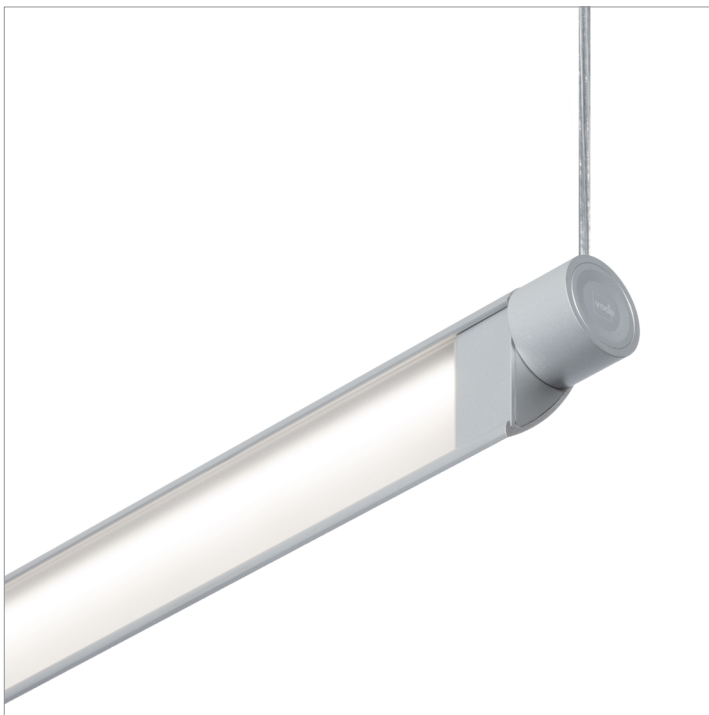**vode®** Adaptive architectural lighting systems

WingRail® | Ceiling Cable | 107

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

WingRail: direct or indirect, infinite rotation.

Benefits & Features

Minimal Profile, Robust Design
Asymmetric profile, 1.14" (29mm) x 2.12" (54mm).
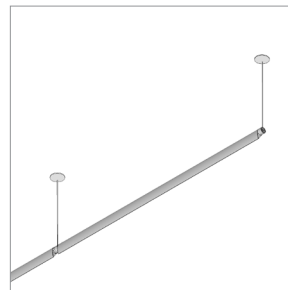
Superior Light Quality & Performance
Output up to 1376 lm/ft (4516 lm/m) (HO), 121 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.
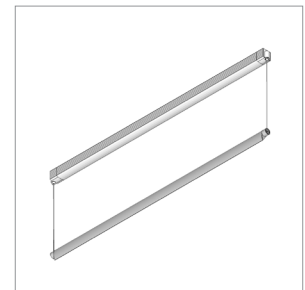
Adaptive Power
Full range dimming power for all protocols. Integral or remote power available.

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

Small Round Canopy, Remote Power

Integral Power

Build Your Specification

107-WG	01			CC	▸▸

System & Rail Type

107-WG WingRail

Single/Double Rail

01 Single Rail

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)
72	72" (1829mm)
ZZ	Other rail length or layout (please specify)

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

Mounting

CC Ceiling Cable

Cable Length

Field adjustable.

48	48" cable (1219mm)
96	96" cable (2438mm)
ZZ	Other (please specify)

▸▸				0	▸▸

Power Location

Integral Power

IP Integral Power

Remote Power

Small Round Canopy

2R25	25' (7.62m) Wire Harness
2R50	50' (15.24m) Wire Harness
2R75	75' (22.86m) Wire Harness
2R100	100' (30.48m) Wire Harness

Large Round Canopy

4R25	25' (7.62m) Wire Harness
4R50	50' (15.24m) Wire Harness
4R75	75' (22.86m) Wire Harness
4R100	100' (30.48m) Wire Harness

Power Type*

Flexible 1 to 1 Power

AE	eldoLED 0-10v, 1.0% Dimming
AT	eldoLED 0-10v, 0.1% Dimming
AD	eldoLED DALI, 0.1% Dimming
AX	eldoLED DMX, 100-0% Dimming
AH	Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE1
AH2	Hi-lume 1% 2-wire LTEA2W (120V forward phase only)

Optomized Power

AEO	eldoLED 0-10v, 1.0% Dimming
ATO	eldoLED 0-10v, 0.1% Dimming
ADO	eldoLED DALI, 0.1% Dimming
AXO	eldoLED DMX,100-0% dimming
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)*

▸▸				0	

LED Type

Z	Zipper Board™
B	Button Board™ [1]

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)

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

Sensors

0	None
ZZ	Sensor *(specify requirements)*

▸▸					

Finish

AL	Clear Anodized
WH	White Painted
BL	Black Anodized
ZZ	Custom finishes available. Please specify RAL #

Options

0	None
9	9' 18/3 Cord and Plug [2]

NOTES & LIMITATIONS

[1] *Button Board™ (B) is not available in 90 CRI.*

[2] *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.
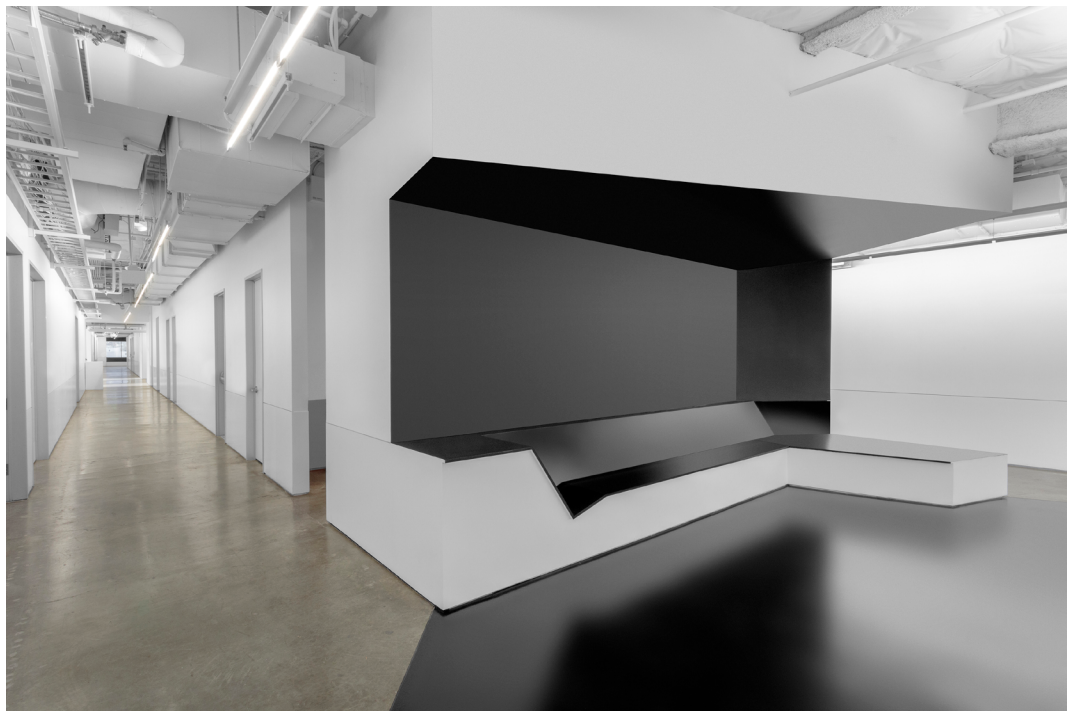
Applications

Interior Corporate, Educational and Retail

JCP Architects, Bellevue, WA

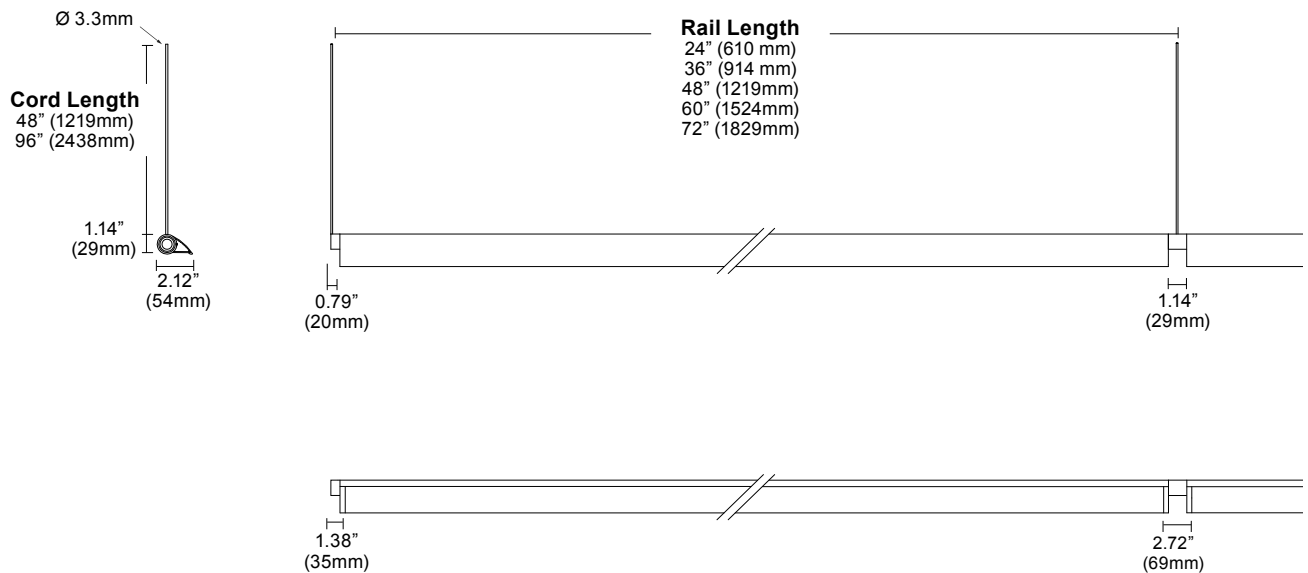ArtCenter College of Design, Arroyo Parkway, Pasadena, CA

Structure

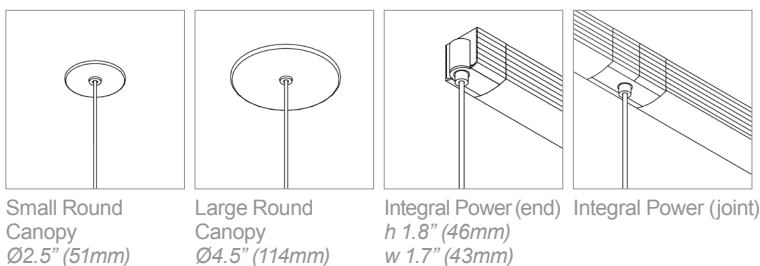|	
Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm)
Rail Dimensions	1.14" (29mm) x 2.12" (54mm)
Construction	Extruded and machined 6063 aluminum
Mounting	Ceiling mount to jbox or integral power driver housing
Cable Length	48" (1219mm) and 96" (2438mm) available. Field adjustable. Non-standard cable lengths available.
System Run Length	24" (610mm) minimum. Unlimited maximum length.
Operating Temperature	32°F to 104°F (0°C to 40°C)
Humidity	0-85%, non-condensing
System Weight	0.74lbs per ft (0.34kg per 305mm) *Power supply and housing not included.*

Materials

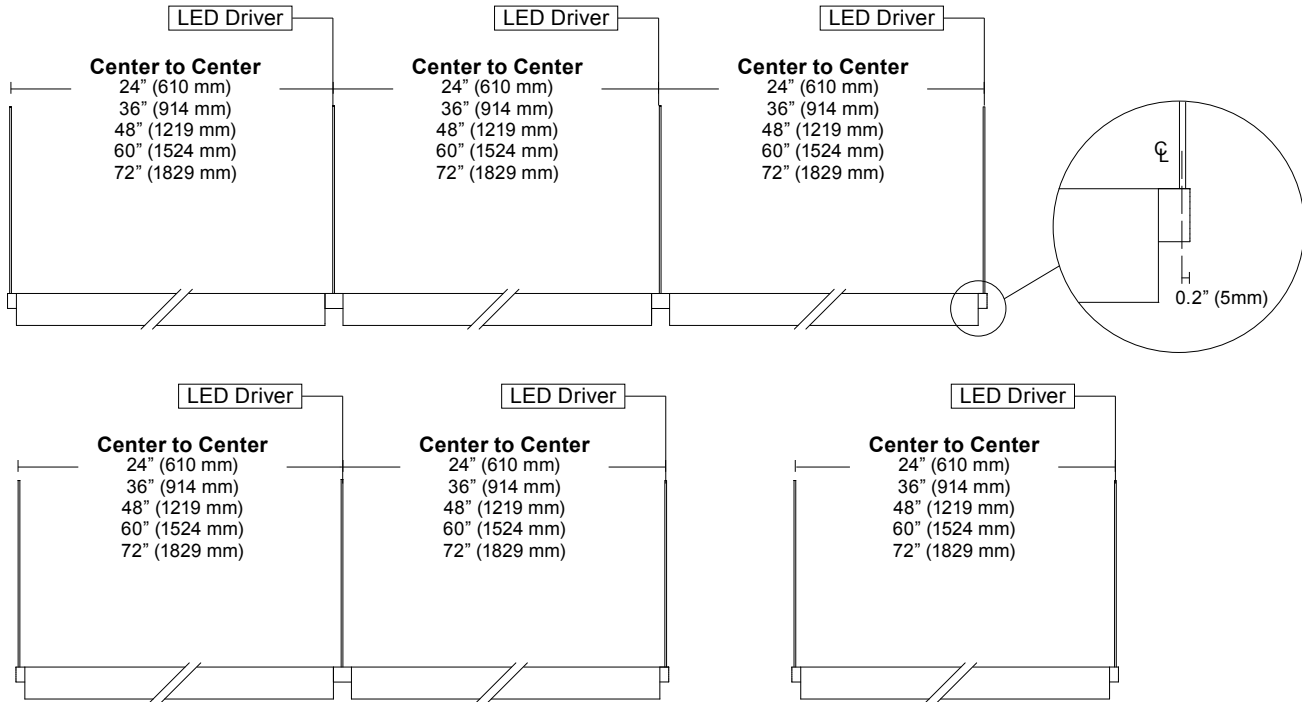|	
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant
Lens	High-impact extruded acrylic glass (PMMA)
Baffle	6063 aluminum, RoHS compliant painted finish
Suspension Cable	Ø3.3mm, 22/2 AWG, PVC or TPE and RoHS compliant *(PVC free in 2020)*
Power Cable	Ø4mm, 18/2 AWG, Plenum (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

Ø 3.3mm

Cord Length
48" (1219mm)
96" (2438mm)

1.14"
(29mm)

2.12"
(54mm)

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

0.79"
(20mm)

1.14"
(29mm)

1.38"
(35mm)

2.72"
(69mm)

Mounting Options

Small Round
Canopy
Ø2.5" (51mm)

Large Round
Canopy
Ø4.5" (114mm)

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

Integral Power (joint)

Layout

LED Driver

Center to Center
24" (610 mm)
36" (914 mm)
48" (1219 mm)
60" (1524 mm)
72" (1829 mm)

LED Driver

Center to Center
24" (610 mm)
36" (914 mm)
48" (1219 mm)
60" (1524 mm)
72" (1829 mm)

LED Driver

Center to Center
24" (610 mm)
36" (914 mm)
48" (1219 mm)
60" (1524 mm)
72" (1829 mm)

0.2" (5mm)

LED Driver

Center to Center
24" (610 mm)
36" (914 mm)
48" (1219 mm)
60" (1524 mm)
72" (1829 mm)

LED Driver

Center to Center
24" (610 mm)
36" (914 mm)
48" (1219 mm)
60" (1524 mm)
72" (1829 mm)

LED Driver

Center to Center
24" (610 mm)
36" (914 mm)
48" (1219 mm)
60" (1524 mm)
72" (1829 mm)

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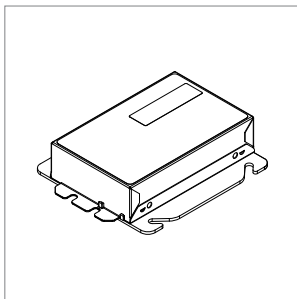
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided).
See ***Tech Sheet*** for details.

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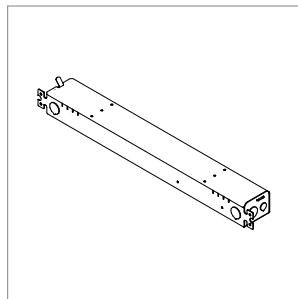
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
See ***Tech Sheet*** for details.

Integral Power
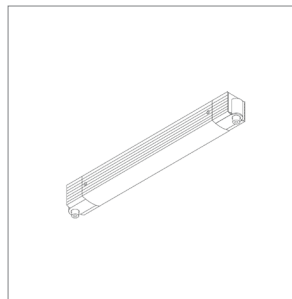
Houses integral power supply. Direct conduit feed is recommended, but integral power supply housing will mount to any standard North America 4" j-box. Mounts to most surfaces. Blocking is recommended at all arm junctions.
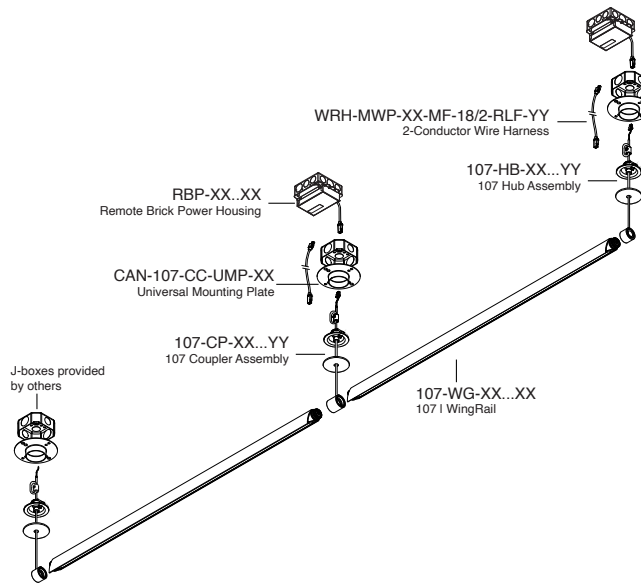See ***Tech Sheet*** for details.

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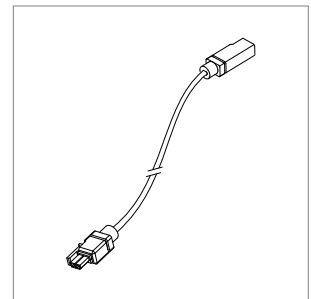
Wire harness connects driver to rail. Wire hareness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m).
See ***Tech Sheet*** for details.
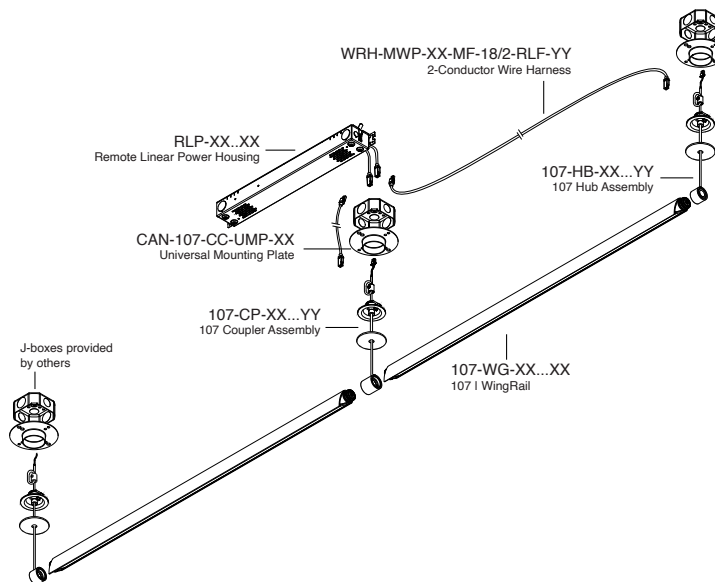
Power and Controls

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.

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

107-HB-XX...YY
107 Hub Assembly

RBP-XX..XX
Remote Brick Power Housing

CAN-107-CC-UMP-XX
Universal Mounting Plate

107-CP-XX...YY
107 Coupler Assembly

J-boxes provided
by others

107-WG-XX...XX
107 I WingRail

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

RLP-XX..XX
Remote Linear Power Housing

107-HB-XX...YY
107 Hub Assembly

CAN-107-CC-UMP-XX
Universal Mounting Plate

107-CP-XX...YY
107 Coupler Assembly

J-boxes provided
by others

107-WG-XX...XX
107 I WingRail

Note: Drawings not to scale, for reference only.

Power and Controls

Wire Harness

Low voltage wire harness connects driver to rail. Wire hareness is 25' (7.6m) 18/2 AWG stranded wire with provided micro fit molex connectors on either end for quick and easy installation. Multiple haresses 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.

1.06"
(27 mm)

1.26"
(32 mm)

0.40"
(10 mm)

0.29"
(7 mm)

25' (7620 mm)
Vode Standard Length
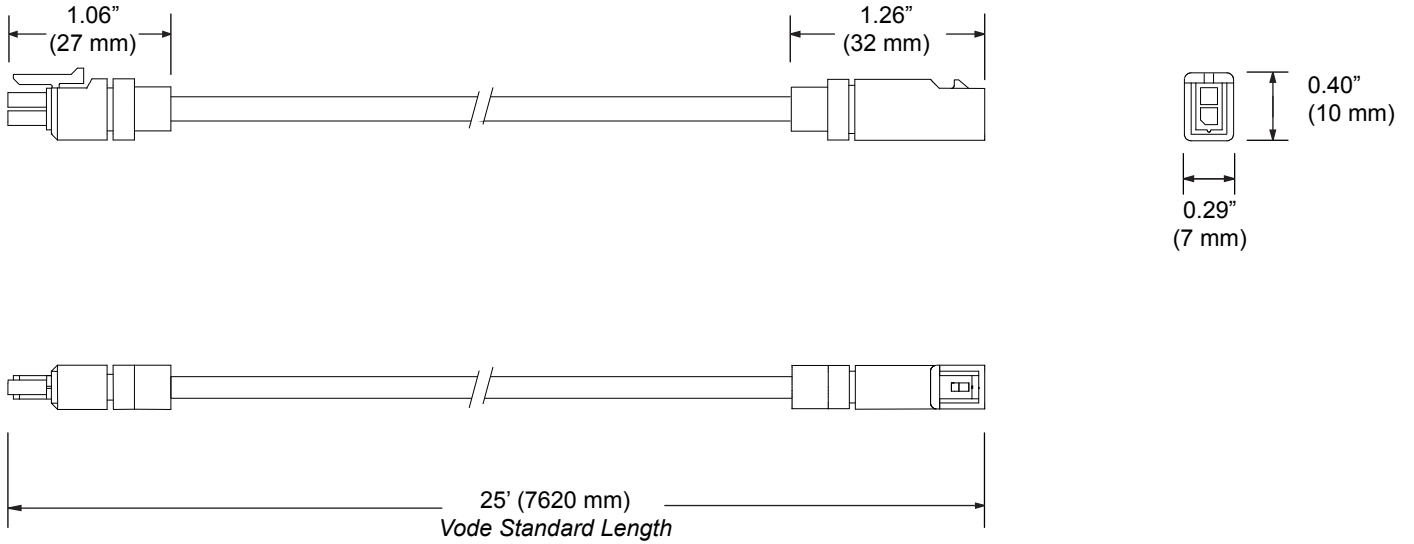
Note: Drawings not to scale, for reference only.

Finish

Clear Anodized Finish

Clear Anodized Rail, White Canopy/ Clear Anodized Integral Power, Clear Cable

White Painted Finish

White Rail, White Canopy/Integral Power, White Cable

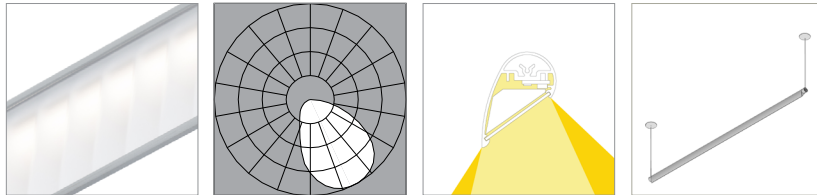### Black Anodized Finish

Black Rail, Black Canopy/Integral Power, Black Cable

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

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.

Black Baffle with EdgeSoft (BB)
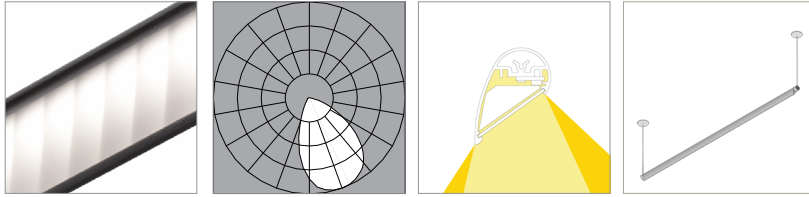
L80 >60,000 hours

	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

Clear with EdgeSoft (C1)
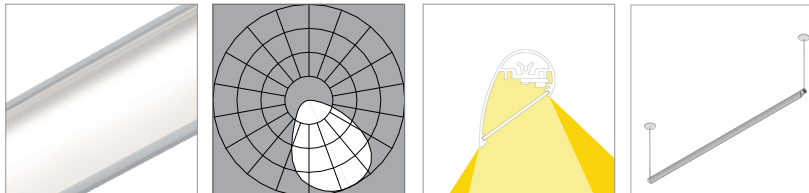
L80 >60,000 hours

	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	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

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.
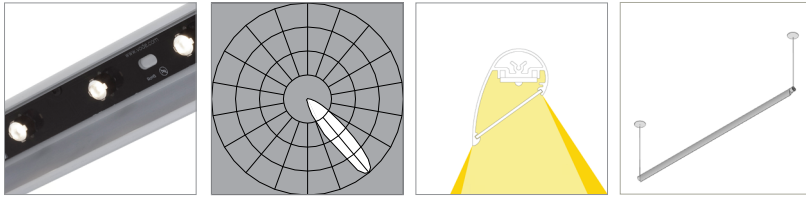
Diffuse (D1)
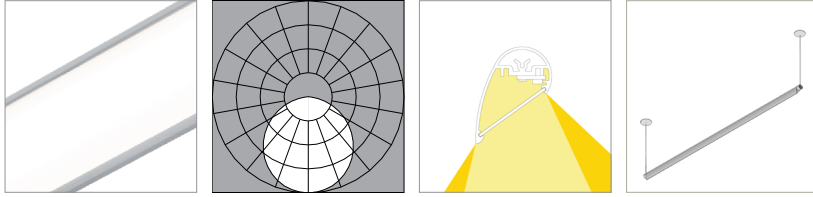
L80 is >60,000 hours

	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	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.

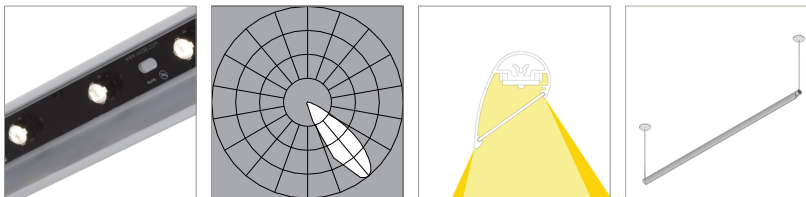## 19º x 48º Oval (19)

L80 >70,000 hours

Standard Output (SO)	80 CRI (80min., 84 avg.)			
	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

36º Medium (36)

L80 >70,000 hours

Standard Output (SO)	80 CRI (80min., 84 avg.)			
	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