vode Adaptive Architectural Lighting Systems

Spec Guide

RaceRail | Table Arm | 107

Red List Approved

Declare.

Task lighting for table, workstation, and carrel desk applications.

RaceRail: direct or indirect, 370° rotation.

Benefits & Features

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

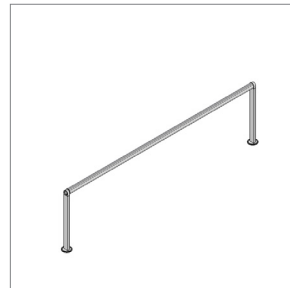**Superior Light Quality & Performance**
Output up to 1507 lm/ft (4943 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.
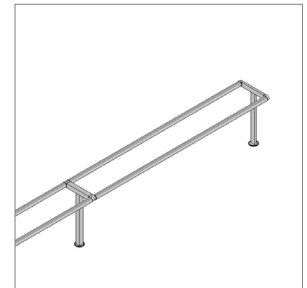
Adaptive Power
Full range dimming power for all protocols. Integral or remote power available.

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

Arm Anchor®

Arm Anchor, Double Rail with Tee

Build Your Specification

107-RR				TA	18	▸▸

System & Rail Type

107-RR RaceRail

Single/Double Rail

01 Single Rail
03 Double Rail with 3" (76mm) Tee
06 Double Rail with 6" (152mm) Tee
12 Double Rail with 12" (305mm) Tee
ZZ Other (please specify)

System Length

Specify overall system length in ft/in or M/mm.

Corner and Shapes Available
See Guide *for details.*

Rail Length

24 24" (610mm)
36 36" (914mm)
48 48" (1219mm)
60 60" (1524mm)
ZZ Other rail length or layout (please specify)

See **Rail Length Chart** *for more details.*

⚠ *Custom lengths may result in light gaps on the fixture. See* **Rail Length Chart** *for more details.*

Mounting

TA Table Arm

Arm Length

18 18" arm (457mm)
ZZ Other (please specify) [1]

▸▸			0	▸▸

Power Location

Remote Power

Specify mounting and harness length code example: **2T25, 2T50**...etc.

Mounting Option

2T Arm Anchor

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

Power Type

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: AE**O**, AT**O**...etc. [2]

VodeNODE

Add '**N**' to power type for Flexible 1 to 1 Power
Add '**ON**' to power type for Optimized Power
example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [3]

ZZ Other (please specify)

See **Power Guide** *for driver features & limitations.*

Voltage

1 120V
2 120V - 277V
X Not Yet Specified

Emergency Power

0 No Emergency Power
ZZ Emergency Power *(specify requirements)*

▸▸	Z				0

LED Type

Z Zipper Board

Lumen Output

LO Low Output
SO Standard Output
HO High Output
ZZ Other (please specify)

See **IES Files** *page for details.*
See **Power Guide** *for driver features & limitations.*

Color Temperature

80+ CRI

27 2700K
30 3000K
35 3500K
40 4000K

90+ CRI

279 2700K
309 3000K
359 3500K
409 4000K

ZZ Tunable White Available
See Guide *for details.*

Optics

Zipper Board (Z)

2 Diffuse, round
G1 120° Batwing
G2 120° FlyWing

Sensors

0 None
ZZ Sensor *(specify requirements)*

▸▸	

Finish

AL Clear Anodized
WH White Powder Coat
BL Black Anodized
ZZ Other (please specify)

Options

0 None
1 On/Off Switch [4]
9 9' 18/3 Cord and Plug

NOTES & LIMITATIONS

[1] Arm lengths >48" not recommended.
[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] One On/Off Switch per LED Driver.

Standard 5 Year Limited Warranty. See details **here***. Contact factory for options on Limited Warranties up to 20 years.*

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.

Applications

Corporate, Educational, and Library
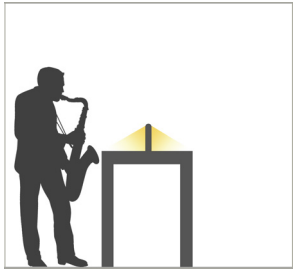
Arizona State University, Phoenix, AZ

Arizona State University, Phoenix, AZ

Declare Label

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

See **International Living Future Institute** website for details.

Declare.℠

Red List Approved
Declare.

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

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

Living Building Challenge Criteria: Compliant

I-13 Red List:
☐ LBC Red List Free   % Disclosed: 100% at 100ppm
■ LBC Red List Approved   VOC Content: Not Applicable
☐ 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
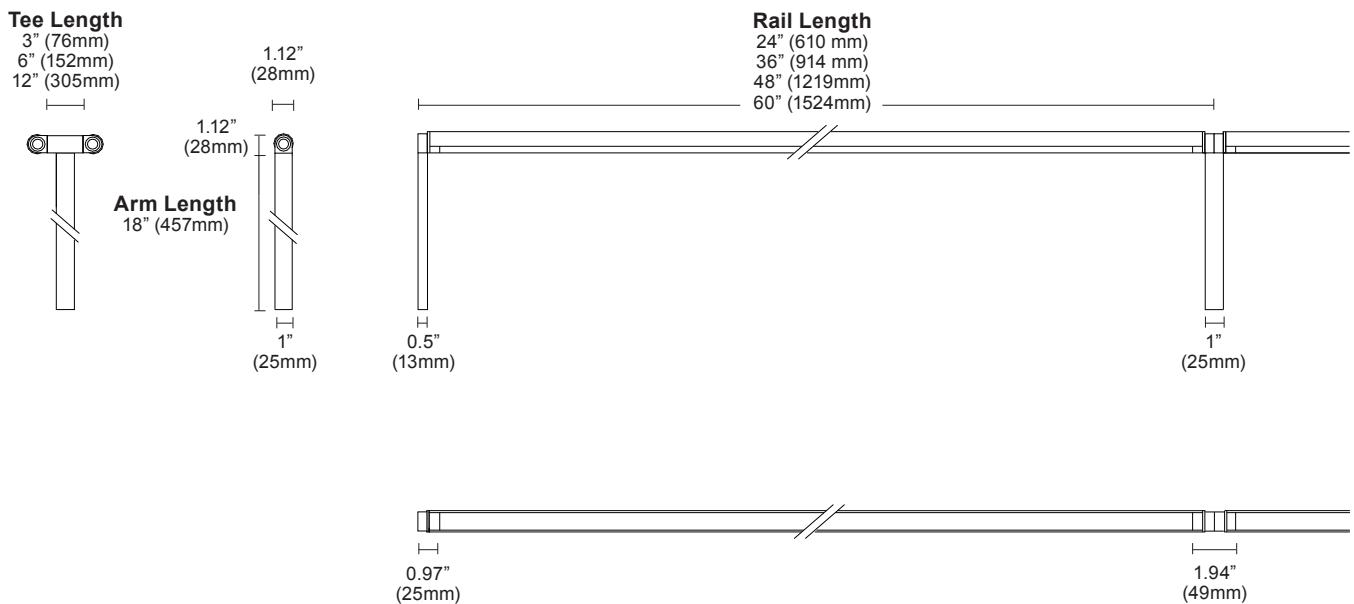
Structure

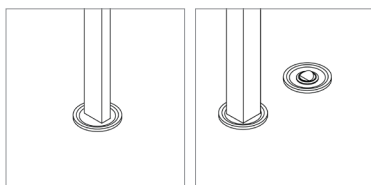|	
Rail Lengths	24" (610mm) - 60" (1524mm). Modified lengths available. *See **Rail Length Chart** for more details.*
Rail Dimensions	Ø1.12" (28mm) x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Table mount to Arm Anchor®.
Arm Length	18" (457mm). Non-standard arm lengths available. Arm lengths >48" (1219mm) not recommended.
System Run Length	24" (610mm) minimum. Unlimited maximum.
Operating Temperature	32ºF to 104ºF (0ºC to 40ºC).
Humidity	0-85%, non-condensing.
Weight	0.88lbs per ft (0.40kg per 305 mm) Power supply and housing not included.

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 *(PVC free in 2020)*.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant *(PVC free in 2020)*.
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.

Dimensions

Tee Length
3" (76mm)
6" (152mm)
12" (305mm)

1.12" (28mm)

1.12" (28mm)

Arm Length
18" (457mm)

1" (25mm)

0.5" (13mm)

Rail Length
24" (610 mm)
36" (914 mm)
48" (1219mm)
60" (1524mm)

1" (25mm)

0.97" (25mm)

1.94" (49mm)

Mounting Options

Arm Anchor
h0.1" (3mm)
Ø2" (51mm)

On Off Switch
(optional)

Layout

0.25"
(6mm)

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.5" (597mm)
35.5" (902mm)
47.5" (1207mm)
59.5" (1511mm)

LED Driver

Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) *See Guide* for details.

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	Remote power. Maximum remote distance up to 100' (30.5m) *depending* on driver selection. *See Power Guide for details.*

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.

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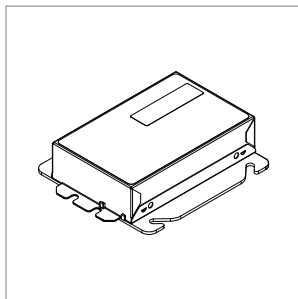
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided).
See *Tech Sheet* for details.

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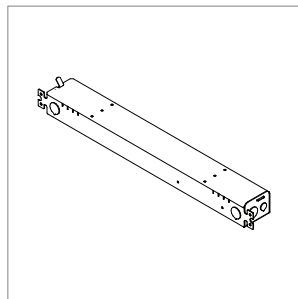
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
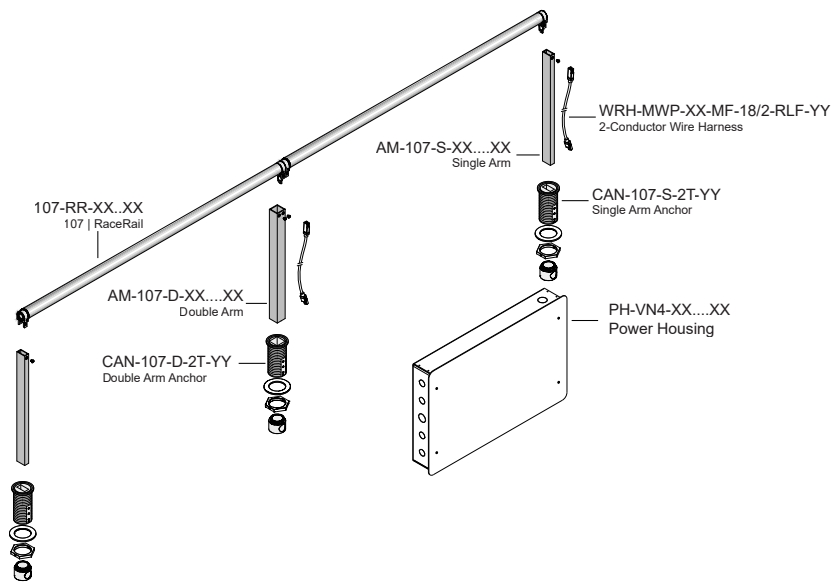See *Tech Sheet* for details.

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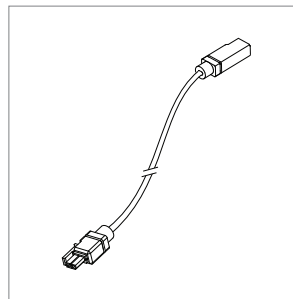
Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See *Tech Sheet* for details.
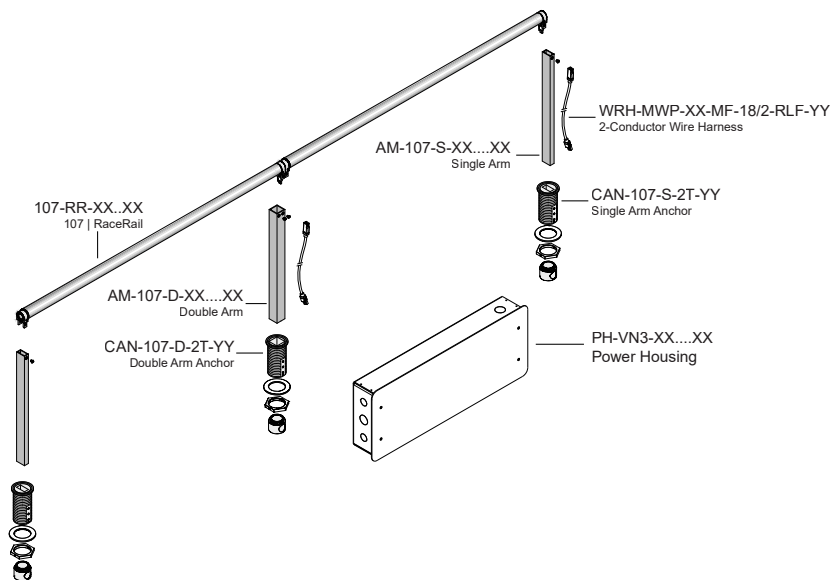
Power and Controls

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.

WRH-MWP-XX-MF-18/2-RLF-YY
2-Conductor Wire Harness

AM-107-S-XX....XX
Single Arm

CAN-107-S-2T-YY
Single Arm Anchor

107-RR-XX..XX
107 | RaceRail

PH-VN4-XX....XX
Power Housing

AM-107-D-XX....XX
Double Arm

CAN-107-D-2T-YY
Double Arm Anchor

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.

WRH-MWP-XX-MF-18/2-RLF-YY
2-Conductor Wire Harness

AM-107-S-XX....XX
Single Arm

CAN-107-S-2T-YY
Single Arm Anchor

107-RR-XX..XX
107 | RaceRail

PH-VN3-XX....XX
Power Housing

AM-107-D-XX....XX
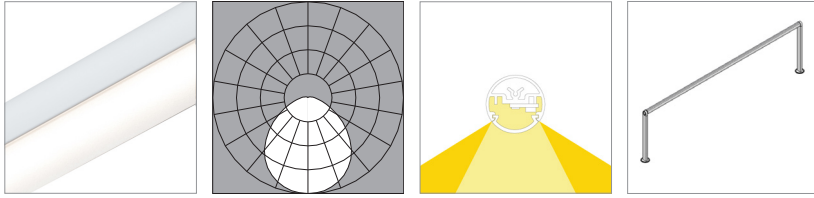Double Arm

CAN-107-D-2T-YY
Double Arm Anchor

Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

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

Diffuse, round (2)

L80 >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	105	107	86	88	90	92
Lumens per foot (305mm)	369	381	389	396	318	328	335	342
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	123	127	129	132	106	109	112	114
Lumens per foot (305mm)	739	762	777	793	637	657	670	684
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
High Output (HO)								
Efficacy - Lumens per Watt	115	118	121	123	99	102	104	106
Lumens per foot (305mm)	1403	1448	1477	1507	1210	1248	1273	1299
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

120º Batwing (G1)
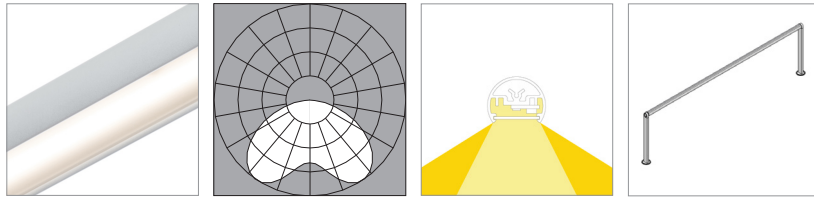
L80 >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	95	76	79	80	82
Lumens per foot (305mm)	328	339	346	353	283	292	298	304
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	110	113	115	118	95	98	100	102
Lumens per foot (305mm)	657	677	691	705	566	584	596	608
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
High Output (HO)								
Efficacy - Lumens per Watt	102	105	107	109	88	91	93	94
Lumens per foot (305mm)	1248	1287	1313	1340	1076	1110	1132	1155
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

Performance | Zipper Board Optics

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

120° FlyWing (G2)
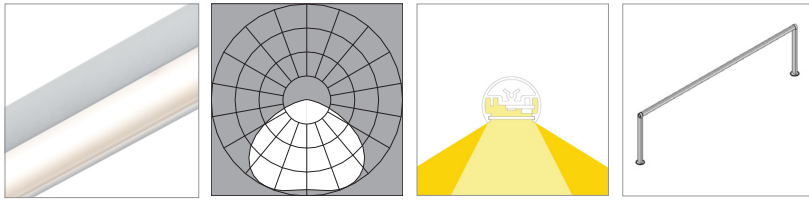
L80 is >60,000 hours

	80 CRI (80min., 84 avg.)				**90 CRI** (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	93	74	77	78	80
Lumens per foot (305mm)	320	331	33	344	276	285	291	297
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	107	110	113	115	92	95	97	99
Lumens per foot (305mm)	641	661	675	688	552	570	582	593
Watts per foot (305mm)	6.1	6.1	6.1	6.41	6.1	6.1	6.1	6.1
High Output (HO)								
Efficacy - Lumens per Watt	99	103	105	107	86	89	90	92
Lumens per foot (305mm)	1218	1256	1282	1307	1050	1083	1105	1127
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4