



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

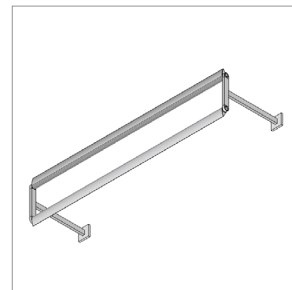
Full range dimming power for all protocols. Integral or remote power available.

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
See Rail Length Chart for more details					

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

0						0
Emergency Power		LED Type	Lumen Output*	Color Temperature	Optics	Sensors
0	No Emergency Power	Z	LO	80+ CRI	Zipper Board (Z)	0
ZZ	Emergency Power	B	SO	27 2700K	WB	None
	(specify requirements)		HO	30 3000K	White Baffle with EdgeSoft™	Sensor
			ZZ	35 3500K	BB	(specify requirements)
				40 4000K	C1	
					Clear with EdgeSoft	
					D1	
					Diffuse	
				90+ CRI	Button Board (B)	
				279 2700K	19° x 48° Oval	
				309 3000K	36° Medium	
				359 3500K		
				409 4000K		
				ZZ		
				Tunable White Available		
				See Guide for details		

Finish	Options
AL Clear Anodized WH White Painted BL Black Anodized ZZ Other (please specify)	0 None 9 9' 18/3 Cord and Plug 4

NOTES & LIMITATIONS

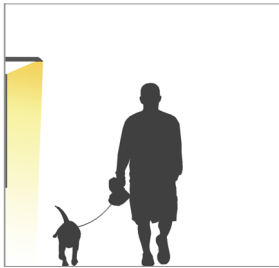
¹ 1.25" arm length is not available with Zero Block (0B)² For arms 18" and longer, wall-mounted systems include a cable tie-back³ Button Board (B) is not available with 90 CRI⁴ 9' 18/3 Cord and Plug only available with Remote Power (RP)5 Year Limited Warranty. See full Vode warranty description [here](#) or at [vode.com](#).

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



Applications

Interior Corporate, Retail, and Display



HBO Studio, Seattle, WA



University of Pennsylvania, Philadelphia, PA

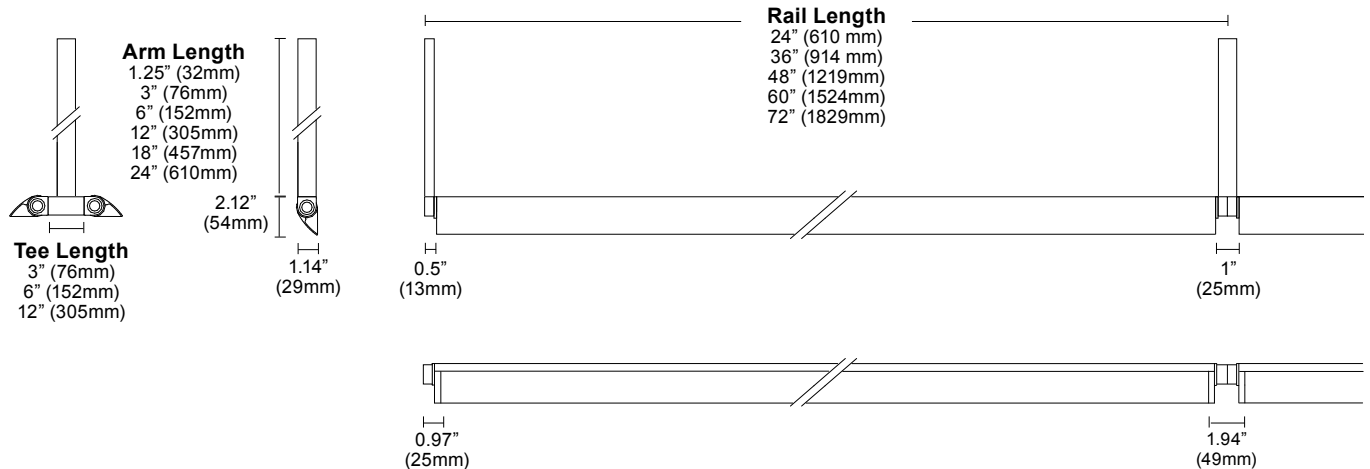
Structure

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	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) <i>Power supply and housing not included.</i>

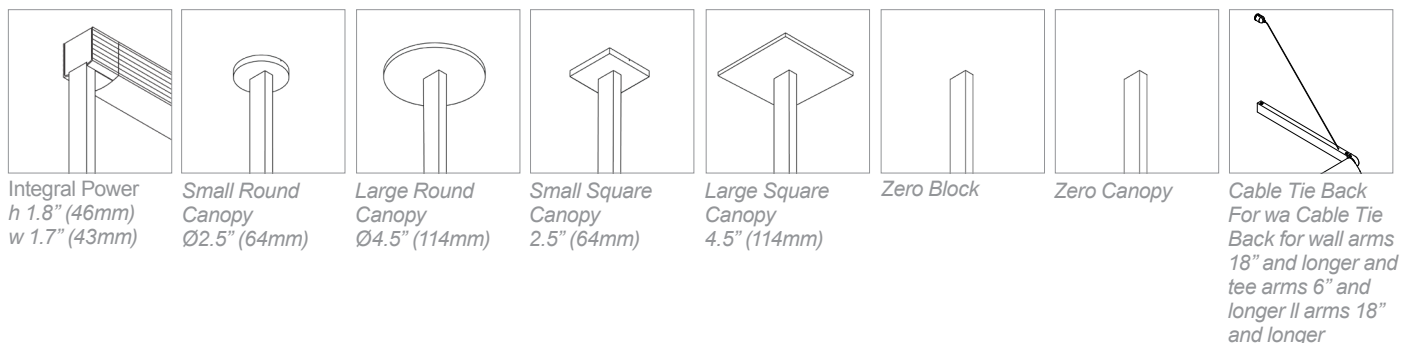
Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant
Lens	High-impact extruded acrylic glass (PMMA)
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 (<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)	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

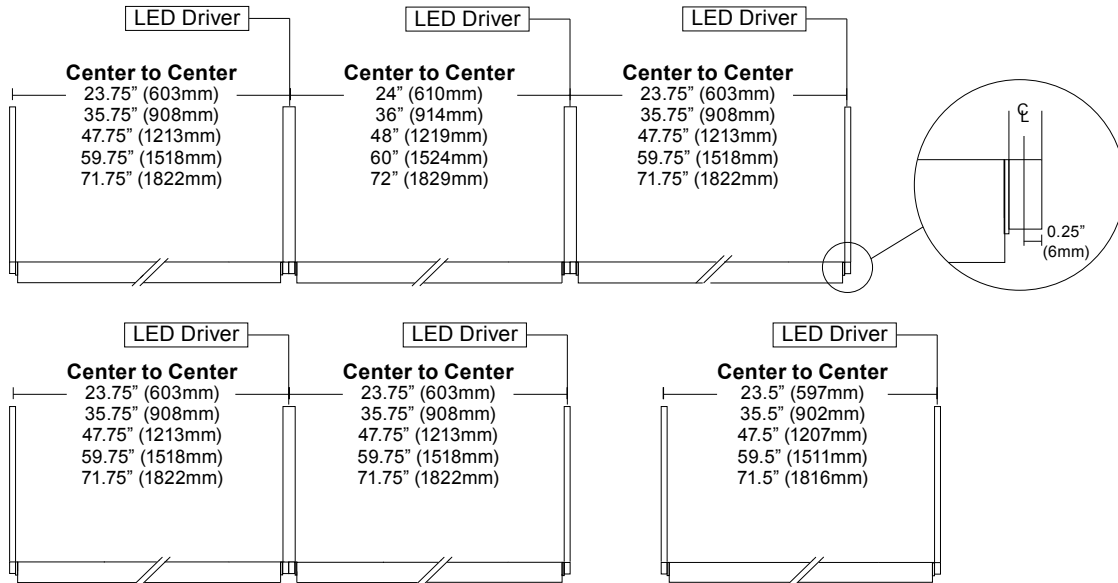
Dimensions



Mounting Options



Layout



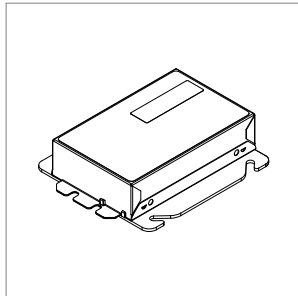
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag)

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 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.

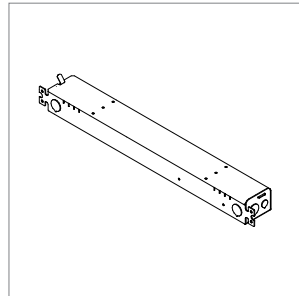
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

Remote Brick Power Housing



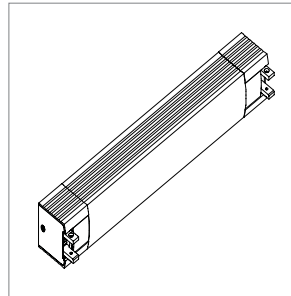
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



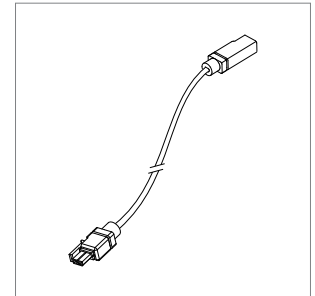
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

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

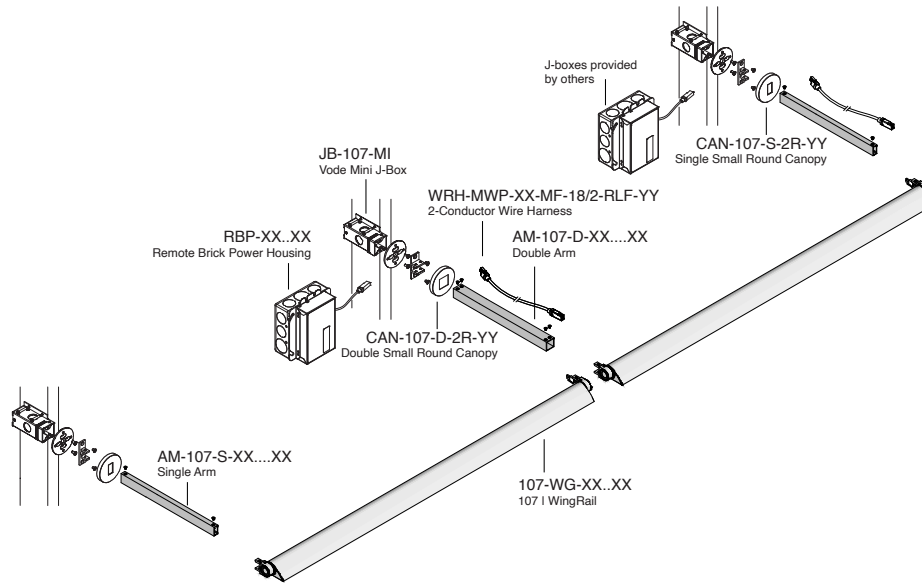


Wire harness connects driver to rail. Wire harness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

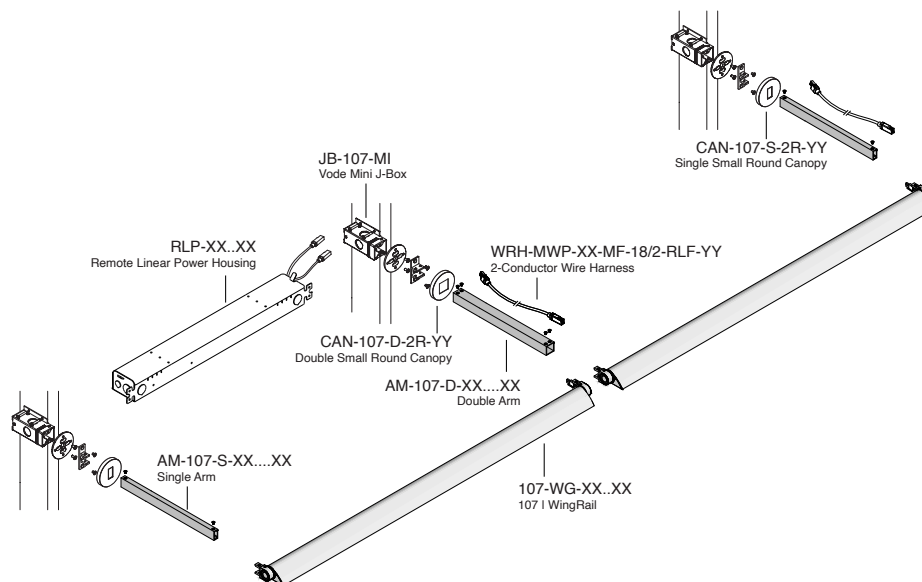
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

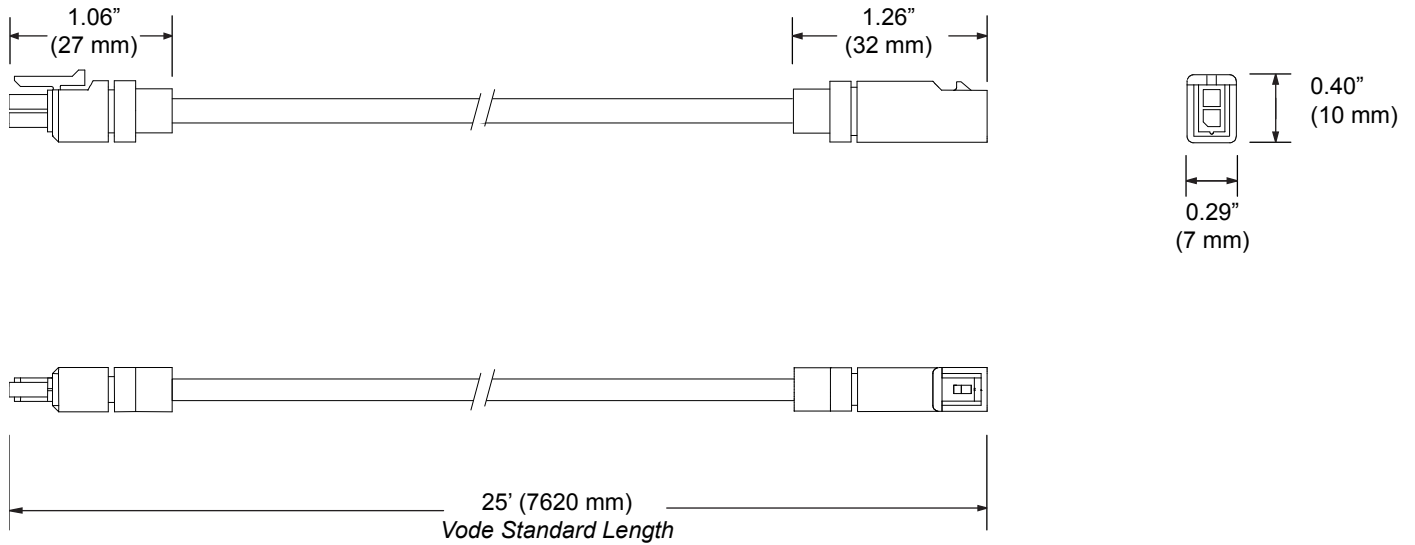


Note: Drawings not to scale, for reference only.

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.

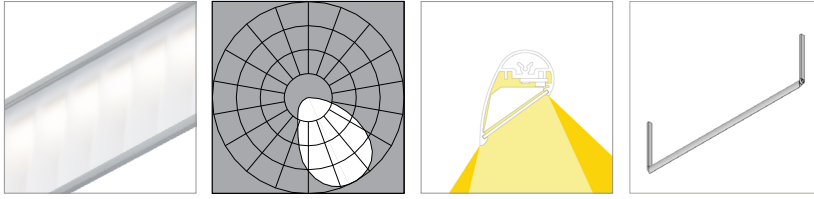


Note: Drawings not to scale, for reference only.

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.

White Baffle with EdgeSoft (WB)



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	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

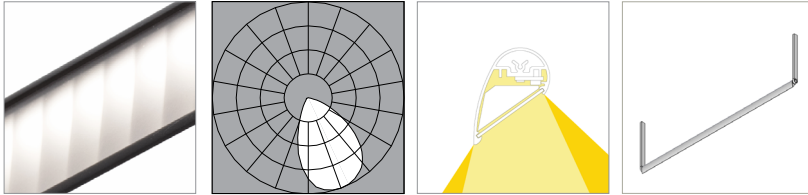
Standard Output (SO)

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

	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	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

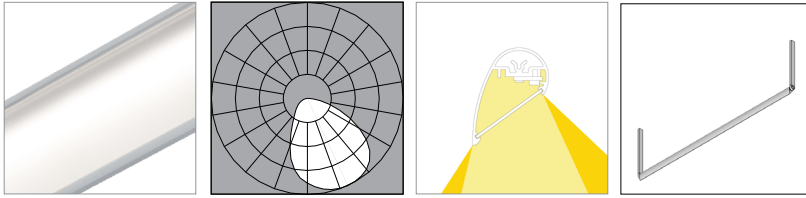
High Output (HO)

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 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.

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

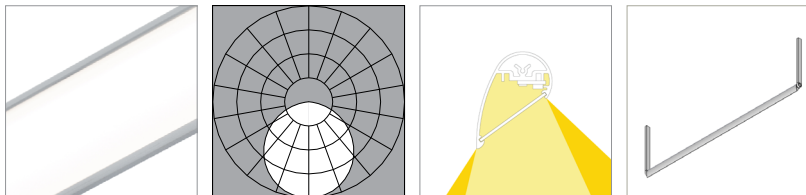
Standard Output (SO)

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

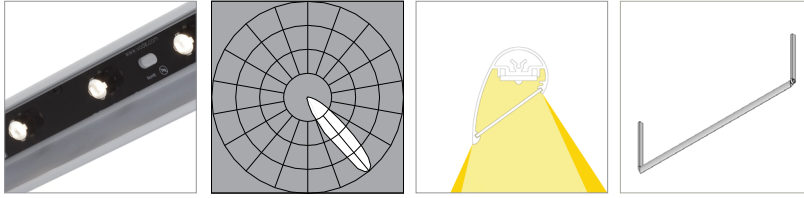
High Output (HO)

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 LED

Button Board™ has 6 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

19° x 48° Oval (19)



L80 >70,000 hours

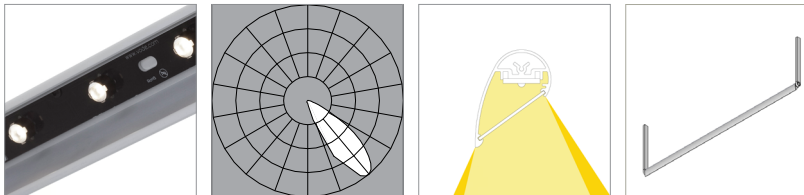
80 CRI (80min., 84 avg.)

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

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