



Spec Guide

ZipThree® | Ceiling Cable | 707



Direct/indirect lighting for ambient, open office and conference room applications.



ZipThree, Symmetric with EdgeGlow, Uplight

Benefits & Features

Micro Profile, Robust Design

Flat profile, 0.35" (9mm) x 3.78" (96mm)

Superior Light Quality & Performance

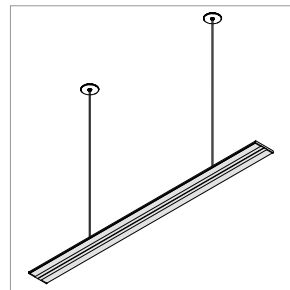
Outputs up to: 3154 lm/ft (10,349 lm/m), 130 lm/W (SO). 90 CRI & tunable white (2200K-6500K) available.

Remote Power with Independent Channel Control

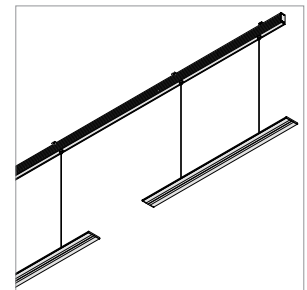
Power may be located up to 72' (22m) away. Direct/indirect circuits may be independently controlled.

A Floating Line of Light with EdgeGlow™ and Multiple Optics.

A wide variety of optics available for direct and indirect applications. Optional EdgeGlow™ for edge-lit detail.



Small Round Canopy



Multiple Fixtures with Integral Bus

Build Your Specification

| | | | |
|---------------|--|--|--------------|
| 707-Z3 | | | CC >> |
|---------------|--|--|--------------|

| System & Rail Type | System Type | System Length | Rail Length | Mounting |
|--------------------|---|--|---|-------------------------|
| 707-Z3 ZipThree | SF Single Fixture MF Multiple Fixtures with Integral Bus | Single Fixture 2 2' (610mm) ¹ 3 3' (914mm) ¹ 4 4' (1219mm) 5 5' (1524mm) 6 6' (1829mm) 8 8' (2438mm) ZZ Other rail length or layout (please specify) Multiple Fixtures with Integral Bus Specify overall system length in ft/in or M/mm. | Single Fixture 24 24" (610mm) ¹ 36 36" (914mm) ¹ 48 48" (1219mm) 60 60" (1524mm) 72 72" (1829mm) 96 96" (2438mm) ZZ Other rail length or layout (please specify) Multiple Fixtures with Integral Bus SC SubCode (please specify below) See page 7 for more details. <i>See Rail Length Chart for more details.</i> ▲ Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details. | CC Ceiling Cable |

| | | | |
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| >> | | | >> |
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| Cord Length | Power Location | Power Type | Voltage |
|--|---|---|---|
| 48 48" cord (1219mm) 96 96" cord (2438mm) ZZ Other (please specify) | Remote Power Specify mounting and harness length code example: 2R25 , 2R50 ...etc. Mounting Option 2R Small Round Canopy Wire Harness 10 10' (3.048m) Wire Harness 25 25' (7.62m) Wire Harness 50 50' (15.24m) Wire Harness 75 75' (22.86m) Wire Harness 100 100' (30.48m) Wire Harness | Flexible 1 to 1 Power AE 0-10V, 1.0% Dimming AT 0-10V, 0.1% Dimming AD DALI, 0.1% Dimming AX DMX, 100-0% Dimming AH Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE ¹ AH2 ELV 1% 2-wire (Forward and Reverse Phase) Optimized Power Add 'O' to power type example: AEO, ATO...etc. ² VodeNODE Add 'N' to power type for Flexible 1 to 1 Power Add 'ON' to power type for Optimized Power example: AEN, ATN, AEON, ADON...etc. ³ ZZ Other (please specify) <i>See Power Guide for driver features & limitations.</i> | 1 120V 2 120V - 277V X Not Yet Specified |

| | | | |
|----|----------|--|----|
| >> | Z | | >> |
|----|----------|--|----|

| Emergency Power | LED Type | Lumen Output | Color Temperature | Optics |
|---|-----------------------|--|--|--|
| 0 No Emergency ZZ Power Emergency Power (specify requirements) | Z Zipper Board | LO Low Output SO Standard Output HO High Output ⁴ ZZ Other (please specify) <i>See IES Files page for details.</i> <i>See Power Guide for driver features & limitations.</i> | 90+ CRI 27 2700K 30 3000K 35 3500K 40 4000K ZZ Tunable White Available See Guide for details | U1S1 Symmetric, up 40° Symmetric, down U1S2 Symmetric, up 60° Symmetric, down U1S7 Symmetric, up 80° Symmetric, down U1D2 Symmetric, up Soft Diffuse, down U2S1 Symmetric with EdgeGlow, up 40° Symmetric, down U2S2 Symmetric with EdgeGlow, up 60° Symmetric, down U2S7 Symmetric with EdgeGlow, up 80° Symmetric, down U2D2 Symmetric with EdgeGlow, up Soft Diffuse, down |

| | | | |
|----|--|--|--|
| >> | | | |
|----|--|--|--|

| Sensors | Finish | Options |
|--|---|---|
| 0 None ZZ Sensor (specify requirements) | AL Clear Anodized WH White Painted BL Black Anodized | 0 None EF End Feed Kit ⁴ 9 9' 18/3 Cord and Plug ⁵ |

NOTES & LIMITATIONS

- ¹ 24" & 36" fixtures available in remote power only.
- ² Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.
- ³ VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.
- ⁴ Provides input/output through end of integral bus. Integral Power (IP) only.
- ⁵ 9' 18/3 Cord and Plug only available with Remote Power (RP)

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.



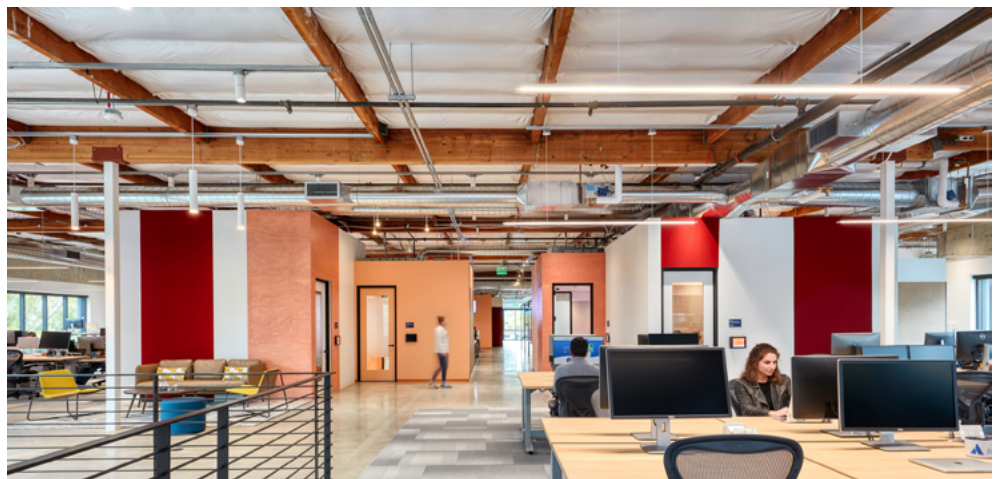
Standard 5 Year Limited Warranty. See details [here](#). Contact factory for options on Limited Warranties up to 20 years.

Applications

General Interior and Open Office



Atlassian, Mountain View, CA




Atlassian, Mountain View, CA

Declare Label

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.

See [International Living Future Institute](https://www.living-future.org) website for details.



Vode Adaptive Architectural Lighting Systems
Vode Lighting LLC

Final Assembly: Sonoma, California, US
Life Expectancy: 10+ Year(s)
End of Life Options: Recyclable (100%)

Ingredients:

Anodized Aluminum (6063-T5 Alloy); Steel; Small Electrical Component (RoHS)¹; Copper; **Fluorinated Ethylene Propylene (masterbatch)**²; Polymethyl methacrylate (PMMA); Stainless Steel; Polyoxymethylene Copolymer (POM); Styrene-butadiene polymer, hydrogenated; Poly(methyl methacrylate/butyl acrylate/styrene) (PMMA/BA/S); Styrene/butadiene copolymer; Distillates; Polypropylene; Calcium carbonate; Polycarbonate; EVA Copolymer; Methyl methacrylate (MMA); Polyphenylene Oxide; Brass; Tin, Organic

¹LBC Temp Exception RL-002 - Small Electrical Components
²LBC Temp Exception RL-023 - Wire Sheathing Subject to NFPA 90A, NFPA 262, UL® 910

Living Building Challenge Criteria: Compliant

I-13 Red List:

| | |
|---|-----------------------------|
| <input type="checkbox"/> LBC Red List Free | % Disclosed: 100% at 100ppm |
| <input checked="" type="checkbox"/> LBC Red List Approved | VOC Content: Not Applicable |
| <input type="checkbox"/> Declared | |

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

VDE-0001
 EXP. 01 JAN 2025
 Original Issue Date: 2018

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
 INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare



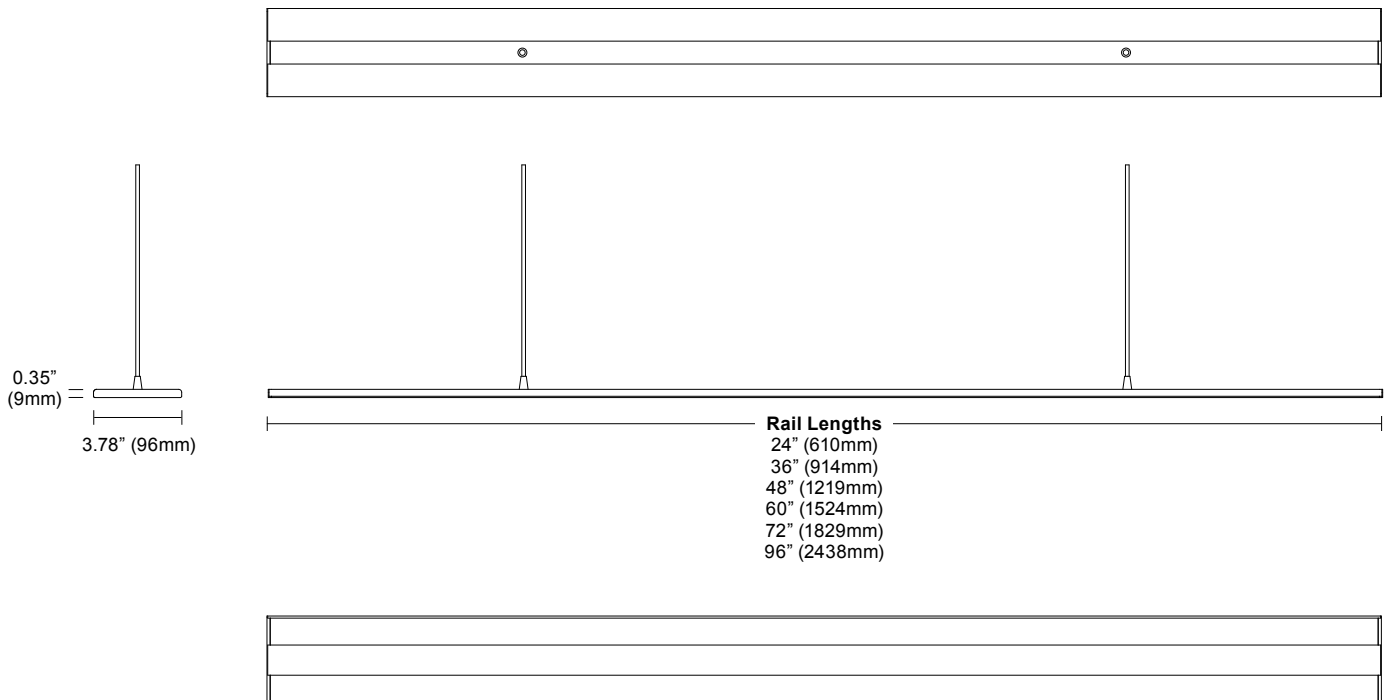
Structure

| | |
|-----------------------|---|
| Rail Lengths | 24" (610mm) - 96" (2438mm). Modified lengths available. See Rail Length Chart for more details. |
| Rail Dimensions | Rectangular profile, 0.35" (9mm) x 3.78" (96mm) x length. |
| Construction | Extruded and machined 6063 aluminum. |
| Mounting | Ceiling mount to jbox or integral bus. |
| System Run Length | 24" (610mm) minimum. Unlimited maximum. |
| Operating Temperature | 32°F to 95°F (0°C to 35°C). |
| Humidity | 0-85%, non-condensing. |
| System Weight | 0.65 lbs per ft (0.29kg per 305mm). Power supply and housing not included. |

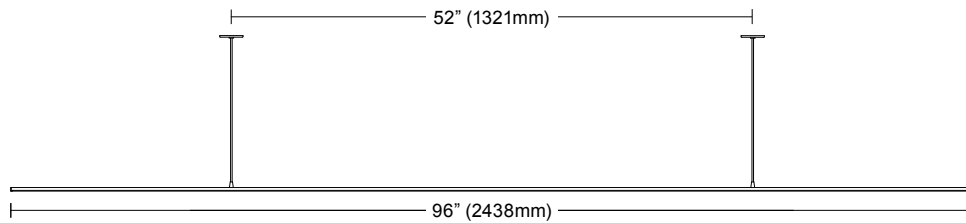
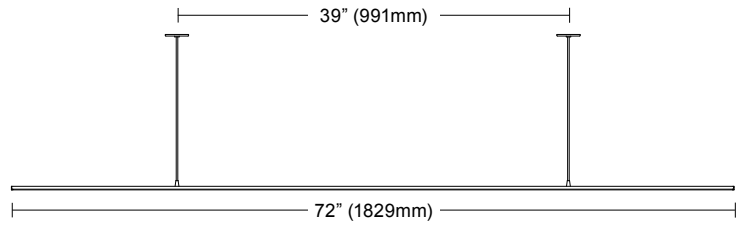
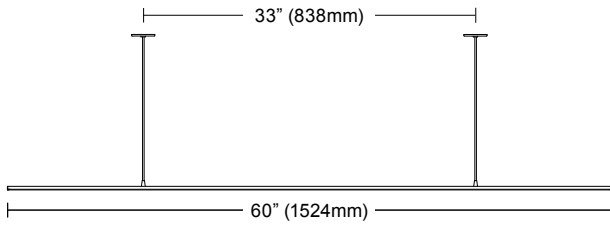
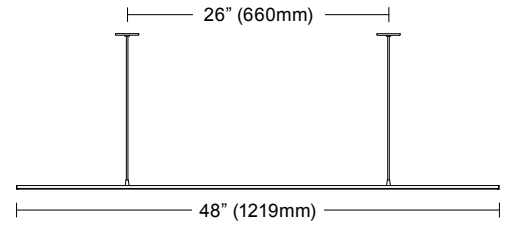
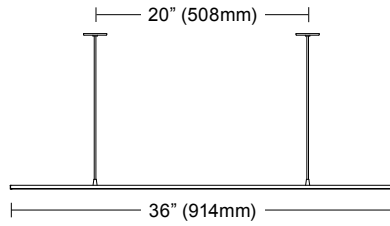
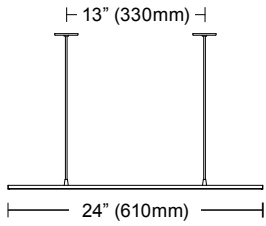
Materials

| | |
|-----------------------------------|--|
| LED Board Construction | Aluminum core PCB, LCP connectors, RoHS compliant. |
| Lenses | High impact extruded acrylic glass (PMMA). |
| Suspension Cables | Ø4mm, 24/4 AWG, PVC or TPE and RoHS compliant (<i>PVC free in 2020</i>) |
| Power Cables | 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 (<i>PVC free in 2020</i>) |
| Cable Connectors | Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant (<i>PVC free in 2020</i>) |
| Remote Linear Power Housing (RLP) | 20.7" x 2.375" x 2.53", 0.054" formed Galvanized Steel |
| Remote Brick Power Housing (RBP) | 4.32" x 3.37" x .078" Galvanized Steel mounting plate |
| Integral Bus Housing | 2.75"x1.4", extruded and machined 6063 aluminum. |

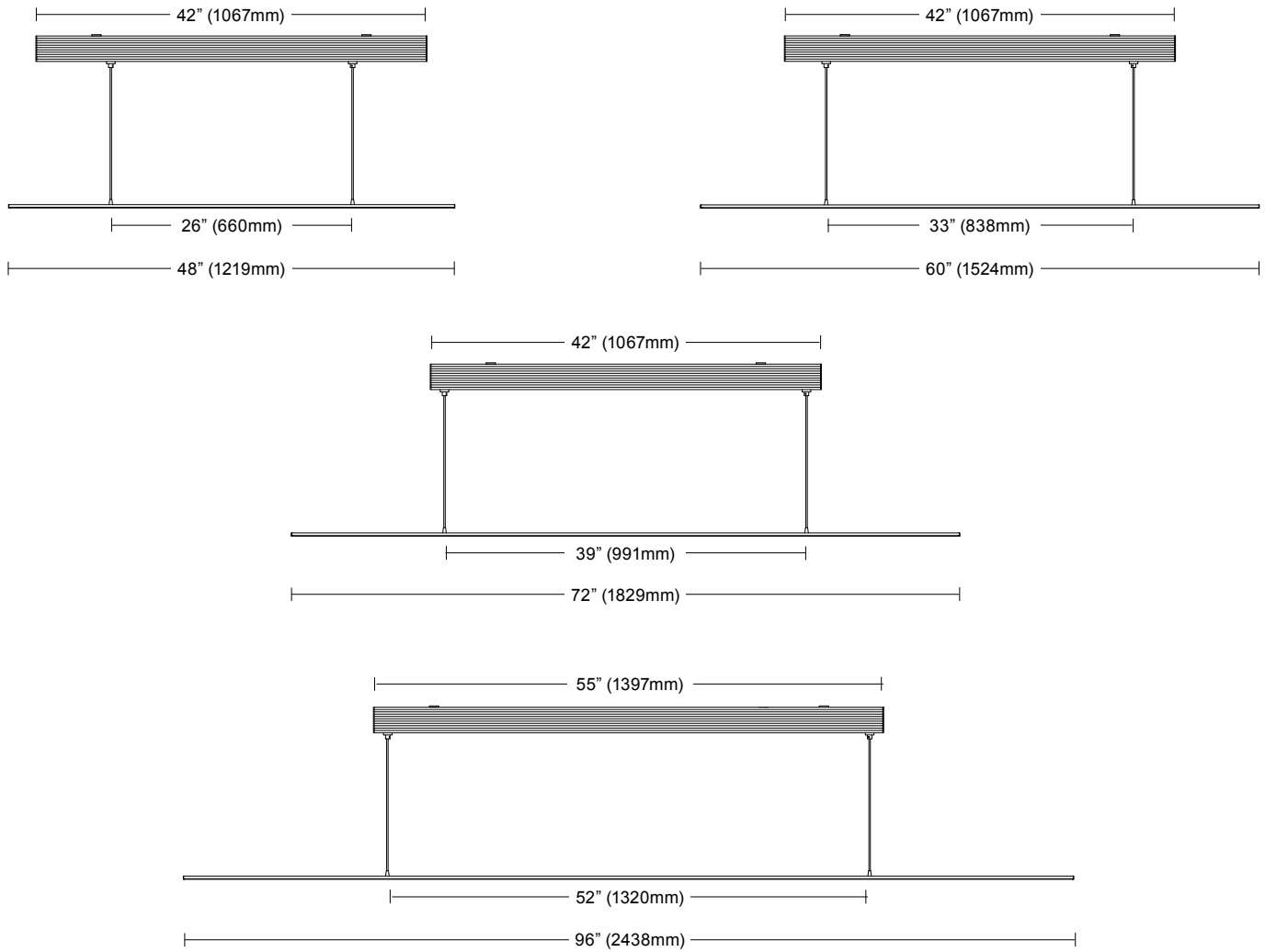
Dimensions



Remote Power Layout



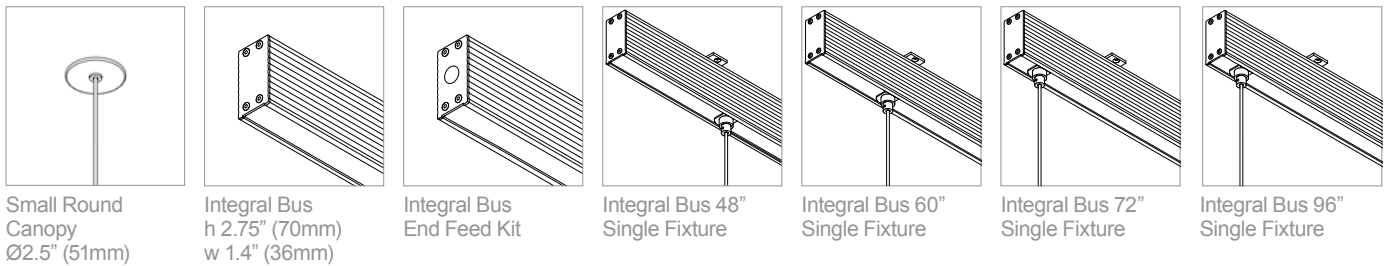
Integral Power Layout



NOTES & LIMITATIONS

24" & 36" fixtures available in remote power only.

Mounting Options



Specifying Multiple Fixtures with Integral Bus

The Integral Bus system is a single, linear enclosure that houses all drivers and electrical connections for multiple suspended ZipThree fixtures. It attaches directly to a concrete, wood or drywall ceiling. Multiple fixtures can be installed quickly and precisely with a single line voltage feed through the top or end cap. The Integral Bus system typically runs the entire length of the fixtures and gaps, however a longer bus may be specified, if desired. Maximum length of individual Bus sections is 12' (3658mm). Please specify shorter lengths, if desired.

How to Specify:

- System Type:** select "Multiple Fixtures with Integral Bus" (MF).
- Overall System Length:** specify the total length of all rails and gaps. Vode recommends a minimum 6" gap between rails. Standard gap lengths are in 6" increments.
- Rail Length:** select "SubCode" (SC). In the SubCode field, specify the length of each rail and gap. Use the prefix "G" to specify gaps.
- Options:** select "End Feed Kit" (EF) for end feed installations.

Example 1:

Overall System Length: 24'

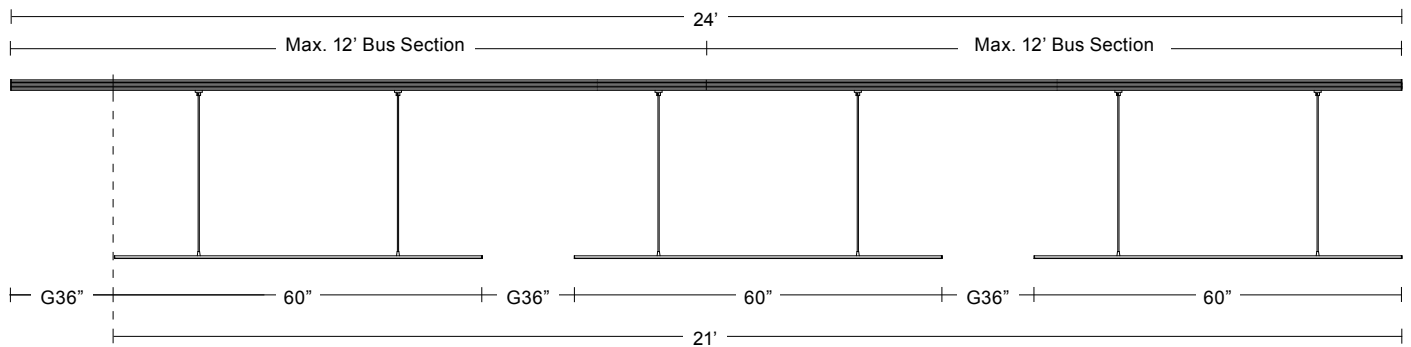
Rail Length SubCode: G36", 60", G36", 60", G36", 60"

Example 2:

Overall System Length: 21'

Rail Length SubCode: 60", G36", 60", G36", 60"

NOTE: total length of all rails and gaps must be equal to or less than "Overall System Length". Integral Bus system may start and/or end with a gap, if desired.

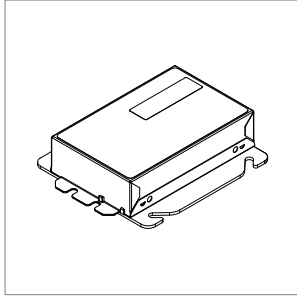


Power and Controls

| | |
|------------------|--|
| Power Type | Class 2 (<60V output) constant current driver |
| Dimming Controls | Dimming (0.1%, 1%), 0-10V, DALI, DMX, Hi-lume 1% are available. See Power Guide for details. |
| Input Voltage | 120V - 277V, 50/60hz |
| Power Location | Integral or remote power. Maximum remote distance up to 100' (30.5m) depending on driver selection. See Power Guide for details. |

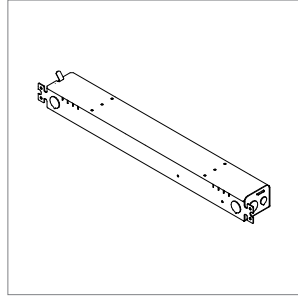
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the power supply into the lighting fixture or mounting.

Remote Brick Power Housing



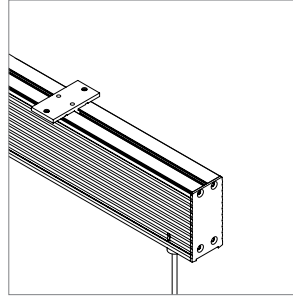
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



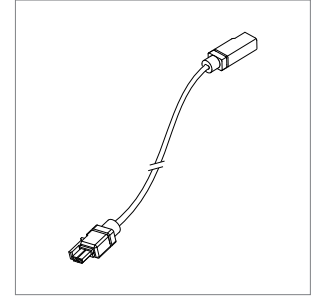
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

Integral Power



Houses integral power supply. Mounts to most surfaces. Blocking or engineered anchors required. See [Tech Sheet](#) for details.

Wire Harness

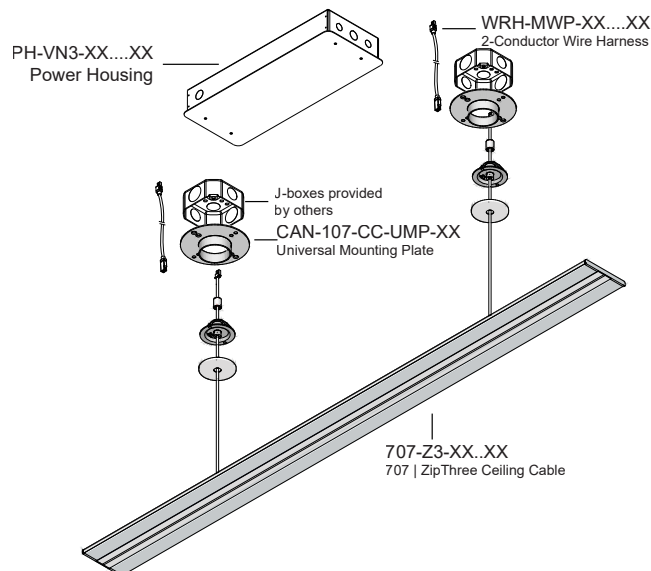


Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#) to determine which type you will receive.



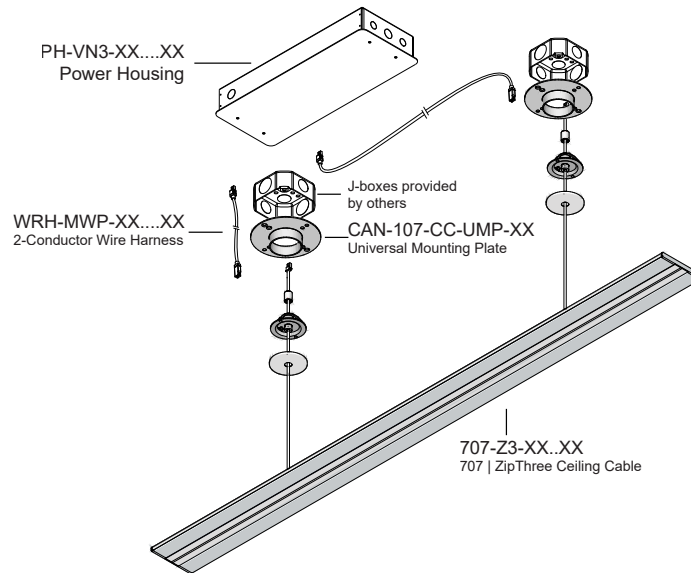
Note: Drawings not to scale, for reference only.

Power and Controls

Optimized Power

To optimize power, Vode configures specifications with drivers that have 2 or 4 outputs. Depending on system configurations and power requirements, up to 4 fixtures can be powered from a 4-output driver. Consult [Power Guide](#) to determine which type you will receive.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below.



Note: Drawings not to scale, for reference only.

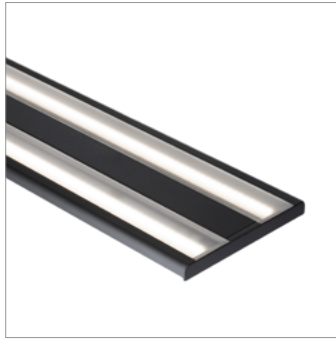
Finish

Clear Anodized Finish



Clear Anodized Rail, White Canopy or Clear Anodized Integral Bus, Clear Cable

Black Anodized Finish



Black Rail, Black Canopy or Integral Bus, Black Cable

White Painted Finish

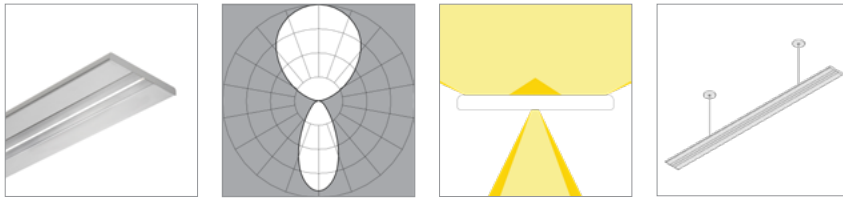


White Rail, White Canopy or Integral Bus, White Cable

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

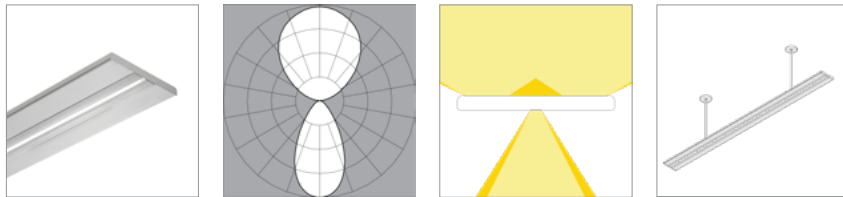
Symmetric, up | 40° Symmetric, down (U1S1)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 91 | 94 | 96 | 96 | 79 | 81 | 83 | 84 |
| Lumens per foot (305mm) | 675 | 697 | 711 | 711 | 582 | 601 | 613 | 619 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 104 | 107 | 109 | 109 | 90 | 92 | 95 | 95 |
| Lumens per foot (305mm) | 1351 | 1393 | 1422 | 1442 | 1165 | 1201 | 1226 | 1238 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.1 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 96 | 99 | 101 | 101 | 83 | 85 | 87 | 88 |
| Lumens per foot (305mm) | 2567 | 2648 | 2702 | 2702 | 2213 | 2282 | 2329 | 2352 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric, up | 60° Symmetric, down (U1S2)



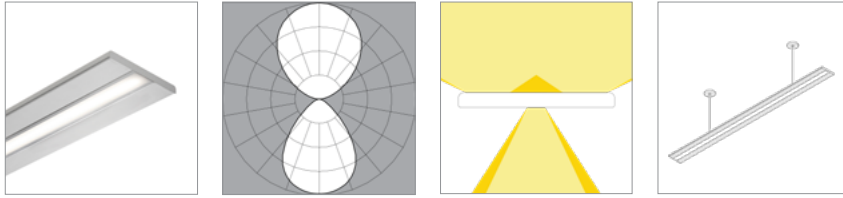
L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 105 | 108 | 110 | 110 | 91 | 93 | 95 | 99 |
| Lumens per foot (305mm) | 777 | 802 | 818 | 818 | 670 | 691 | 705 | 712 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 120 | 123 | 126 | 126 | 104 | 107 | 109 | 113 |
| Lumens per foot (305mm) | 1555 | 1604 | 1636 | 1636 | 1340 | 1382 | 1411 | 1425 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 110 | 114 | 116 | 116 | 95 | 98 | 100 | 104 |
| Lumens per foot (305mm) | 2954 | 3047 | 3109 | 3109 | 2546 | 2627 | 2680 | 2707 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

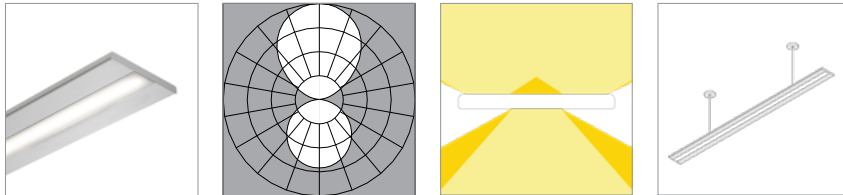
Symmetric, up | 80° Symmetric, down (U1S7)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 110 | 113 | 116 | 116 | 95 | 98 | 100 | 104 |
| Lumens per foot (305mm) | 815 | 841 | 858 | 858 | 703 | 725 | 740 | 747 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 125 | 129 | 132 | 132 | 109 | 113 | 115 | 120 |
| Lumens per foot (305mm) | 1630 | 1682 | 1716 | 1716 | 1405 | 1450 | 1479 | 1494 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 116 | 119 | 122 | 122 | 100 | 103 | 105 | 109 |
| Lumens per foot (305mm) | 3097 | 3195 | 3260 | 3260 | 2670 | 2754 | 2810 | 2839 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric, up | Soft Diffuse, down (U1D2)



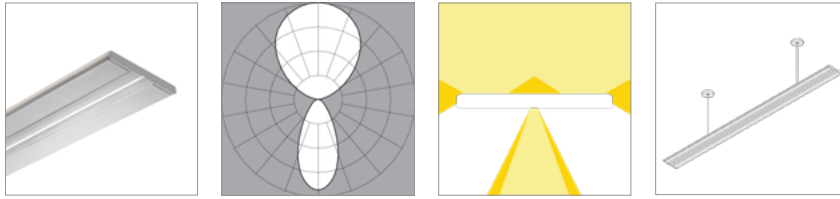
L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 114 | 118 | 120 | 120 | 99 | 102 | 104 | 105 |
| Lumens per foot (305mm) | 847 | 874 | 892 | 892 | 730 | 753 | 769 | 776 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 130 | 134 | 137 | 137 | 122 | 116 | 119 | 119 |
| Lumens per foot (305mm) | 1694 | 1748 | 1783 | 1783 | 1461 | 1507 | 1537 | 1553 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.1 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 120 | 124 | 126 | 126 | 104 | 107 | 109 | 110 |
| Lumens per foot (305mm) | 3219 | 3321 | 3388 | 3388 | 2775 | 2863 | 2921 | 2950 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

Symmetric with EdgeGlow, up | 40° Symmetric, down (U2S1)



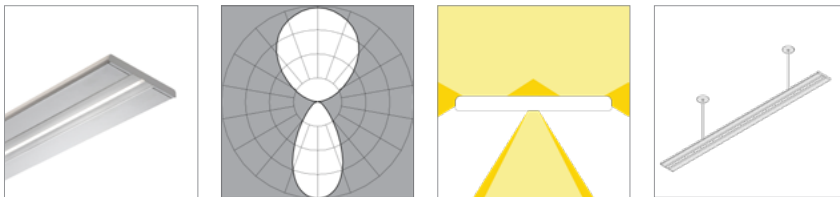
L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 94 | 97 | 99 | 99 | 81 | 83 | 85 | 88 |
| Lumens per foot (305mm) | 693 | 715 | 730 | 730 | 598 | 616 | 629 | 635 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |

| | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 107 | 110 | 112 | 112 | 93 | 96 | 98 | 102 |
| Lumens per foot (305mm) | 1386 | 1430 | 1459 | 1459 | 1195 | 1233 | 1258 | 1271 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |

| | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 98 | 101 | 104 | 104 | 85 | 88 | 89 | 93 |
| Lumens per foot (305mm) | 2634 | 2717 | 2773 | 2733 | 2271 | 2342 | 2390 | 2414 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric with EdgeGlow, up | 60° Symmetric, down (U2S2)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 107 | 110 | 112 | 112 | 92 | 95 | 97 | 101 |
| Lumens per foot (305mm) | 792 | 817 | 833 | 833 | 683 | 704 | 718 | 726 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |

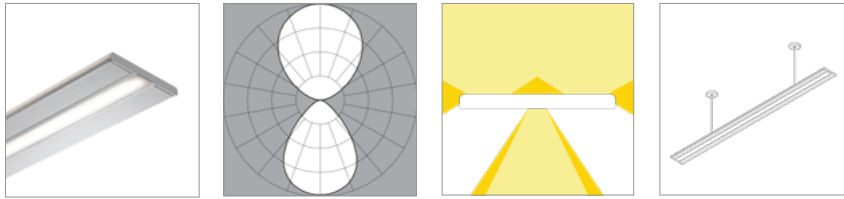
| | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 122 | 126 | 128 | 128 | 106 | 109 | 111 | 115 |
| Lumens per foot (305mm) | 1583 | 1633 | 1667 | 1667 | 1365 | 1408 | 1437 | 1451 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |

| | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 112 | 116 | 118 | 118 | 97 | 100 | 102 | 106 |
| Lumens per foot (305mm) | 3009 | 3104 | 3167 | 3167 | 2594 | 2675 | 2730 | 2757 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

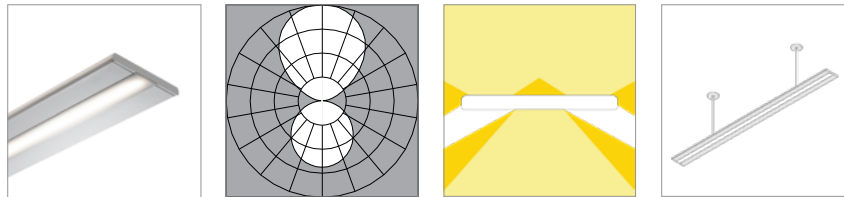
Symmetric with EdgeGlow, up | 80° Symmetric, down (U2S7)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 114 | 117 | 120 | 120 | 98 | 101 | 103 | 107 |
| Lumens per foot (305mm) | 844 | 870 | 888 | 888 | 727 | 750 | 766 | 773 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 130 | 134 | 136 | 136 | 113 | 116 | 119 | 124 |
| Lumens per foot (305mm) | 1687 | 1741 | 1776 | 1776 | 1455 | 1501 | 1531 | 1546 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 120 | 123 | 126 | 126 | 103 | 106 | 109 | 113 |
| Lumens per foot (305mm) | 3206 | 3307 | 3375 | 3375 | 2764 | 2851 | 2909 | 2938 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric with EdgeGlow, up | Soft Diffuse, down (U2D2)



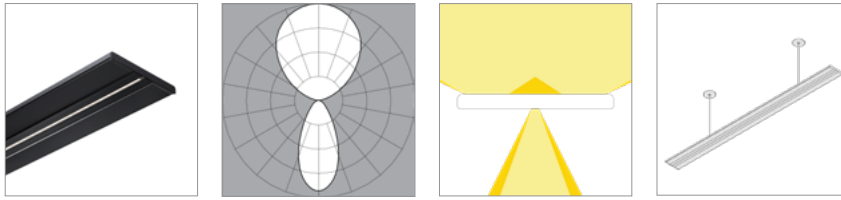
L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 120 | 124 | 126 | 126 | 103 | 107 | 109 | 110 |
| Lumens per foot (305mm) | 888 | 916 | 935 | 935 | 766 | 790 | 806 | 814 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 136 | 141 | 144 | 144 | 119 | 123 | 125 | 126 |
| Lumens per foot (305mm) | 1776 | 1832 | 1870 | 1870 | 1531 | 1579 | 1612 | 1628 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 126 | 130 | 132 | 132 | 109 | 112 | 114 | 115 |
| Lumens per foot (305mm) | 3375 | 3481 | 3552 | 3552 | 2909 | 3001 | 3062 | 3093 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

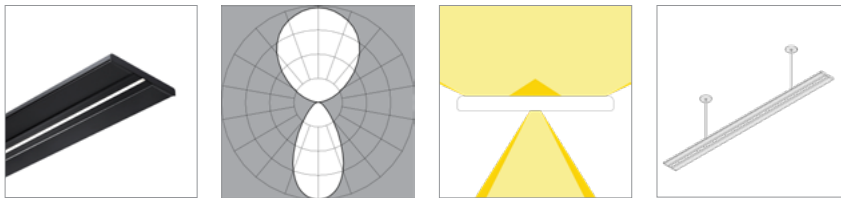
Symmetric, up | 40° Symmetric, down (U1S1-BL)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 78 | 80 | 82 | 82 | 67 | 69 | 70 | 73 |
| Lumens per foot (305mm) | 574 | 592 | 604 | 604 | 495 | 510 | 521 | 526 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 88 | 91 | 93 | 93 | 77 | 79 | 81 | 84 |
| Lumens per foot (305mm) | 1148 | 1184 | 1208 | 1208 | 989 | 1021 | 1041 | 1052 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 82 | 84 | 86 | 86 | 70 | 73 | 74 | 77 |
| Lumens per foot (305mm) | 2180 | 2249 | 2295 | 2295 | 1880 | 1939 | 1979 | 1998 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric, up | 60° Symmetric, down (U1S2-BL)



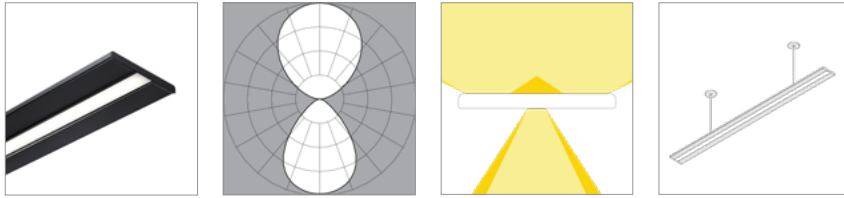
L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 90 | 93 | 95 | 95 | 78 | 80 | 82 | 82 |
| Lumens per foot (305mm) | 665 | 687 | 701 | 701 | 574 | 592 | 604 | 610 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 102 | 106 | 108 | 108 | 89 | 92 | 94 | 95 |
| Lumens per foot (305mm) | 1331 | 1373 | 1401 | 1401 | 1147 | 1184 | 1208 | 1220 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 94 | 97 | 99 | 99 | 81 | 84 | 86 | 87 |
| Lumens per foot (305mm) | 2529 | 2609 | 2662 | 2662 | 2180 | 2249 | 2295 | 2318 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

Symmetric, up | 80° Symmetric, down (U1S7-BL)



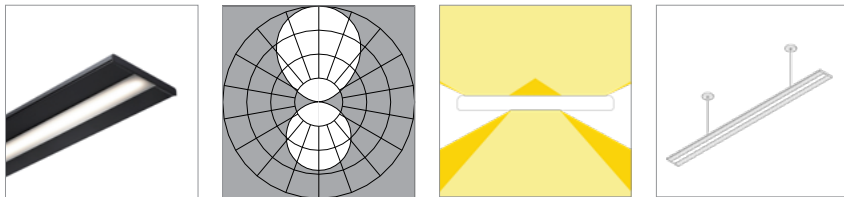
L80 >60,000 hours

| Low Output (LO) | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Efficacy - Lumens per Watt | 101 | 104 | 106 | 106 | 87 | 90 | 92 | 96 |
| Lumens per foot (305mm) | 748 | 771 | 787 | 787 | 644 | 665 | 678 | 685 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |

| Standard Output (SO) | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 115 | 119 | 121 | 121 | 99 | 102 | 104 | 108 |
| Lumens per foot (305mm) | 1495 | 1542 | 1574 | 1574 | 1289 | 1330 | 1357 | 1370 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |

| High Output (HO) | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 106 | 109 | 112 | 112 | 91 | 94 | 96 | 100 |
| Lumens per foot (305mm) | 2841 | 2930 | 2990 | 2990 | 2449 | 2526 | 2578 | 2604 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric, up | Soft Diffuse, down (U1D2-BL)



L80 >60,000 hours

| Low Output (LO) | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Efficacy - Lumens per Watt | 107 | 110 | 112 | 112 | 92 | 95 | 97 | 98 |
| Lumens per foot (305mm) | 791 | 816 | 833 | 833 | 682 | 704 | 718 | 725 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |

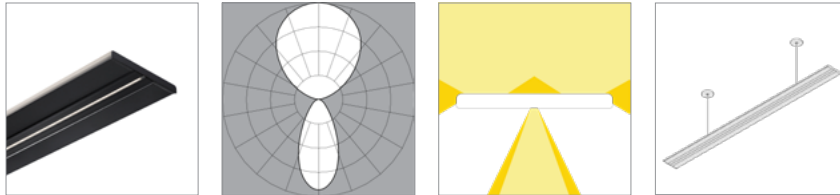
| Standard Output (SO) | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 122 | 126 | 128 | 128 | 105 | 108 | 111 | 112 |
| Lumens per foot (305mm) | 1583 | 1633 | 1666 | 1666 | 1364 | 1408 | 1436 | 1451 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |

| High Output (HO) | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 112 | 116 | 118 | 118 | 97 | 100 | 102 | 103 |
| Lumens per foot (305mm) | 3007 | 3102 | 3165 | 3165 | 2592 | 2674 | 2729 | 2756 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

Symmetric with EdgeGlow, up | 40° Symmetric, down (U2S1-BL)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 84 | 86 | 88 | 88 | 72 | 74 | 76 | 79 |
| Lumens per foot (305mm) | 618 | 638 | 651 | 651 | 533 | 550 | 561 | 567 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |

| | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 95 | 98 | 100 | 100 | 82 | 85 | 87 | 90 |
| Lumens per foot (305mm) | 1237 | 1276 | 1302 | 1302 | 1066 | 1100 | 1122 | 1133 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.1 |

| | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 88 | 91 | 92 | 92 | 76 | 78 | 80 | 83 |
| Lumens per foot (305mm) | 2349 | 2424 | 2473 | 2473 | 2025 | 2089 | 2132 | 2153 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Symmetric with EdgeGlow, up | 60° Symmetric, down (U2S2-BL)



L80 >60,000 hours

| | 80 CRI (80min., 84 avg.) | | | | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|--------------------------|-------|-------|-------|--------------------------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K | 2700K | 3000K | 3500K | 4000K |
| Low Output (LO) | | | | | | | | |
| Efficacy - Lumens per Watt | 95 | 98 | 100 | 100 | 82 | 84 | 86 | 89 |
| Lumens per foot (305mm) | 702 | 724 | 739 | 739 | 605 | 624 | 637 | 643 |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |

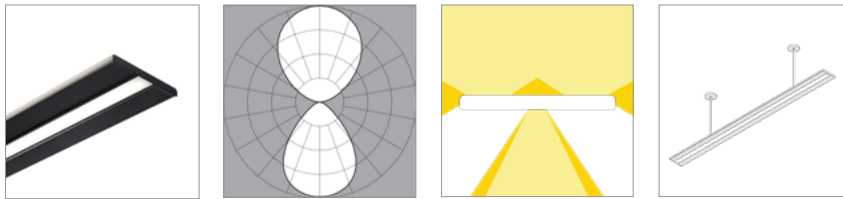
| | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|
| Standard Output (SO) | | | | | | | | |
| Efficacy - Lumens per Watt | 108 | 111 | 114 | 114 | 94 | 97 | 99 | 103 |
| Lumens per foot (305mm) | 1403 | 1448 | 1477 | 1477 | 1210 | 1248 | 1274 | 1286 |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 13.0 |

| | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|
| High Output (HO) | | | | | | | | |
| Efficacy - Lumens per Watt | 100 | 103 | 105 | 105 | 86 | 89 | 90 | 94 |
| Lumens per foot (305mm) | 2667 | 2751 | 2807 | 2807 | 2299 | 2371 | 2420 | 2444 |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

Symmetric with EdgeGlow, up | 80° Symmetric, down (U2S7-BL)



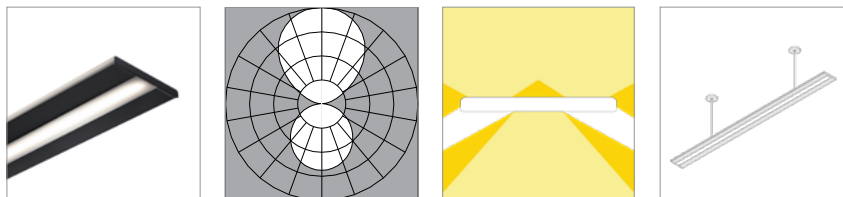
L80 >60,000 hours

| | 2700K | 80 CRI (80min., 84 avg.) | | | | 2700K | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|-------|--------------------------|-------|-------|-------|-------|--------------------------|-------|--|--|
| | | 3000K | 3500K | 4000K | 3000K | | 3500K | 4000K | | |
| Low Output (LO) | | | | | | | | | | |
| Efficacy - Lumens per Watt | 105 | 108 | 110 | 110 | 90 | 93 | 95 | 99 | | |
| Lumens per foot (305mm) | 775 | 800 | 816 | 816 | 668 | 689 | 703 | 710 | | |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | | |

| | 2700K | 80 CRI (80min., 84 avg.) | | | | 2700K | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|-------|--------------------------|-------|-------|-------|-------|--------------------------|-------|--|--|
| | | 3000K | 3500K | 4000K | 3000K | | 3500K | 4000K | | |
| Standard Output (SO) | | | | | | | | | | |
| Efficacy - Lumens per Watt | 119 | 123 | 125 | 125 | 103 | 106 | 108 | 112 | | |
| Lumens per foot (305mm) | 1550 | 1599 | 1632 | 1632 | 1336 | 1379 | 1407 | 1421 | | |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | | |

| | 2700K | 80 CRI (80min., 84 avg.) | | | | 2700K | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|-------|--------------------------|-------|-------|-------|-------|--------------------------|-------|--|--|
| | | 3000K | 3500K | 4000K | 3000K | | 3500K | 4000K | | |
| High Output (HO) | | | | | | | | | | |
| Efficacy - Lumens per Watt | 110 | 113 | 116 | 116 | 95 | 98 | 100 | 104 | | |
| Lumens per foot (305mm) | 2945 | 3038 | 3100 | 3100 | 2539 | 2619 | 2673 | 2699 | | |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | | |

Symmetric with EdgeGlow, up | Soft Diffuse, down (U2D2-BL)



L80 >60,000 hours

| | 2700K | 80 CRI (80min., 84 avg.) | | | | 2700K | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|-------|--------------------------|-------|-------|-------|-------|--------------------------|-------|--|--|
| | | 3000K | 3500K | 4000K | 3000K | | 3500K | 4000K | | |
| Low Output (LO) | | | | | | | | | | |
| Efficacy - Lumens per Watt | 111 | 115 | 117 | 117 | 96 | 99 | 101 | 102 | | |
| Lumens per foot (305mm) | 476 | 491 | 501 | 501 | 410 | 423 | 432 | 436 | | |
| Watts per foot (305mm) | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | | |

| | 2700K | 80 CRI (80min., 84 avg.) | | | | 2700K | 90 CRI (90min., 96 avg.) | | | |
|-----------------------------|-------|--------------------------|-------|-------|-------|-------|--------------------------|-------|--|--|
| | | 3000K | 3500K | 4000K | 3000K | | 3500K | 4000K | | |
| Standard Output (SO) | | | | | | | | | | |
| Efficacy - Lumens per Watt | 127 | 131 | 134 | 134 | 110 | 113 | 115 | 116 | | |
| Lumens per foot (305mm) | 952 | 982 | 1002 | 1002 | 821 | 847 | 864 | 873 | | |
| Watts per foot (305mm) | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | | |

| | 2700K | 80 CRI (80min., 84 avg.) | | | | 2700K | 90 CRI (90min., 96 avg.) | | | |
|----------------------------|-------|--------------------------|-------|-------|-------|-------|--------------------------|-------|--|--|
| | | 3000K | 3500K | 4000K | 3000K | | 3500K | 4000K | | |
| High Output (HO) | | | | | | | | | | |
| Efficacy - Lumens per Watt | 117 | 121 | 123 | 123 | 101 | 104 | 106 | 107 | | |
| Lumens per foot (305mm) | 1809 | 1866 | 1904 | 1904 | 1559 | 1609 | 1641 | 1658 | | |
| Watts per foot (305mm) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | | |

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