vode Adaptive Architectural Lighting Systems

Spec Guide

WingRail | Stack | 117

Direct lighting for library stack and display applications.

Red List Approved
Declare.

WingRail, direct or indirect, 370° rotation.

Benefits & Features

Minimal Profile, Robust Design
Asymmetric profile, 1.14 in x 2.12 in.

Superior Light Quality & Performance
Output up to 1376 lm/ft (HO), 121 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

Adaptive Power
Integral Power, full range dimming power for all protocols.

Better Optics & Beam Control Options
Asymmetric distribution. White or black Baffle, EdgeSoft™ lens or diffuse lens and narrow optics available. Directional control with 360° rotation, angle gauge and lock.

Double-sided

Single-sided

Build Your Specification

117-WG				ST	18	▸▸

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

▸▸	IP				Z	▸▸

Power Location	Power Type	Voltage	Emergency Power	LED Type
Integral Power	**AE** 0-10V, 1.0% Dimming	**1** 120v	**0** No Emergency Power	**Z** Zipper Board
IP Integral Power	**AT** 0-10V, 0.1% Dimming	**2** 120V - 277V	**ZZ** Emergency Power	
	AD DALI, 0.1% Dimming	**X** Not Yet Specified	*(specify requirements)*	
	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]			
	*See **Power Guide** for driver features & limitations.*			

▸▸					

Lumen Output	Color Temperature	Optics	Finish	Options
LO Low Output	**90+ CRI**	**Zipper Board (Z)**	**AL** Clear Anodized	**0** None
SO Standard Output	**27** 2700K	**WB** White Baffle with EdgeSoft™	**WH** White Painted	**ZZ** Other (please specify)
HO High Output*	**30** 3000K	**BB** Black Baffle with Edge Soft	**BL** Black Anodized	
ZZ Other (please specify)	**35** 3500K	**C1** Clear with Edge Soft	**ZZ** Other (please specify)	
*See **IES Files** page for details.*	**40** 4000K	**D1** Diffuse		
*See **Power Guide** for driver features & limitations.*	**ZZ** Other (please specify)			

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.*

*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.
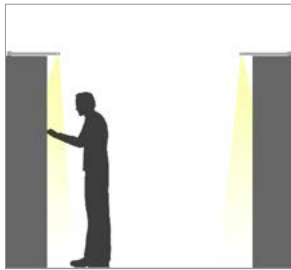
Applications

Library Stack and Display

Tualatin Public Library, Tualatin, OR

Andre Tchelistcheff Architects, New York, NY

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

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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*

TM65NA

CIBSE & ASHRAE on Embodied Carbon

Vode recognizes TM65NA as the highest standard for understanding the embodied carbon of our fixtures.

Developed with ASHRAE, it adapts CIBSE's TM65 for North America, ensuring accurate regional assessments. It must be used alongside TM65 and follows TM65LA's framework.

System: 117 | WingRail |Stack Mount
Embodied Carbon (kg CO$_2$e): 63.77*

***Note**: Embodied Carbon, expressed in kilograms of CO$_2$e is calculated using a 48" fixture **and includes the LED driver.**

Click here to learn more *CIBSE, ASHRAE*.

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.

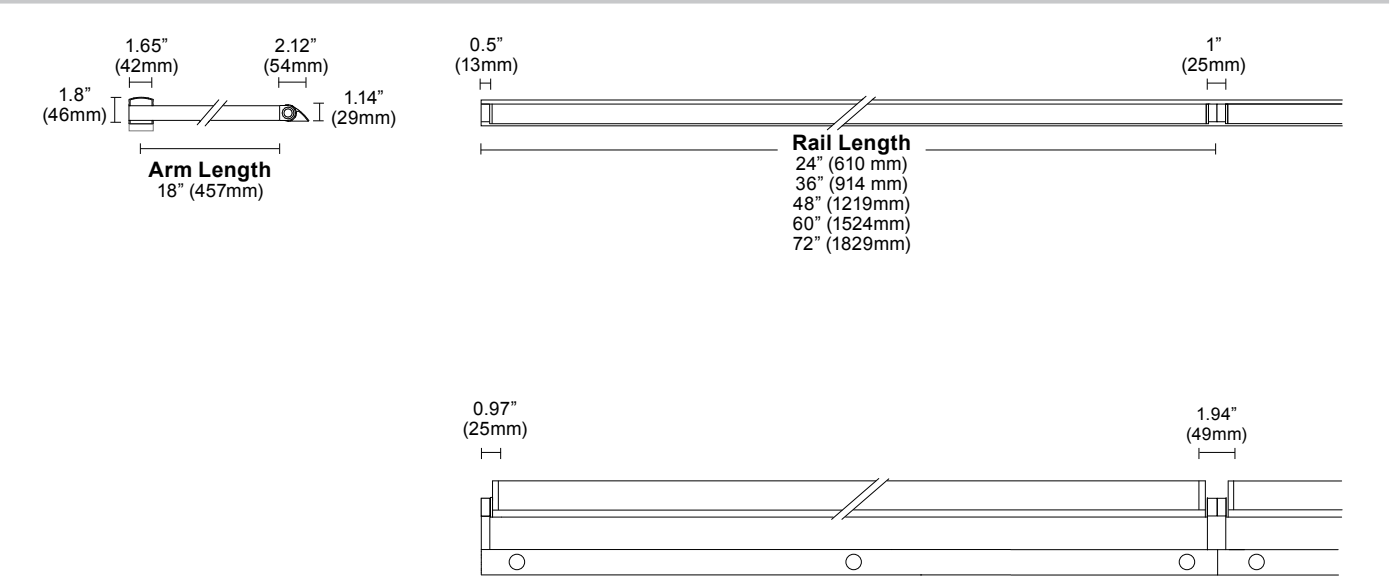Click here to learn more: *US Department of Commerce*

Structure

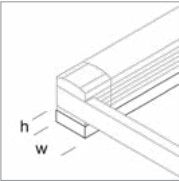|	
Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm).
Rail Dimensions	1.14" (29mm) x 2.12" (54mm).
Construction	Extruded and machined 6063 aluminum.
Mounting	Single or double-sided stack mount to integral power housing.
Arm Length	18" (457mm). Non-standard arm lengths available. Single-sided requires arm 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).
Baffle	6063 Aluminum, RoHS compliant painted finish.
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)*
Integral Power Housing	Extruded and machined 6063 aluminum.

Dimensions

1.65"
(42mm)

2.12"
(54mm)

1.8"
(46mm)

1.14"
(29mm)

Arm Length
18" (457mm)

0.5"
(13mm)

1"
(25mm)

Rail Length
24" (610 mm)
36" (914 mm)
48" (1219mm)
60" (1524mm)
72" (1829mm)

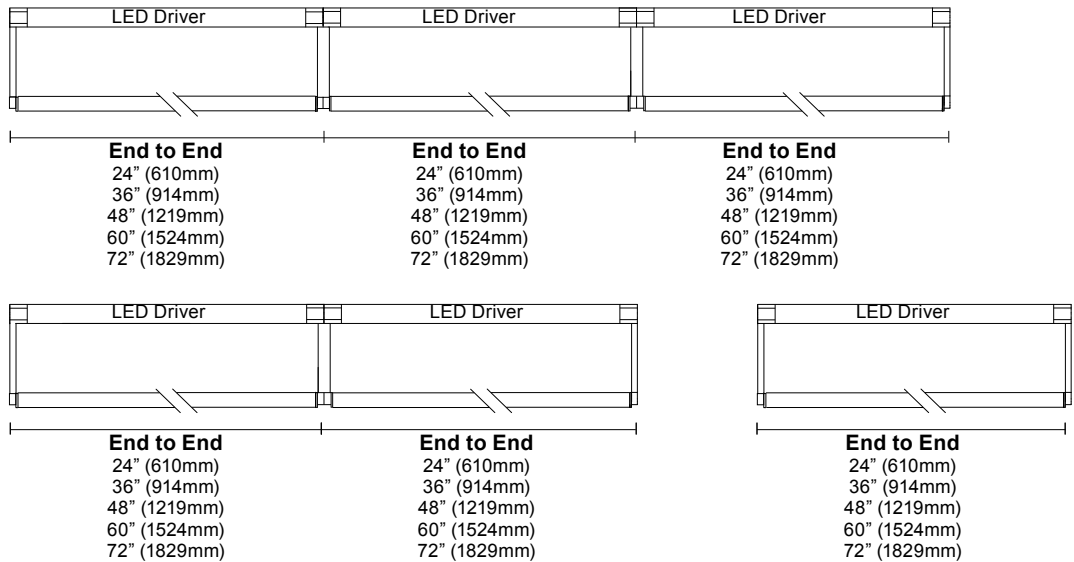0.97"
(25mm)

1.94"
(49mm)

Mounting Options

h
w

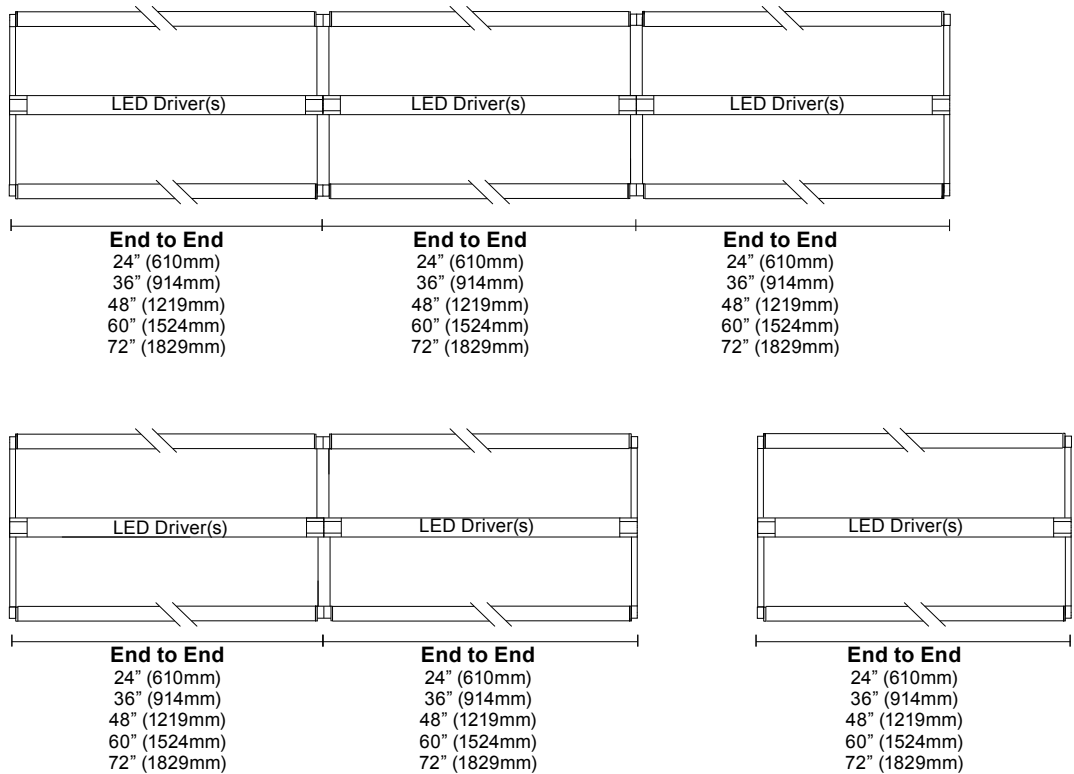*Vode Strut*
(provided with systems
with multiple rail sections)
h 0.8" (20mm)
w 1.61" (41mm)
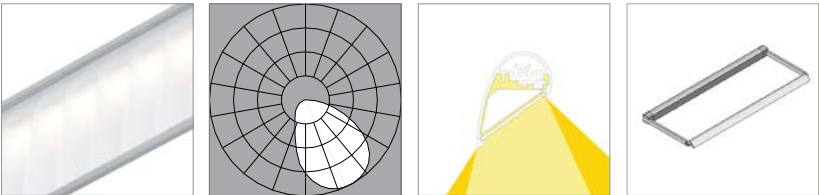
Layout

Single Sided (K1)

LED Driver	LED Driver	LED Driver
End to End	**End to End**	**End to End**
24" (610mm)	24" (610mm)	24" (610mm)
36" (914mm)	36" (914mm)	36" (914mm)
48" (1219mm)	48" (1219mm)	48" (1219mm)
60" (1524mm)	60" (1524mm)	60" (1524mm)
72" (1829mm)	72" (1829mm)	72" (1829mm)

LED Driver	LED Driver	LED Driver
End to End	**End to End**	**End to End**
24" (610mm)	24" (610mm)	24" (610mm)
36" (914mm)	36" (914mm)	36" (914mm)
48" (1219mm)	48" (1219mm)	48" (1219mm)
60" (1524mm)	60" (1524mm)	60" (1524mm)
72" (1829mm)	72" (1829mm)	72" (1829mm)

Double Sided (K2)

LED Driver(s)	LED Driver(s)	LED Driver(s)
End to End	**End to End**	**End to End**
24" (610mm)	24" (610mm)	24" (610mm)
36" (914mm)	36" (914mm)	36" (914mm)
48" (1219mm)	48" (1219mm)	48" (1219mm)
60" (1524mm)	60" (1524mm)	60" (1524mm)
72" (1829mm)	72" (1829mm)	72" (1829mm)

LED Driver(s)	LED Driver(s)	LED Driver(s)
End to End	**End to End**	**End to End**
24" (610mm)	24" (610mm)	24" (610mm)
36" (914mm)	36" (914mm)	36" (914mm)
48" (1219mm)	48" (1219mm)	48" (1219mm)
60" (1524mm)	60" (1524mm)	60" (1524mm)
72" (1829mm)	72" (1829mm)	72" (1829mm)

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 power. *See **Power Guide** for details.*

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
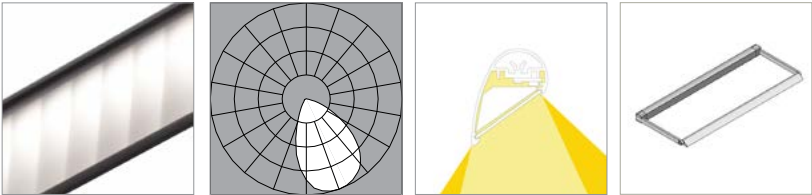
White Baffle with EdgeSoft™ (WB)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	83	84
Lumens per foot (305mm)	271	280	285	288
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	97
Lumens per foot (305mm)	542	560	571	577
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	89	90
Lumens per foot (305mm)	1031	1063	1085	1096
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Black Baffle with EdgeSoft™ (BB)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	50	51	52	53
Lumens per foot (305mm)	170	175	179	180
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	61
Lumens per foot (305mm)	339	350	357	361
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	53	55	56	56
Lumens per foot (305mm)	644	665	678	685
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).
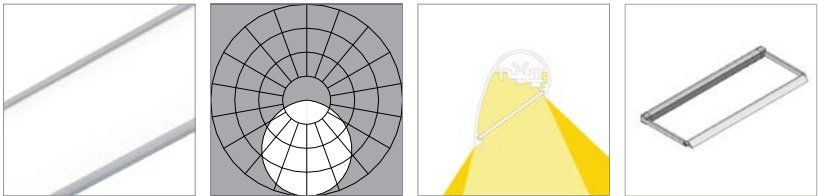
Clear with EdgeSoft™ (C1)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	101
Lumens per foot (305mm)	327	337	344	348
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	113	115	116
Lumens per foot (305mm)	654	675	688	695
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	108
Lumens per foot (305mm)	1243	1282	1308	1321
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Diffuse (D1)

L80 is >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	72	73
Lumens per foot (305mm)	234	241	246	248
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	81	83	83
Lumens per foot (305mm)	467	482	492	497
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	73	75	77	77
Lumens per foot (305mm)	888	916	935	944
Watts per foot (305mm)	12.3	12.3	12.3	12.3