



Spec Guide

RaceRail | Stack | 117



Direct lighting for library stack and display applications.



RaceRail, direct or indirect, 370° rotation.

Benefits & Features

Minimal, Robust Design

Round profile, Ø1.12 in, 370° rotation. Round profile, Ø1.12 in, 370° rotation.

Superior Light Quality & Performance

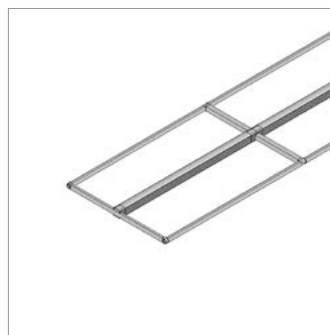
Output up to 1507 lm/ft (HO), 132 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

Adaptable Power Modules

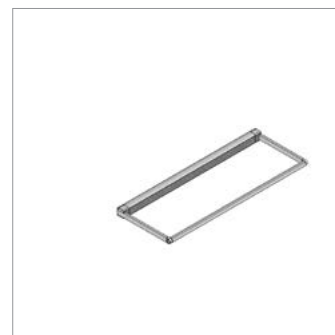
Integral Power, full range dimming power for all protocols.

Better Optics & Beam Control Options

FlyWing™ and diffuse lens available. Directional control with 370° rotation, angle gauge and lock.



Double-sided



Single-sided

Build Your Specification

117-RR					ST	18	»
System & Rail Type		Single/Double Rail	System Length	Rail Length	Mounting	Arm Length	
117-RR RaceRail		K1 Single-sided K2 Double-sided	Specify overall system length in ft/in or M/mm.	24 24" (610mm) 36 36" (914mm) 48 48" (1219mm) 60 60" (1524mm) 72 72" (1829mm) ZZ Other rail length or layout (please specify)	ST Stack	18 18" arm (457mm) ZZ Other (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.							

»	IP				Z	»
Power Location		Power Type		Voltage	Emergency Power	LED Type
Integral Power IP Integral 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) ²		1 120v 2 120V - 277V X Not Yet Specified	0 No Emergency Power ZZ Emergency Power (specify requirements)	Z Zipper Board
See Power Guide for driver features & limitations.						

»				
Lumen Output		Color Temperature	Optics	Finish
LO Low Output SO Standard Output HO High Output ZZ Other (please specify)		90+ CRI 27 2700K 30 3000K 35 3500K 40 4000K ZZ Other (please specify)	Zipper Board (Z) 2 Diffuse, round G1 120° Batwing G2 120° FlyWing	AL Clear Anodized WH White Painted BL Black Anodized ZZ Other (please specify)
See IES Files page for details. See Power Guide for driver features & limitations.				

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

NOTES & LIMITATIONS
¹ Rail length not available for surface mount.
² Lengths of 24" and shorter are not supported due to driver limitations. Daisy chaining multiple fixtures to achieve minimum load is permitted but may introduce installation complexity—consult factory for layout guidance.

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



Applications

Library Stack and Display



Cruzen-Murray Academic Library, Caldwell, ID

Structure

Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm).
Rail Dimensions	Ø1.12" (28mm).
Construction	Extruded and machined 6063 aluminum.
Mounting	Single or double-sided stack mount to integral power housing.
Arm Length	18" (457mm). Standard and non-standard lengths available. Single-sided requires lengths 24" or less.
System Run Length	24" (610mm) minimum. Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-85%, non-condensing.

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>)
Integral Power Housing	Extruded and machined 6063 aluminum.

Sustainability & Certifications

DECLARE

International Living Future Institute (ILFI)



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

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:

Steel; Anodized Aluminum (6063-T5 Alloy); Small Electrical Component (RoHS); Copper; **Fluorinated Ethylene Propylene (masterbatch)**; 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

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

Click here to learn more: [International Living Future Institute](https://living-future.org/declare)

BAA X BABA

Buy American Act / Build America & Buy America Act Compliance

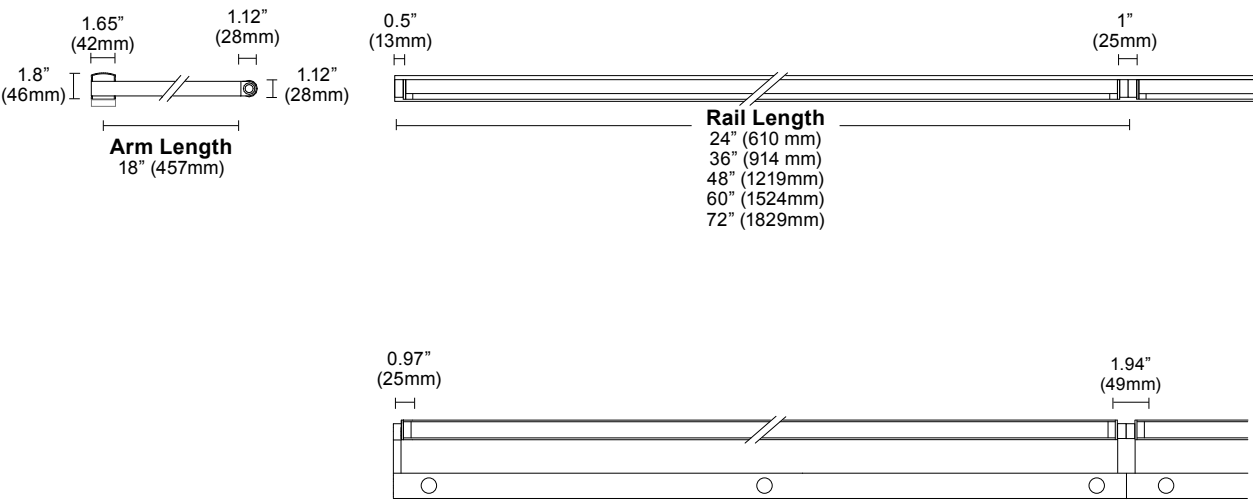
Vode is dedicated to supporting domestic manufacturing and ensuring compliance with BAA and BABA requirements.

Given the complexity of our products, we recommend reaching out to vodecares@vode.com for confirmation regarding compliance for your specific project.



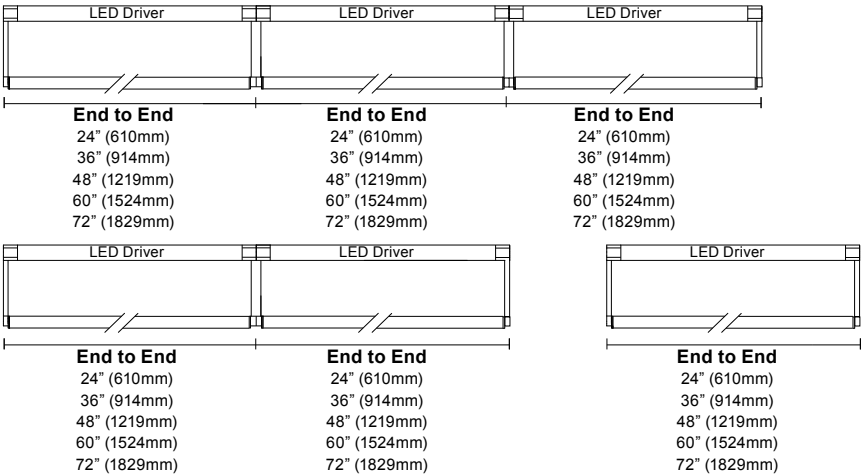
Click here to learn more: [US Department of Commerce](https://www.dhs.gov/baa)

Dimensions

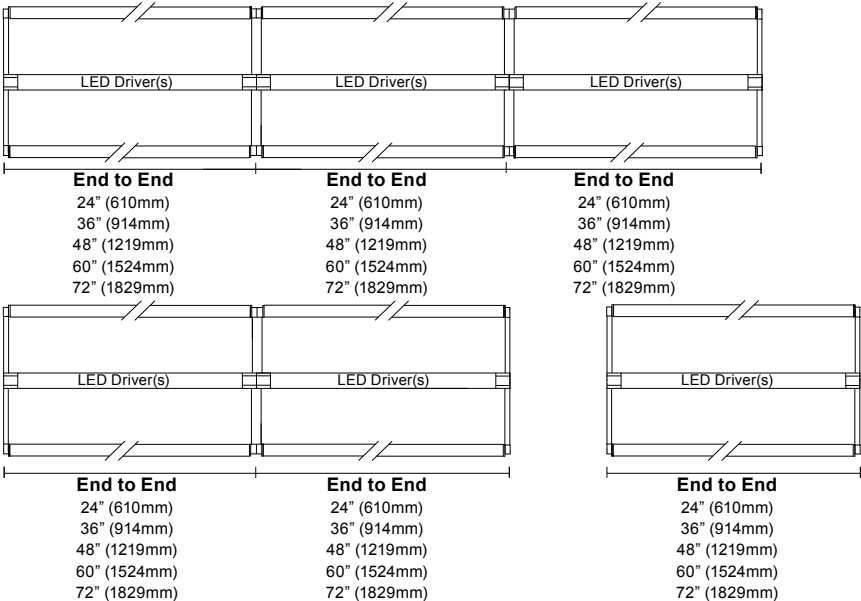


Layout

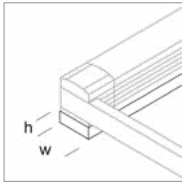
Single Sided (K1)



Double Sided (K2)



Mounting Options



Vode Strut
(provided with systems
with multiple rail sections)
h 0.8" (20mm)
w 1.61" (41mm)

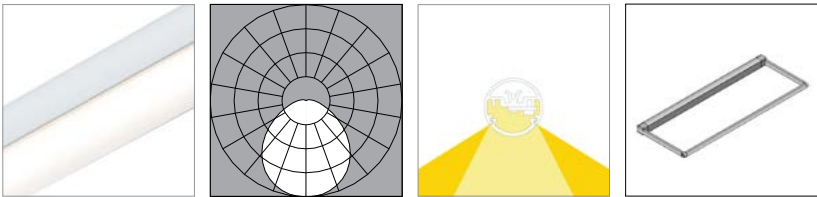
Power and Controls

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 Power Guide for details.
Input Voltage	120V - 277V, 50/60hz.
Power Location	Integral power. See Power Guide for details.

Performance | Zipper Board Optics

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

Diffuse, round (2)



L80 >60,000 hours

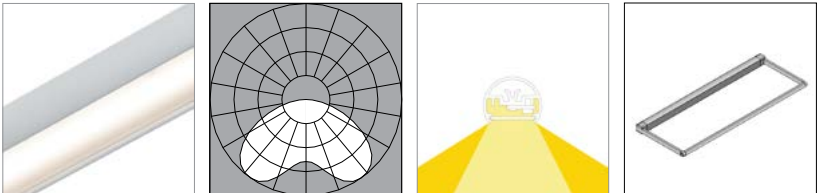
90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	114	115
Lumens per foot (305mm)	373	385	392	396
Watts per foot (305mm)	3.5	3.5	3.5	3.5
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	125	129	132	133
Lumens per foot (305mm)	746	769	785	793
Watts per foot (305mm)	6.0	6.0	6.0	6.0
High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	120	122	123
Lumens per foot (305mm)	1416	1461	1491	1506
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Performance | Zipper Board Optics

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

120° Batwing (G1)



L80 >60,000 hours

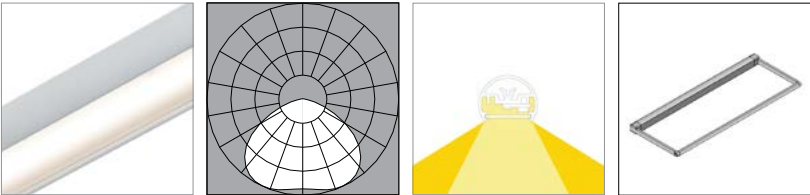
90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	90
Lumens per foot (305mm)	315	325	332	335
Watts per foot (305mm)	3.8	3.8	3.8	3.8

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	112
Lumens per foot (305mm)	630	650	663	670
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	104
Lumens per foot (305mm)	1197	1235	1260	1273
Watts per foot (305mm)	12.4	12.4	12.4	12.4

120° FlyWing (G2)



L80 is >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	99
Lumens per foot (305mm)	319	329	336	339
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	113	114
Lumens per foot (305mm)	639	659	672	679
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	103	105	106
Lumens per foot (305mm)	1213	1252	1277	1290
Watts per foot (305mm)	12.3	12.3	12.3	12.3

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