
|----|------|------|------|------|------|
|    | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
| 0  | 2892 | 2892 | 2892 | 2892 | 2892 |
| 5  | 2771 | 2791 | 2826 | 2872 | 2901 |
| 15 | 2009 | 2116 | 2380 | 2690 | 2840 |
| 25 | 1033 | 1176 | 1603 | 2219 | 2557 |
| 35 | 383  | 471  | 813  | 1470 | 1923 |
| 45 | 127  | 159  | 312  | 728  | 1089 |
| 55 | 56   | 64   | 111  | 270  | 433  |
| 65 | 30   | 33   | 47   | 91   | 137  |
| 75 | 14   | 15   | 20   | 31   | 42   |
| 85 | 3    | 3    | 4    | 5    | 6    |
| 90 | 0    | 0    | 0    | 0    | 0    |

## Illuminance at Distance



54 ft (16.5 m)  
1 fc maximum distance

■ Vert. Spread: 41.7°  
■ Horiz. Spread: 81.3°

## 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  | 1191 | 191 | 191 | 119 | 1161 | 161 | 161 | 116 | 1111 | 111 | 111 | 1061 | 061 | 106 | 1021 | 021 | 102 | 100 |
| 1  | 1131 | 091 | 107 | 104 | 1101 | 071 | 105 | 102 | 1031 | 01  | 99  | 99   | 98  | 96  | 96   | 95  | 93  | 92  |
| 2  | 1061 | 09  | 96  | 92  | 104  | 99  | 94  | 91  | 95   | 92  | 89  | 92   | 89  | 87  | 90   | 87  | 85  | 83  |
| 3  | 100  | 92  | 87  | 82  | 98   | 91  | 86  | 82  | 88   | 84  | 80  | 86   | 82  | 79  | 83   | 80  | 78  | 76  |
| 4  | 94   | 85  | 79  | 74  | 92   | 84  | 78  | 74  | 82   | 77  | 73  | 80   | 75  | 72  | 78   | 74  | 71  | 69  |
| 5  | 88   | 79  | 72  | 68  | 87   | 78  | 72  | 67  | 76   | 71  | 67  | 74   | 70  | 66  | 73   | 69  | 65  | 64  |
| 6  | 83   | 73  | 67  | 62  | 82   | 73  | 66  | 62  | 71   | 65  | 61  | 70   | 65  | 61  | 68   | 64  | 60  | 59  |
| 7  | 79   | 68  | 62  | 57  | 77   | 68  | 61  | 57  | 66   | 61  | 57  | 65   | 60  | 56  | 64   | 59  | 56  | 54  |
| 8  | 75   | 64  | 57  | 53  | 73   | 63  | 57  | 53  | 62   | 57  | 52  | 61   | 56  | 52  | 60   | 55  | 52  | 50  |
| 9  | 71   | 60  | 54  | 49  | 69   | 59  | 53  | 49  | 58   | 53  | 49  | 58   | 52  | 49  | 57   | 52  | 48  | 47  |
| 10 | 67   | 56  | 50  | 46  | 66   | 56  | 50  | 46  | 55   | 50  | 46  | 54   | 49  | 46  | 54   | 49  | 45  | 44  |

## Zonal Lumen

| ZONE   | LUMENS | %FIXT |
|--------|--------|-------|
| 0- 30  | 1709   | 58.3  |
| 0- 40  | 2321   | 79.1  |
| 0- 60  | 2836   | 96.7  |
| 0- 90  | 2933   | 100.0 |
| 90-180 | 0      | 0.0   |
| 0-180  | 2933   | 100.0 |

For lux multiply fc by 10.7

# Specifications / SkyRibbon Essential White Wall Washing Powercore, 3500 K, 40° x 80° spread lens

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

| Item                     | Specification       | Details  |
|--------------------------|---------------------|--|
| Output                   | Lumens*             | 3053   |
|                          | Efficacy (lm / W)   | 45.6   |
|                          | CRI                 | 85   |
|                          | Power Factor        | .992 @ 120 VAC   |
|                          | Color Temperature†  | 3500 K   |
|                          | Lumen Maintenance‡  | 76,000 hours L70 @ 25° C 50,000 hours L70 @ 40° C<br>100,000 hours L50 @ 25° C 80,000 hours L50 @ 40° C  |
| Electrical               | Input Voltage       | 120 VAC, 220 – 240 VAC, 277 VAC, 50 / 60 Hz  |
|                          | Power Consumption   | 70 W maximum at full output, steady state  |
| Control                  | Dimming             | Compatible with selected commercially available reverse-phase ELV-type dimmers§  |
| Physical                 | Housing Material    | Steel, white powder-coated finish  |
|                          | Lens                | Polycarbonate  |
|                          | Fixture Connections | 7 in (178 mm) flying leads, integral male / female connectors (120 / 277 VAC)<br>Wieland integral male / female connectors (220 – 240 VAC)   |
|                          | Temperature Ranges  | -4° – 104° F (-20° – 40° C) Operating<br>-4° – 104° F (-20° – 40° C) Startup<br>-40° – 176° F (-40° – 80° C) Storage   |
|                          | Fixture Run Lengths | To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a> |
|                          | Humidity            | 0 – 95%, non-condensing  |
| Certification and Safety | Certification       | UL / cUL, CE, FCC Class A  |
|                          | Environment         | Dry / Damp Location, IP20  |

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

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

‡ 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](http://www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf) for more information.

§ Refer to [www.philipscolorkinetics.com/support/appnotes/](http://www.philipscolorkinetics.com/support/appnotes/) for specific details.



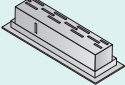
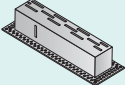
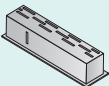
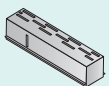
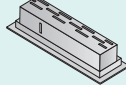
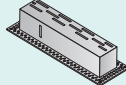
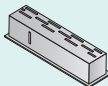
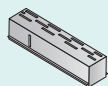




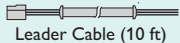
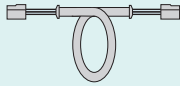
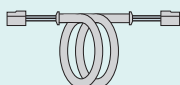
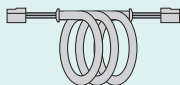
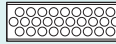
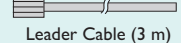
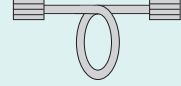
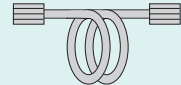
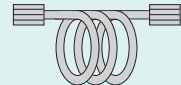
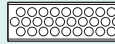
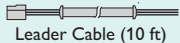
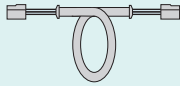
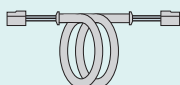
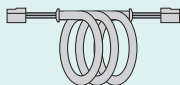
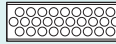
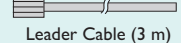
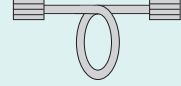
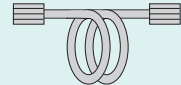
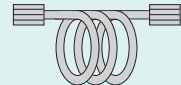
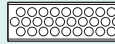
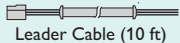
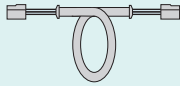
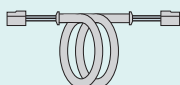
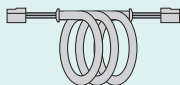
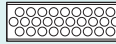
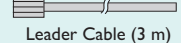
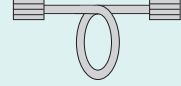
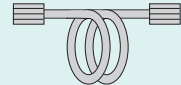
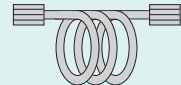
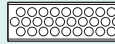
## Dimensions and Weight

| Fixture           |  | Flanged            | Flangeless          | T-Bar              | Slotted-T          |
|-------------------|--|--------------------|---------------------|--------------------|--------------------|
| 120 VAC / 277 VAC | Housing Dimensions<br>(Height x Width x Depth) | 5.8 x 23.7 x 5 in  | 6.9 x 24.6 x 4.8 in | 5.8 x 23.7 x 5 in  | 6.4 x 23.7 x 5 in  |
|                   | Assembled Weight†                              | 10.4 lbs           | 8.6 lbs             | 8.6 lbs            | 8.6 lbs            |
| 220 – 240 VAC     | Housing Dimensions<br>(Height x Width x Depth) | 148 x 689 x 128 mm | 176 x 610 x 123 mm  | 148 x 589 x 128 mm | 163 x 593 x 128 mm |
|                   | Assembled Weight†                              | 4.7 kg             | 3.9 kg              | 3.9 kg             | 3.9 kg             |

† Assembled weight includes fixture housing and LED module.

# Product Selection

To order a complete SkyRibbon Essential White Wall Washing Powercore fixture, choose a housing (voltage, length, and type), an LED module, a spread lens, a Leader Cable, and optional Jumper Cables and louvers.

| 1 Choose housing type   | 2 Choose LED module   | 3 Choose optional spread lens   | 4 Choose accessories   |  |   |   |
|---|---|---|--|--|---|---|
| <p><b>120 VAC or 277 VAC</b></p>  <p>Flanged (2 ft)</p>  <p>Flangeless (2 ft)</p>  <p>T-Bar (2 ft)</p>  <p>Slot-T (2 ft)</p>  | <p><b>220 – 240 VAC</b></p>  <p>Flanged (600 mm)</p>  <p>Flangeless (600 mm)</p>  <p>T-Bar (600 mm)</p>  <p>Slot-T (600 mm)</p>   |  <p>2700 K<br/>2 ft or 600 mm</p>  <p>3000 K<br/>2 ft or 600 mm</p>  <p>3500 K<br/>2 ft or 600 mm</p>  <p>4000 K<br/>2 ft or 600 mm</p> | <table border="0"> <tr> <td data-bbox="1073 323 1295 930"> <p><b>120 VAC / 277 VAC</b></p>  <p>Leader Cable (10 ft)</p>  <p>Jumper Cable (1 ft)</p>  <p>Jumper Cable (4 ft)</p>  <p>Jumper Cable (8 ft)</p>  <p>Louver (2 ft)</p> </td> <td data-bbox="1295 323 1523 930"> <p><b>220 – 240 VAC</b></p>  <p>Leader Cable (3 m)</p>  <p>Jumper Cable (0.9 m)</p>  <p>Jumper Cable (1.4 m)</p>  <p>Jumper Cable (1.7 m)</p>  <p>Louver (600 m)</p> </td> </tr> </table> |  | <p><b>120 VAC / 277 VAC</b></p>  <p>Leader Cable (10 ft)</p>  <p>Jumper Cable (1 ft)</p>  <p>Jumper Cable (4 ft)</p>  <p>Jumper Cable (8 ft)</p>  <p>Louver (2 ft)</p> | <p><b>220 – 240 VAC</b></p>  <p>Leader Cable (3 m)</p>  <p>Jumper Cable (0.9 m)</p>  <p>Jumper Cable (1.4 m)</p>  <p>Jumper Cable (1.7 m)</p>  <p>Louver (600 m)</p> |
| <p><b>120 VAC / 277 VAC</b></p>  <p>Leader Cable (10 ft)</p>  <p>Jumper Cable (1 ft)</p>  <p>Jumper Cable (4 ft)</p>  <p>Jumper Cable (8 ft)</p>  <p>Louver (2 ft)</p> | <p><b>220 – 240 VAC</b></p>  <p>Leader Cable (3 m)</p>  <p>Jumper Cable (0.9 m)</p>  <p>Jumper Cable (1.4 m)</p>  <p>Jumper Cable (1.7 m)</p>  <p>Louver (600 m)</p> |   |  |  |   |   |
|   |   |   | <p>30° x 30°</p> <p>30° x 60°</p> <p>35° x 105°</p> <p>40° x 80°</p> <p>65° x 65°</p> <p>70° x 95°</p> <p>90° x 90°</p>  |  |   |   |

For 220—240 VAC installations, you must use leader and jumper cables.

For 120 / 277 VAC installations, you can either use leader and jumper cables or hardwire the fixtures. When hardwiring, the fixture acts as a junction box.

## 2 ft / 120 VAC or 277 VAC

| Item     | Voltage | Type                            | Item Number                        | Philips 12NC                      |
|----------|---------|---------------------------------|------------------------------------|-----------------------------------|
| Housings | 120 VAC | T-Bar                           | 172-000072-00                      | 910503703213                      |
|          |         | Slotted-T                       | 172-000072-12                      | 910503704284                      |
|          |         | Flanged<br>(fixture and flange) | 172-000072-00 and<br>120-000172-14 | 910503703213 and<br>120-000172-09 |
|          |         | Flangeless                      | 172-000072-01                      | 910503703214                      |
|          | 277 VAC | T-Bar                           | 172-000072-04                      | 910503704245                      |
|          |         | Slotted-T                       | 172-000072-14                      | 910503704245                      |
|          |         | Flanged<br>(fixture and flange) | 172-000072-04 and<br>120-000172-14 | 910503704245 and<br>120-000172-09 |
|          |         | Flangeless                      | 172-000072-05                      | 910503704246                      |

| Item        | Color Temperature | Item Number   | Philips 12NC |
|-------------|-------------------|---------------|--------------|
| LED Modules | 2700 K            | 523-000072-00 | 910503702648 |
|             | 3000 K            | 523-000072-01 | 910503702649 |
|             | 3500 K            | 523-000072-02 | 910503702650 |
|             | 4000 K            | 523-000072-03 | 910503702651 |

| Item          | Beam Angle | Item Number   | Philips 12NC |
|---------------|------------|---------------|--------------|
| Spread Lenses | 30° x 30°  | 120-000172-01 | 910503702691 |
|               | 30° x 60°  | 120-000172-02 | 910503702692 |
|               | 35° x 105° | 120-000172-03 | 910503702693 |
|               | 40° x 80°  | 120-000172-04 | 910503702694 |
|               | 65° x 65°  | 120-000172-06 | 910503702696 |
|               | 70° x 95°  | 120-000172-07 | 910503702697 |
|               | 90° x 90°  | 120-000172-08 | 910503702698 |

Use Item Number when ordering in North America.

## Product Selection (continued)

| Item                         |              | Length | Item Number   | Philips 12NC |
|------------------------------|--------------|--------|---------------|--------------|
| Leader Cable and Accessories | Leader Cable | 10 ft  | 108-000072-03 | 910503703135 |
|                              | Jumper Cable | 1 ft   | 108-000072-00 | 910503702835 |
|                              |              | 4 ft   | 108-000072-01 | 910503702836 |
|                              |              | 8 ft   | 108-000072-02 | 910503702837 |
|                              | Louver       |        | 120-000172-00 | 910503702690 |

Use Item Number when ordering in North America.

## 600 mm / 220 – 240 VAC

| Item     | Type                            | Item Number                        | Philips 12NC                     |
|----------|---------------------------------|------------------------------------|----------------------------------|
| Housings | T-Bar                           | 172-000072-08                      | 910503704262                     |
|          | Slotted-T                       | 172-000072-16                      | 910503704631                     |
|          | Flanged<br>(fixture and flange) | 172-000072-08 and<br>120-000172-10 | 910503704263 and<br>910503704271 |
|          |                                 | Flangeless                         | 172-000072-18                    |

| Item        | Color Temperature | Item Number   | Philips 12NC |
|-------------|-------------------|---------------|--------------|
| LED Modules | 2700 K            | 523-000072-04 | 910503704258 |
|             | 3000 K            | 523-000072-05 | 910503704259 |
|             | 3500 K            | 523-000072-06 | 910503704260 |
|             | 4000 K            | 523-000072-07 | 910503704261 |

| Item          | Beam Angle | Item Number   | Philips 12NC |
|---------------|------------|---------------|--------------|
| Spread Lenses | 30° x 30°  | 120-000161-01 | 910503704213 |
|               | 30° x 60°  | 120-000161-02 | 910503704214 |
|               | 35° x 105° | 120-000161-03 | 910503704215 |
|               | 40° x 80°  | 120-000161-04 | 910503704216 |
|               | 65° x 65°  | 120-000161-06 | 910503704218 |
|               | 70° x 95°  | 120-000161-07 | 910503704219 |
|               | 90° x 90°  | 120-000161-08 | 910503704220 |

| Item                         |              | Length | Item Number   | Philips 12NC |
|------------------------------|--------------|--------|---------------|--------------|
| Leader Cable and Accessories | Leader Cable | 3 m    | 108-000072-13 | 910503705047 |
|                              | Jumper Cable | 0.9 m  | 108-000072-15 | 910503705049 |
|                              |              | 1.4 m  | 108-000072-16 | 910503705050 |
|                              |              | 1.7 m  | 108-000072-17 | 910503705051 |
|                              | Louver       |        | 120-000161-00 | 910503704249 |

Use Item Number when ordering in North America.



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