



Spec Guide

# RaceRail® | Ceiling-Wall Arm | 107

Direct or indirect lighting for open office, wall wash and ambient applications.



RaceRail: direct or indirect, 370° rotation

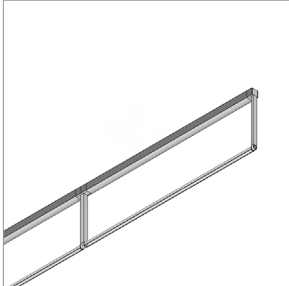
**Benefits & Features**

**Super Slim, Adaptive Design**  
Round profile, Ø1.12" (28mm).

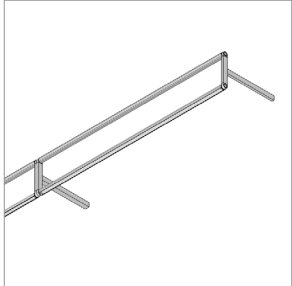
**Superior Light Quality & Performance**  
Output up to 1507 lm/ft (4943 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

**Adaptive Power**  
Full range dimming power for all protocols. Integral or remote power available.

**Better Optics & Beam Control Options**  
Batwing, FlyWing, and diffuse lens available. Directional control with 370° rotation, angle gauge and lock.



Integral Power



Double Rail with Tee, Zero Canopy™

## Build Your Specification

| 107-RR                        |   |   |  |   |  |  |
|-------------------------------|---|---|--|---|--|--|
| <b>System &amp; Rail Type</b> | <b>Single/Double Rail</b>   | <b>System Length</b>  | <b>Rail Length</b>   | <b>Mounting</b>                             | <b>Arm Length</b>  |  |
| <b>107-RR RaceRail</b>        | <b>01</b> Single Rail<br><b>03</b> Double Rail with 3" (76mm) Tee<br><b>06</b> Double Rail with 6" (152mm) Tee<br><b>12</b> Double Rail with 12" (305mm) Tee<br><b>ZZ</b> ZZ Other (please specify) | Specify overall system length in ft/in or M/mm.<br><br><i>Corner and Shapes Available See Guide for details</i> | <b>24</b> 24" (610mm)<br><b>36</b> 36" (914mm)<br><b>48</b> 48" (1219mm)<br><b>60</b> 60" (1524mm)<br><b>72</b> 72" (1829mm)<br><b>ZZ</b> Other rail length or layout (please specify) | <b>CA</b> Ceiling Arm<br><b>WA</b> Wall Arm | <b>1.25</b> 1.25" arm (32mm) <sup>1</sup><br><b>3</b> 3" arm (76mm)<br><b>6</b> 6" arm (152mm)<br><b>12</b> 12" arm (305mm)<br><b>18</b> 18" arm (457mm) <sup>2</sup><br><b>24</b> 24" arm (610mm) <sup>2</sup><br><b>ZZ</b> Other (please specify) <sup>2</sup> |  |

*See [Rail Length Chart](#) for more details*

| Power Location             |                            | Power Type <sup>3</sup>  |  | Voltage                    |
|----------------------------|----------------------------|--|--|----------------------------|
| <b>Integral Power</b>      |                            | <b>Flexible 1 to 1 Power</b>   |  | <b>1</b> 120v              |
| <b>IP</b> Integral Power   |                            | <b>AE</b> eldoLED 0-10v, 1.0% Dimming  |  | <b>2</b> 120v-277v         |
| <b>Remote Power</b>        |                            | <b>AT</b> eldoLED 0-10v, 0.1% Dimming  |  | <b>X</b> Not Yet Specified |
| <b>Zero Canopy</b>         |                            | <b>AD</b> eldoLED DALI, 0.1% Dimming   |  |                            |
|                            | <b>Small Round Canopy</b>  | <b>AX</b> eldoLED DMX, 100-0% Dimming  |  |                            |
| <b>0025</b> 25' (7.62m)    | <b>2R25</b> 25' (7.62m)    | <b>AH</b> Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE1       |  |                            |
| Wire Harness               | Wire Harness               | <b>AH2</b> Hi-lume 1% 2-wire LTEA2W (120V forward phase only)                  |  |                            |
| <b>0050</b> 50' (15.24m)   | <b>2R50</b> 50' (15.24m)   | <b>Optimized Power</b>   |  |                            |
| Wire Harness               | Wire Harness               | <b>AEO</b> eldoLED 0-10v, 1.0% Dimming   |  |                            |
| <b>0075</b> 75' (22.86m)   | <b>2R75</b> 75' (22.86m)   | <b>ATO</b> eldoLED 0-10v, 0.1% Dimming   |  |                            |
| Wire Harness               | Wire Harness               | <b>ADO</b> eldoLED DALI, 0.1% Dimming  |  |                            |
| <b>00100</b> 100' (30.48m) | <b>2R100</b> 100' (30.48m) | <b>AXO</b> eldoLED DMX, 100-0% dimming   |  |                            |
| Wire Harness               | Wire Harness               | <b>ZZ</b> Other (please specify)   |  |                            |
| <b>Zero Block</b>          | <b>Small Square Canopy</b> | <i>*See <a href="#">Power Guide</a> for driver features &amp; limitations.</i> |  |                            |
| <b>0B25</b> 25' (7.62m)    | <b>2S25</b> 25' (7.62m)    |  |  |                            |
| Wire Harness               | Wire Harness               |  |  |                            |
|                            | <b>2S50</b> 50' (15.24m)   |  |  |                            |
|                            | Wire Harness               |  |  |                            |
|                            | <b>2S75</b> 75' (22.86m)   |  |  |                            |
|                            | Wire Harness               |  |  |                            |
|                            | <b>2S100</b> 100' (30.48m) |  |  |                            |
|                            | Wire Harness               |  |  |                            |
|                            | <b>Large Square Canopy</b> |  |  |                            |
|                            | <b>4S25</b> 25' (7.62m)    |  |  |                            |
|                            | Wire Harness               |  |  |                            |
|                            | <b>4S50</b> 50' (15.24m)   |  |  |                            |
|                            | Wire Harness               |  |  |                            |
|                            | <b>4S75</b> 75' (22.86m)   |  |  |                            |
|                            | Wire Harness               |  |  |                            |
|                            | <b>4S100</b> 100' (30.48m) |  |  |                            |
|                            | Wire Harness               |  |  |                            |

| 0  | Z                      |  |                                       |                          | 0   |
|--|------------------------|--|---------------------------------------|--------------------------|---|
| <b>Emergency Power</b>                                     | <b>LED Type</b>        | <b>Lumen Output*</b>   | <b>Color Temperature</b>              | <b>Optics</b>            | <b>Sensors</b>                                    |
| <b>0</b> No Emergency Power                                | <b>Z</b> Zipper Board™ | <b>LO</b> Low Output   | <b>80+ CRI</b>                        | <b>Zipper Board™ (Z)</b> | <b>0</b> None                                     |
| <b>ZZ</b> Emergency Power<br><i>(specify requirements)</i> |                        | <b>SO</b> Standard Output  | <b>27</b> 2700K                       | <b>2</b> Diffuse, round  | <b>ZZ</b> Sensor<br><i>(specify requirements)</i> |
|  |                        | <b>HO</b> High Output  | <b>30</b> 3000K                       | <b>G1</b> 120° Batwing   |   |
|  |                        | <b>ZZ</b> Other (please specify)   | <b>35</b> 3500K                       | <b>G2</b> 120° FlyWing   |   |
|  |                        | <i>See <a href="#">IES Files</a> page for details.</i>                         | <b>40</b> 4000K                       |                          |   |
|  |                        | <i>*See <a href="#">Power Guide</a> for driver features &amp; limitations.</i> | <b>90+ CRI</b>                        |                          |   |
|  |                        |  | <b>279</b> 2700K                      |                          |   |
|  |                        |  | <b>309</b> 3000K                      |                          |   |
|  |                        |  | <b>359</b> 3500K                      |                          |   |
|  |                        |  | <b>409</b> 4000K                      |                          |   |
|  |                        |  | <b>ZZ</b> Tunable White Available     |                          |   |
|  |                        |  | <a href="#">See Guide</a> for details |                          |   |

| Finish                           | Options                                     |
|----------------------------------|---|
| <b>AL</b> Clear Anodized         | <b>0</b> None                               |
| <b>WH</b> White Painted          | <b>9</b> 9' 18/3 Cord and Plug <sup>3</sup> |
| <b>BL</b> Black Anodized         |   |
| <b>ZZ</b> Other (please specify) |   |

### NOTES & LIMITATIONS

- <sup>1</sup> 1.25" arm length is not available with Zero Block™ (0B)
- <sup>2</sup> For arms 18" and longer, wall-mounted systems include a cable tie-back
- <sup>3</sup> 9' 18/3 Cord and Plug only available with Remote Power (RP)

5 Year Limited Warranty. See full Vode warranty description [here](#) or at [vode.com](#).

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA.

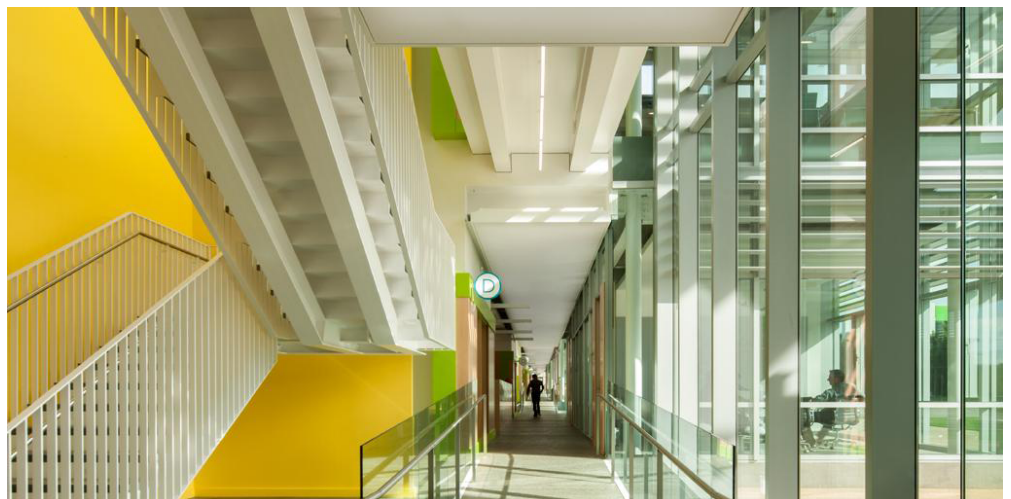


# Applications

## General Interior and Open Office



Hicksons Lawyers, Barangaroo, Sydney, Australia



Newport Beach Civic Center, Newport Beach, CA

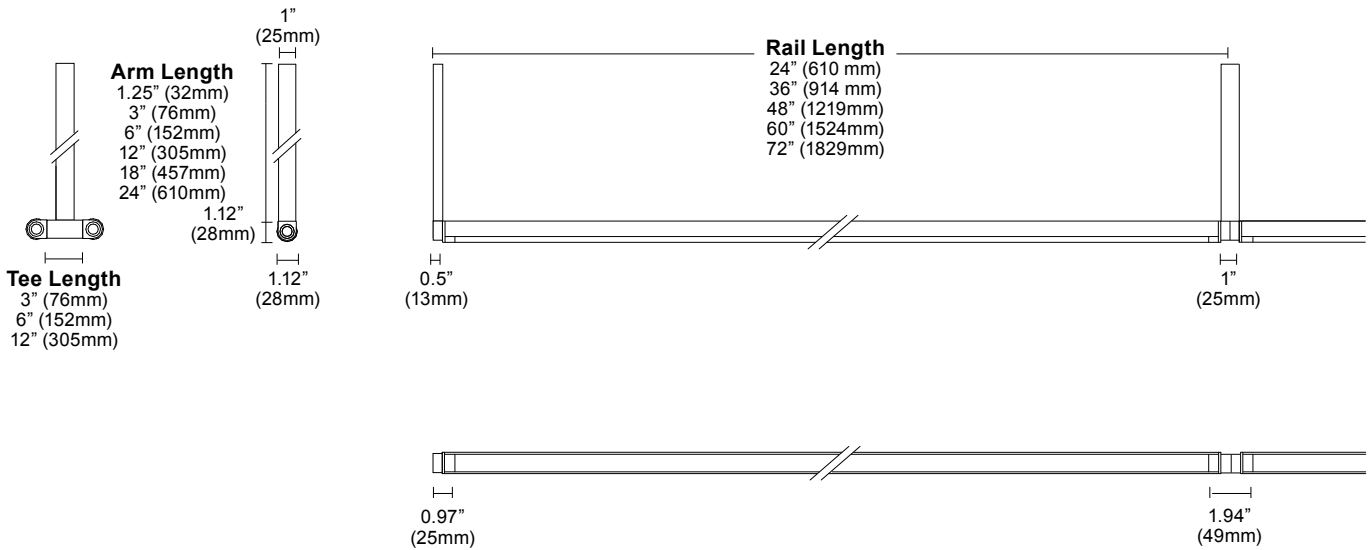
## Structure

|                       |   |
|-----------------------|---|
| Rail Lengths          | 24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1828mm)              |
| Rail Dimensions       | Ø1.12" (28mm)   |
| Construction          | Extruded and machined 6063 aluminum   |
| Mounting              | Ceiling or wall mount to jbox or driver housing                                 |
| Arm Length            | 1.25" (32mm) – 24" (610mm). Non-standard arm lengths available                  |
| System Run Length     | 24" (610mm) minimum. Unlimited maximum length.                                  |
| Operating Temperature | 32°F to 104°F (0°C to 40°C)   |
| Humidity              | 0-85%, non-condensing   |
| System Weight         | 0.88lbs per ft (0.40kg per 305mm) <i>Power supply and housing not included.</i> |

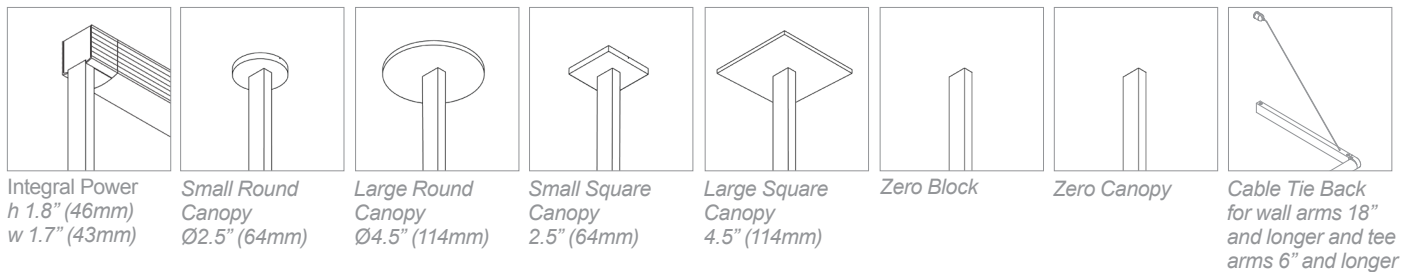
## Materials

|                                   |  |
|-----------------------------------|--|
| LED Board Construction            | Aluminum core PCB, black LCP connectors, RoHS compliant  |
| Lens                              | High-impact extruded acrylic glass (PMMA)  |
| Power Cable                       | Ø4mm, 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) | 0.7" 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  |

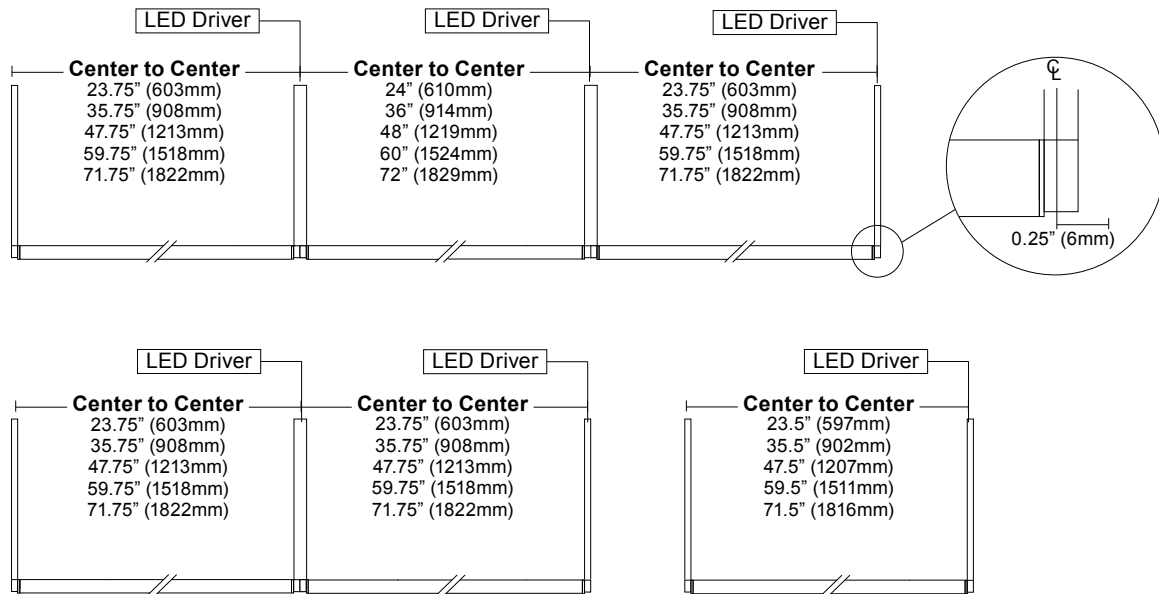
## Dimensions



## Mounting Options



## Layout



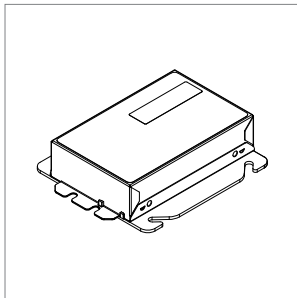
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag)

## Power and Controls

|                  |  |
|------------------|--|
| Power Type       | Class 2 (<60v output) constant current driver  |
| Dimming Controls | Dimming (0.1%, 1%), 0-10v, DALI, DMX, Lutron Hi-lume 1% are available. See <a href="#">Power Guide</a> 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 <a href="#">Power Guide</a> for details. |

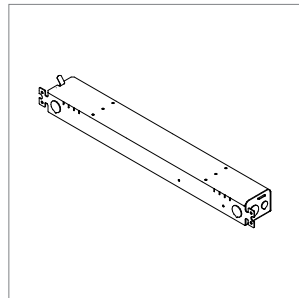
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

## Remote Brick Power Housing



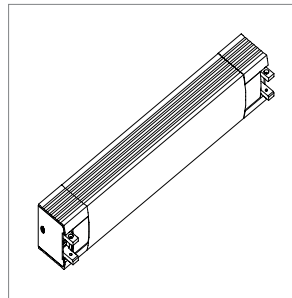
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in<sup>3</sup> (J-Box not provided). See [Tech Sheet](#) for details.

## Remote Linear Power Housing



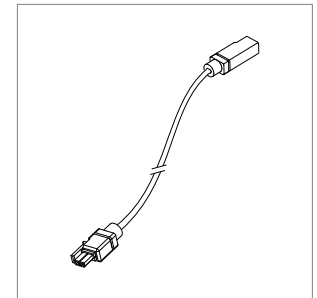
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

## Integral Power



Houses integral power supply. Direct conduit feed recommended. Housing mounts to standard North America 4" j-box. Mounts to most surfaces. Blocking recommended at all arm junctions. See [Tech Sheet](#) for details.

## Wire Harness

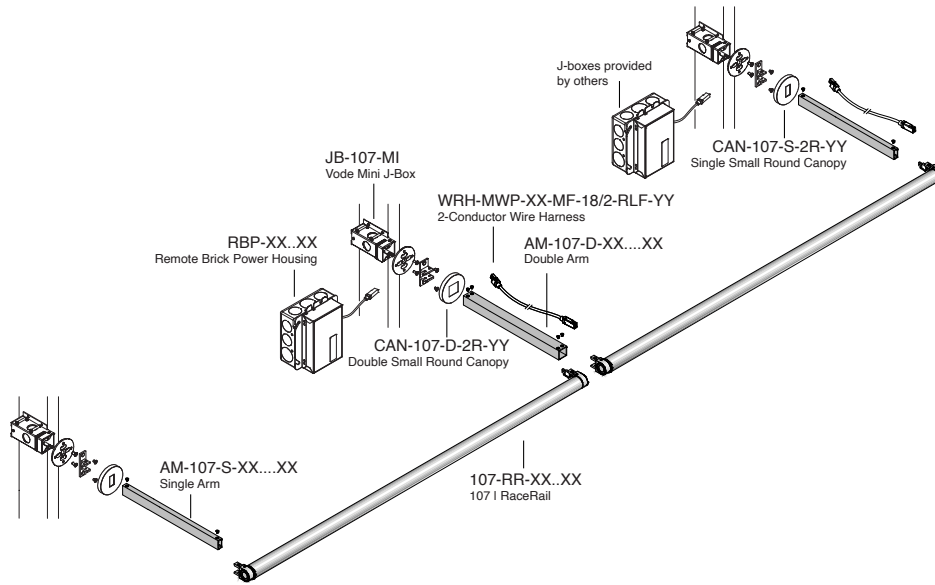


Wire harness connects driver to rail. Wire harness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). See [Tech Sheet](#) for details.

## Power and Controls

### Flexible 1 to 1 power

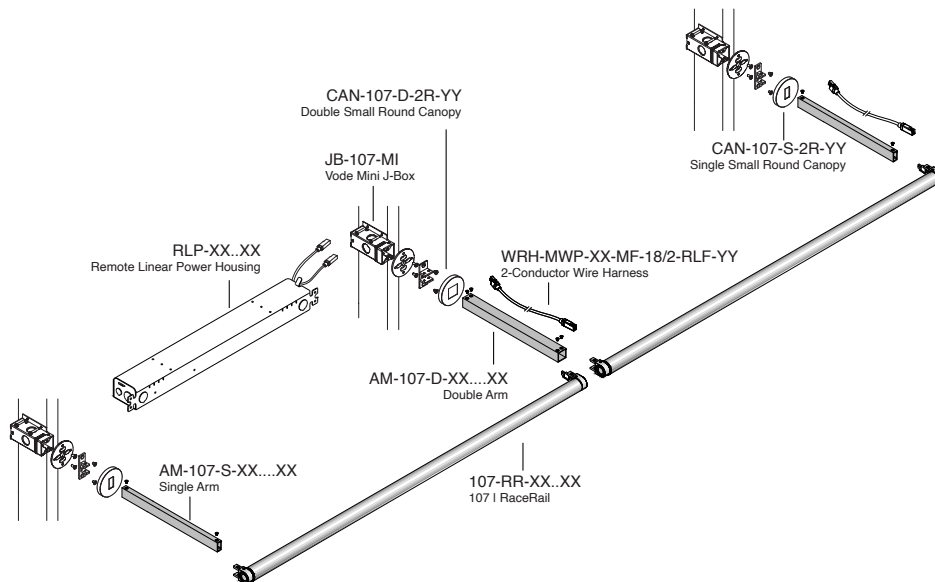
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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



### 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.

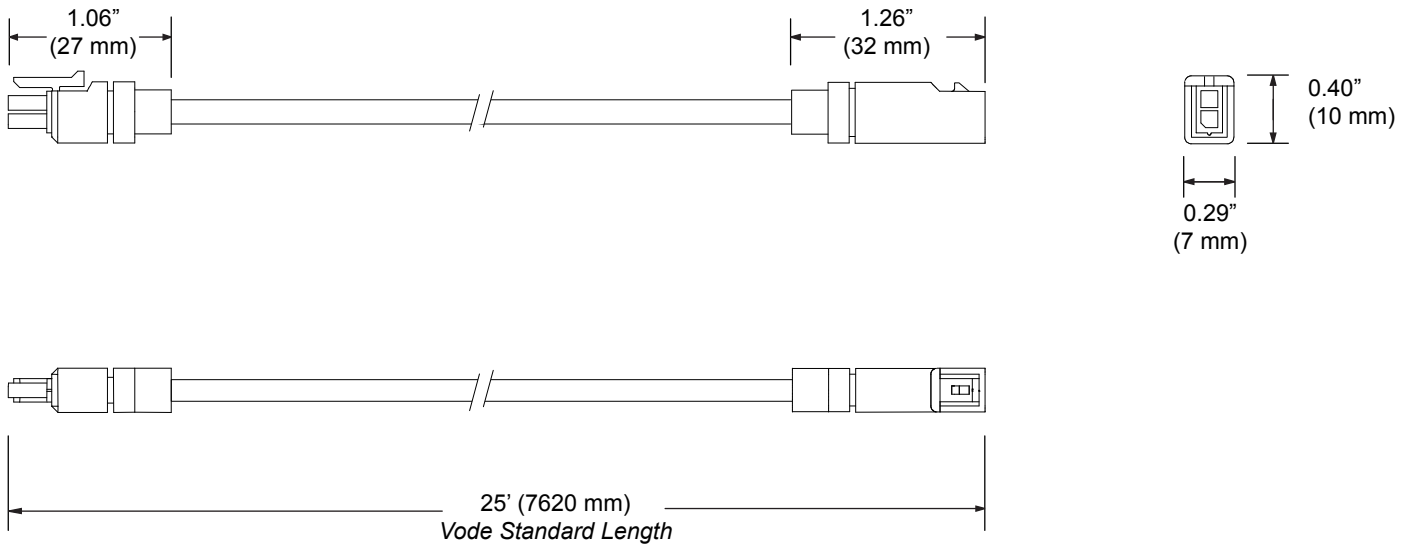


Note: Drawings not to scale, for reference only.

## Power and Controls

### Wire Harness

Low voltage wire harness connects driver to rail. Wire harness is 25' (7.6m) 18/2 AWG stranded wire with provided micro fit molex connectors on either end for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). Refer to Vode Power Guide for max remote distance based on power selection. Consult [Power Guide](#) to determine which type you will receive.

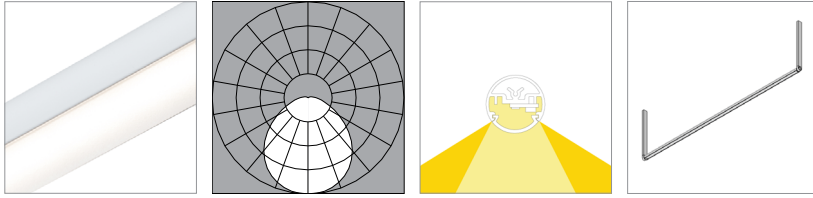


Note: Drawings not to scale, for reference only.

## Performance | Zipper LED

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

## Diffuse, round (2)



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 | 126                      | 130   | 132   | 132   | 109                      | 112   | 114   | 115   |
| Lumens per foot (305mm)    | 432                      | 446   | 455   | 455   | 373                      | 385   | 392   | 396   |
| Watts per foot (305mm)     | 3.5                      | 3.5   | 3.5   | 3.5   | 3.5                      | 3.5   | 3.5   | 3.5   |

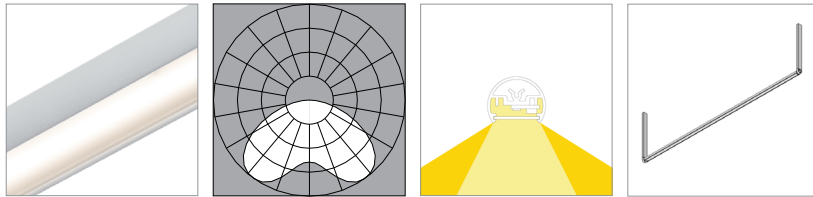
## Standard Output (SO)

|                            |     |     |     |     |     |     |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Efficacy - Lumens per Watt | 145 | 150 | 153 | 153 | 125 | 129 | 132 | 133 |
| Lumens per foot (305mm)    | 865 | 892 | 910 | 910 | 746 | 769 | 785 | 793 |
| Watts per foot (305mm)     | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |

## High Output (HO)

|                            |      |      |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|------|------|
| Efficacy - Lumens per Watt | 134  | 139  | 142  | 142  | 116  | 120  | 122  | 123  |
| Lumens per foot (305mm)    | 1643 | 1695 | 1730 | 1730 | 1416 | 1461 | 1491 | 1506 |
| Watts per foot (305mm)     | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |

## 120° Batwing (G1)



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 | 98                       | 101   | 103   | 103   | 85                       | 87    | 89    | 90    |
| Lumens per foot (305mm)    | 365                      | 377   | 385   | 385   | 315                      | 325   | 332   | 335   |
| Watts per foot (305mm)     | 3.8                      | 3.8   | 3.8   | 3.8   | 3.8                      | 3.8   | 3.8   | 3.8   |

## Standard Output (SO)

|                            |     |     |     |     |     |     |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Efficacy - Lumens per Watt | 122 | 126 | 128 | 128 | 106 | 109 | 111 | 112 |
| Lumens per foot (305mm)    | 731 | 754 | 769 | 769 | 630 | 650 | 663 | 670 |
| Watts per foot (305mm)     | 6.1 | 6.1 | 6.1 | 6.1 | 6.0 | 6.0 | 6.0 | 6.0 |

## High Output (HO)

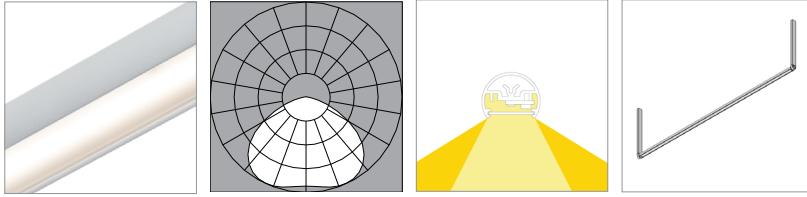
|                            |      |      |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|------|------|
| Efficacy - Lumens per Watt | 114  | 117  | 120  | 120  | 98   | 101  | 103  | 104  |
| Lumens per foot (305mm)    | 1389 | 1433 | 1462 | 1462 | 1197 | 1235 | 1260 | 1273 |
| Watts per foot (305mm)     | 12.3 | 12.3 | 12.3 | 12.3 | 12.4 | 12.4 | 12.4 | 12.4 |



## Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

## 120° FlyWing (G2)



L80 is >60,000 hours

|                             | <b>80 CRI (80min., 84 avg.)</b> |       |       |       | <b>90 CRI (90min., 96 avg.)</b> |       |       |       |
|-----------------------------|---------------------------------|-------|-------|-------|---------------------------------|-------|-------|-------|
|                             | 2700K                           | 3000K | 3500K | 4000K | 2700K                           | 3000K | 3500K | 4000K |
| <b>Low Output (LO)</b>      |                                 |       |       |       |                                 |       |       |       |
| Efficacy - Lumens per Watt  | 108                             | 111   | 114   | 114   | 93                              | 96    | 98    | 99    |
| Lumens per foot (305mm)     | 370                             | 382   | 390   | 390   | 319                             | 329   | 336   | 339   |
| Watts per foot (305mm)      | 3.5                             | 3.5   | 3.5   | 3.5   | 3.5                             | 3.5   | 3.5   | 3.5   |
| <b>Standard Output (SO)</b> |                                 |       |       |       |                                 |       |       |       |
| Efficacy - Lumens per Watt  | 124                             | 128   | 131   | 131   | 107                             | 110   | 113   | 114   |
| Lumens per foot (305mm)     | 741                             | 764   | 780   | 780   | 639                             | 659   | 672   | 679   |
| Watts per foot (305mm)      | 6.0                             | 6.0   | 6.0   | 6.0   | 6.0                             | 6.0   | 6.0   | 6.0   |
| <b>High Output (HO)</b>     |                                 |       |       |       |                                 |       |       |       |
| Efficacy - Lumens per Watt  | 115                             | 119   | 121   | 121   | 99                              | 103   | 105   | 106   |
| Lumens per foot (305mm)     | 1408                            | 1452  | 1482  | 1482  | 1213                            | 1252  | 1277  | 1290  |
| Watts per foot (305mm)      | 12.3                            | 12.3  | 12.3  | 12.3  | 12.3                            | 12.3  | 12.3  | 12.3  |

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