



Spec Guide

WingRail | Ceiling-Wall Arm | 107



Direct or indirect lighting for wall wash, grazing and ceiling wash applications.



WingRail: direct or indirect, 370° rotation.

Benefits & Features

Minimal Profile, Robust Design

Asymmetric profile, 1.14" (29mm) x 2.12" (54mm).

Superior Light Quality & Performance

Output up to 1376 lm/ft (4516 lm/m) (HO), 121 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

Adaptive Power

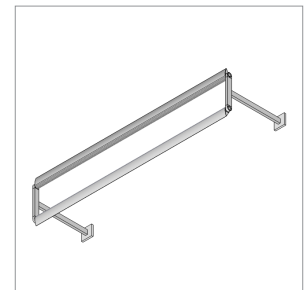
Full range dimming power for all protocols. Integral or remote power available.

Better Optics & Beam Control Options

Asymmetric distribution. White or black baffle, EdgeSoft lens or diffuse lens and narrow optics available. Directional control with 370° rotation, angle gauge and lock.



Integral Power



Double Rail with Tee, Small Square Canopy

Build Your Specification

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

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

»			»
Power Location	Power Type	Voltage	
Integral Power	Flexible 1 to 1 Power	1 120V 2 120V - 277V X Not Yet Specified	
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)		
Remote Power	Optimized Power	Add 'O' to power type example: AEO, ATO...etc. ³	
Specify mounting and harness length code example: 2R25, 4R25...etc.		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. ⁴	
Mounting Option	Wire Harness	ZZ Other (please specify)	
00 Zero Canopy 0B Zero Block 2R Small Round Canopy 2S Small Square Canopy 4R Large Round Canopy 4S Large Square Canopy	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	See Power Guide for driver features & limitations.	

»						»
Emergency Power	LED Type	Lumen Output	Color Temperature	Optics	Sensors	
0 No Emergency Power ZZ Emergency Power (specify requirements)	Z Zipper Board B Button Board ⁵	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.	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.	Zipper Board (Z) WB White Baffle with EdgeSoft™ BB Black Baffle with EdgeSoft C1 Clear with EdgeSoft D1 Diffuse Button Board (B) 19 19° x 48° Oval 36 36° Medium	0 None ZZ Sensor (specify requirements)	

»	
Finish	Options
AL Clear Anodized WH White Powder Coat BL Black Anodized ZZ Other (please specify)	0 None 9 9' 18/3 Cord and Plug ⁶ CP Chicago Plenum ⁷

NOTES & LIMITATIONS

- ¹ 1.25" arm length is not available with Zero Block (0B).
- ² For arms 18" and longer, wall-mounted systems include a cable tie-back.
- ³ Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.
- ⁴ VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.
- ⁵ Button Board (B) is not available with 90 CRI.
- ⁶ 9' 18/3 Cord and Plug only available with Remote Power (RP).
- ⁷ Chicago Plenum not applicable for wall arm mounting.

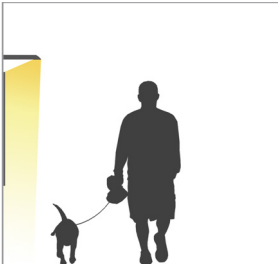
Standard 5 Year Limited Warranty. See details [here](#). Contact factory for options on Limited Warranties up to 20 years.

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

Interior Corporate, Retail, and Display



HBO Studio, Seattle, WA



University of Pennsylvania, Philadelphia, PA

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.

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

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:

- 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](https://www.living-future.org/declare)

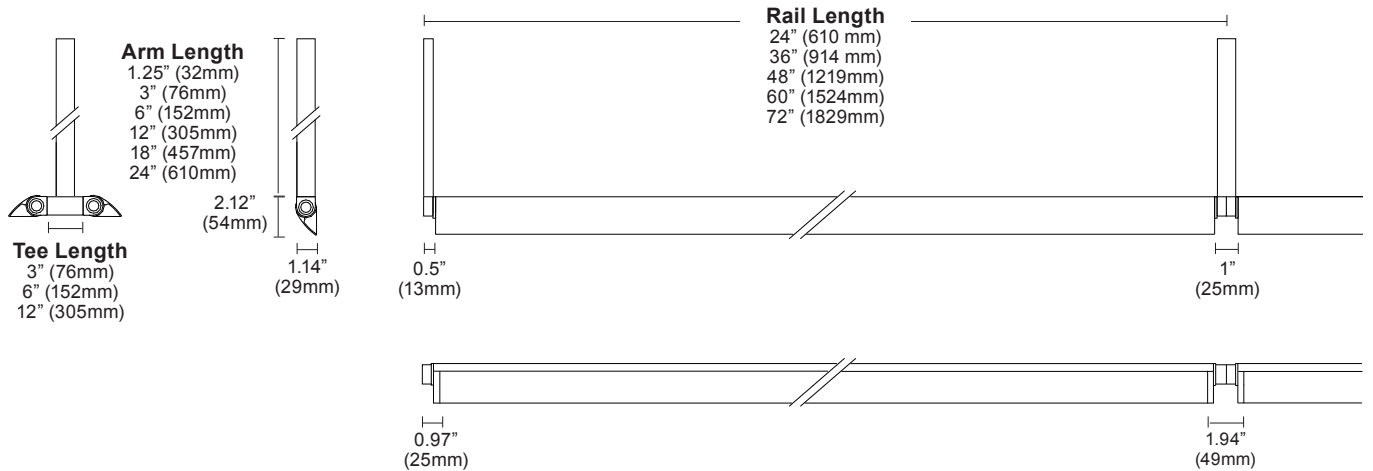
Structure

Rail Lengths	24" (610mm) - 72" (1829mm). Modified lengths available. See Rail Length Chart for more details.
Rail Dimensions	1.14" (29mm) x 2.12" (54mm) x length.
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). Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-85%, non-condensing.
System Weight	1.04 lbs per ft (0.47kg per 305mm) Power supply and housing not included.

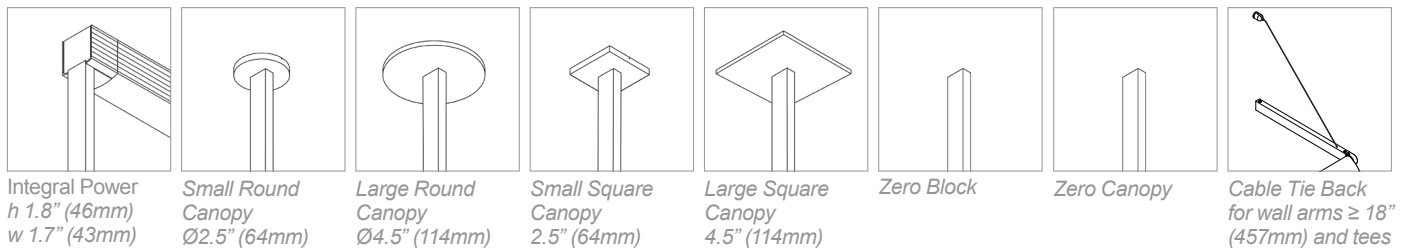
Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Baffle	6063 Aluminum, RoHS compliant painted finish.
Button Optics	High-impact cast acrylic glass (PMMA), polycarbonate (PC) holder.
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



Mounting Options



Integral Power
h 1.8" (46mm)
w 1.7" (43mm)

Small Round
Canopy
Ø2.5" (64mm)

Large Round
Canopy
Ø4.5" (114mm)

Small Square
Canopy
2.5" (64mm)

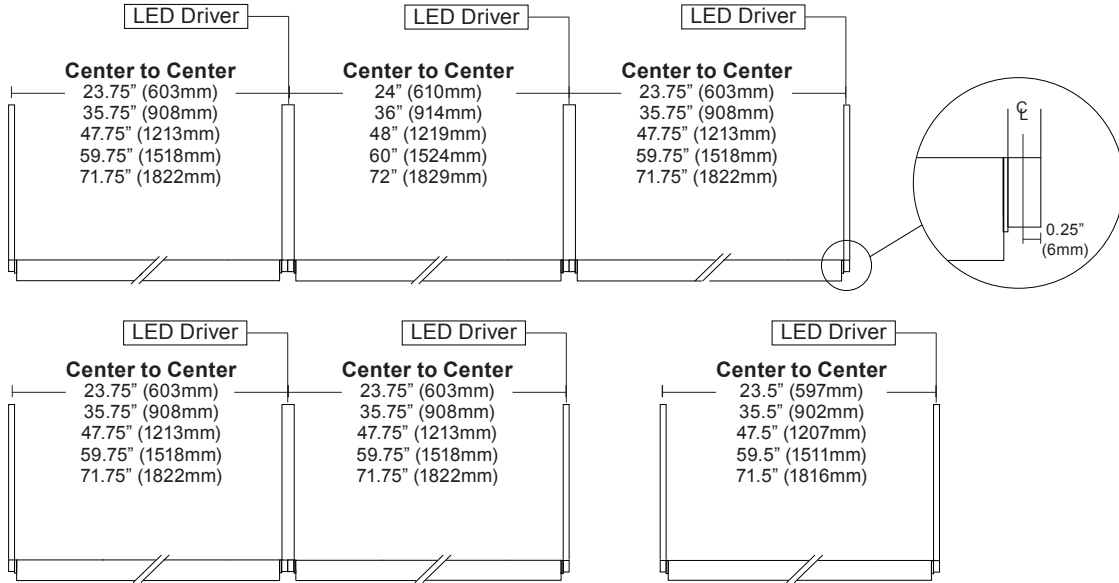
Large Square
Canopy
4.5" (114mm)

Zero Block

Zero Canopy

Cable Tie Back
for wall arms ≥ 18"
(457mm) and tees
≥ 6" (152mm).

Layout



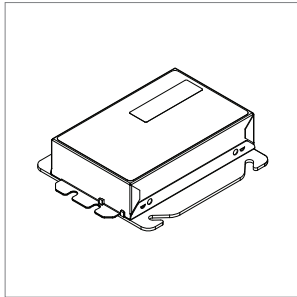
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) [See Guide](#) for details.

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

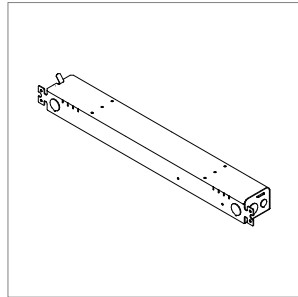
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

Remote Brick Power Housing



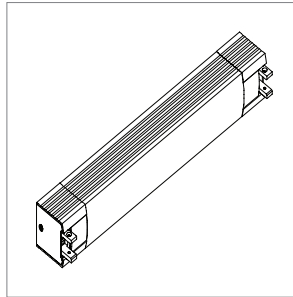
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



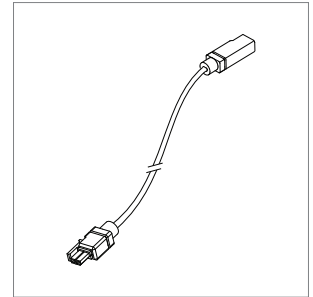
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

Integral Power



Houses integral power supply. 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

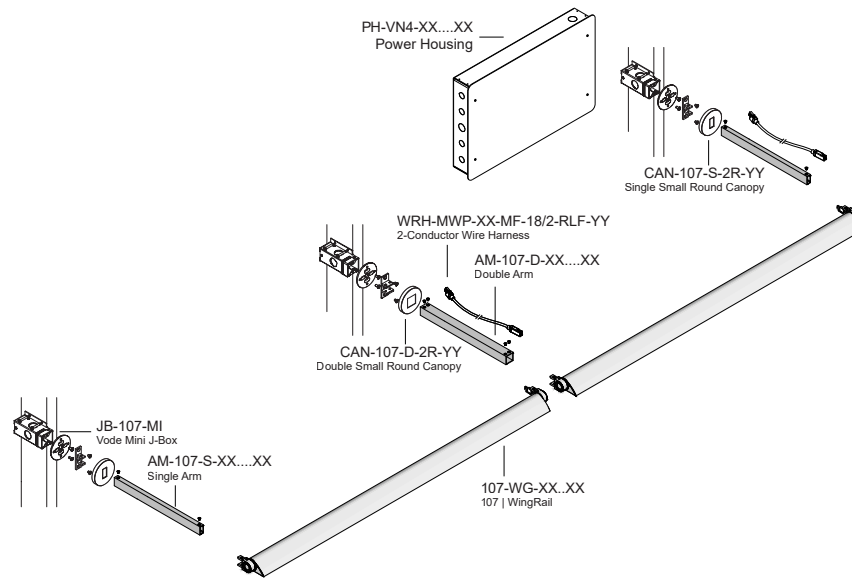


Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

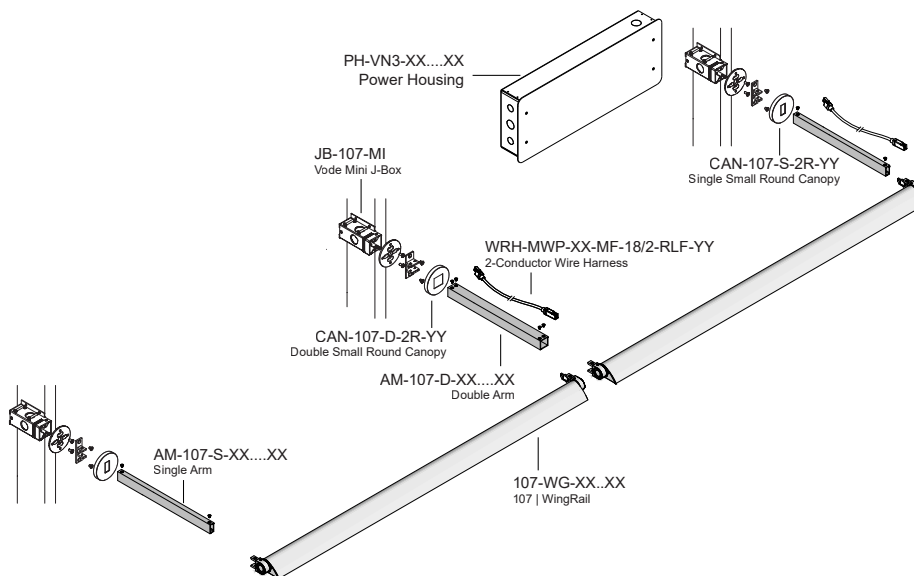
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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



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.

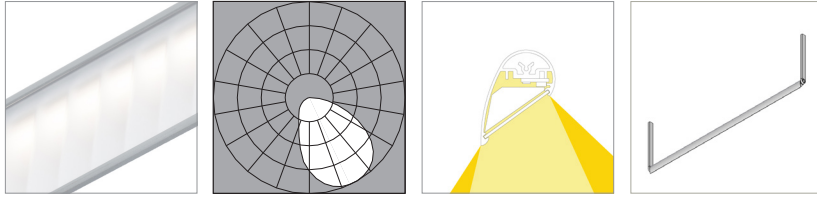


Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

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

White Baffle with EdgeSoft (WB)



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	75	77	78	80	64	66	68	69	
Lumens per foot (305mm)	277	285	291	297	239	246	251	256	
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	

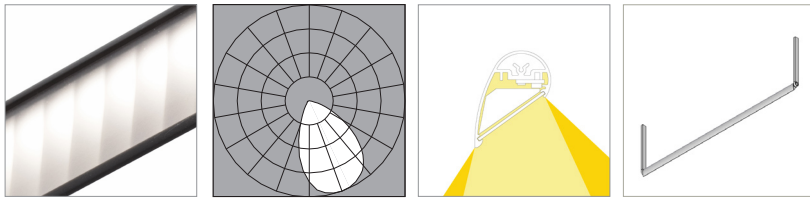
Standard Output (SO)

Efficacy - Lumens per Watt	92	95	97	99	80	82	84	85
Lumens per foot (305mm)	553	571	583	594	477	492	502	512
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	86	89	90	92	74	77	78	80
Lumens per foot (305mm)	1052	1085	1107	1129	907	935	954	973
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

Black Baffle with EdgeSoft (BB)



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	46	48	48	49	40	41	42	43	
Lumens per foot (305mm)	170	176	179	183	147	151	155	158	
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	57	59	60	61	49	51	52	53
Lumens per foot (305mm)	341	351	359	366	294	303	309	315
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1

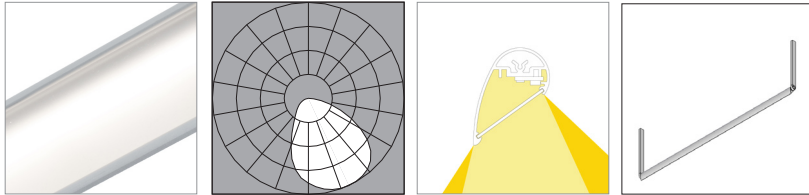
High Output (HO)

Efficacy - Lumens per Watt	53	55	56	57	46	47	48	49
Lumens per foot (305mm)	647	668	681	695	558	576	587	599
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

Performance | Zipper Board Optics

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

Clear with EdgeSoft (C1)



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	97	78	81	82	84
Lumens per foot (305mm)	337	348	355	362	291	300	306	312
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

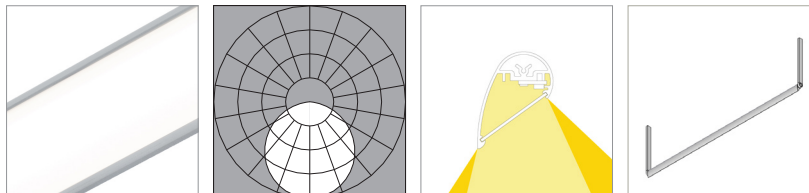
Standard Output (SO)

Efficacy - Lumens per Watt	112	116	118	121	97	100	102	104
Lumens per foot (305mm)	675	696	710	724	582	600	612	624
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	105	108	110	112	90	93	95	97
Lumens per foot (305mm)	1282	1322	1349	1376	1105	1140	1163	1187
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

Diffuse (D1)



L80 is >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	65	67	69	70	56	58	59	61
Lumens per foot (305mm)	243	250	255	261	209	216	220	225
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	82	84	86	88	71	73	74	76
Lumens per foot (305mm)	489	505	515	525	442	435	444	453
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1

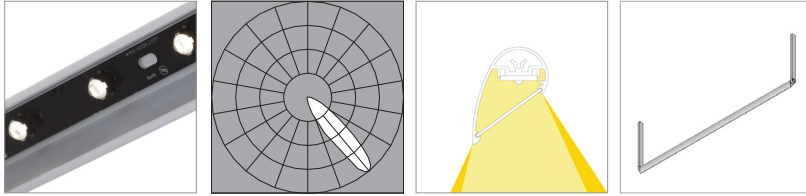
High Output (HO)

Efficacy - Lumens per Watt	76	79	80	82	66	68	69	71
Lumens per foot (305mm)	934	964	984	1003	806	831	848	865
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

Performance | Button Board Optics

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

19° x 48° Oval (19)



L80 >70,000 hours

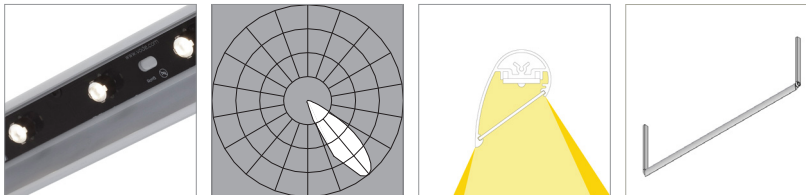
80 CRI (80min., 84 avg.)

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	62	64
Lumens per foot (305mm)	420	438	456	474
Watts per foot (305mm)	7.3	7.3	7.3	7.3

High Output (HO)

Efficacy - Lumens per Watt	50	52	55	57
Lumens per foot (305mm)	636	662	690	717
Watts per foot (305mm)	12.6	12.6	12.6	12.6

36° Medium (36)



L80 >70,000 hours

80 CRI (80min., 84 avg.)

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	67	70	73
Lumens per foot (305mm)	476	496	516	537
Watts per foot (305mm)	7.3	7.3	7.3	7.3

High Output (HO)

Efficacy - Lumens per Watt	57	60	63	65
Lumens per foot (305mm)	724	754	786	817
Watts per foot (305mm)	12.6	12.6	12.6	12.6

Copyright © 2022 Vode Lighting LLC. All rights reserved. Vode, the Vode logo, BoxRail, FlyWing, MicroBaffle, Button Board, Zipper Board, Zero Canopy, Zero Block, VodeNODE and other names are either registered trademarks or trademarks of Vode Lighting LLC in the United States and may be registered in other countries. All other trademarks listed herein belong to their respective owners. Due to ongoing innovation, specification details may change without notice.