vode Adaptive Architectural Lighting Systems

Spec Guide

WingRail | Ceiling Cable | 107

Red List Approved
Declare.

Direct or indirect lighting for wall wash, grazing and ceiling wash applications.
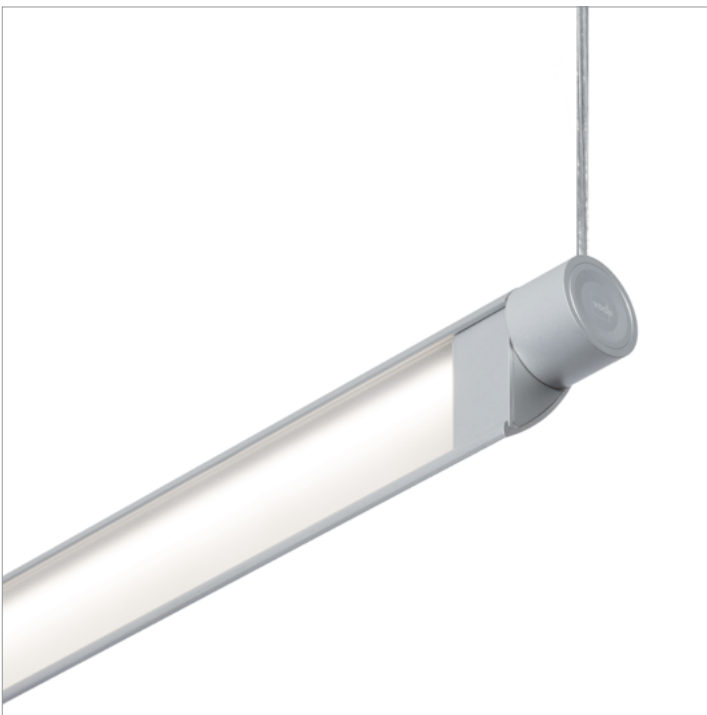
WingRail: direct or indirect, infinite rotation.

Benefits & Features

Minimal Profile, Robust Design
Asymmetric profile, 1.14 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.
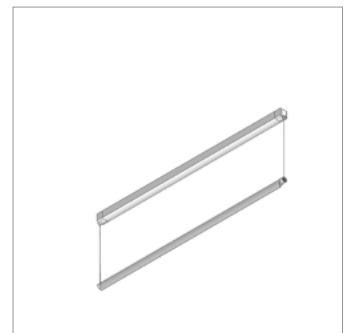
Adaptive Power
Break through Batwing lens designed for excellent fixture to fixture spacing.

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.
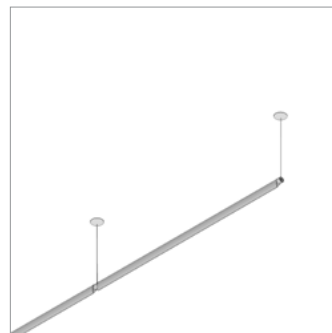
Small Round Canopy, Remote Power

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.

⚠ *Custom lengths may result in light gaps on the fixture. 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)

			▸▸

Power Location

Integral Power

IP Integral Power

Remote Power

Specify mounting and harness length code example: **2R25, 4R25**...etc.

Mounting Option

2R Small Round Canopy
4R Large Round Canopy

Wire Harness

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

Power Type

Flexible 1 to 1 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)

Optimized Power

Add 'O' to power type example: AE**O**, AT**O**...etc. [1]

VodeNODE

Add '**N**' to power type for Flexible 1 to 1 Power
Add '**ON**' to power type for Optimized Power
example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [2]

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)*

▸▸				

LED Type

Z Zipper Board
B Button Board [3]

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

90+ CRI

27 2700K
30 3000K
35 3500K
40 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 [7]

0 None
ENC Canopy with integrated Enlighted Micro Sensor [6]
WSC Canopy with integrated Legrand Wattstopper sensor [6]
LAC Canopy with integrated Lutron Athena sensor [6]
ZZ Other (please specify)

NOTES & LIMITATIONS

[1] *Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.*
[2] *VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.*
[3] *Button Board (B) is not available in 90 CRI.*
[4] *9' 18/3 Cord and Plug only available with Remote Power (RP).*
[5] *Chicago Plenum not applicable for wall arm mounting.*
[6] *Rotating fixture as an uplight will interfere with sensor operation.*
[7] *Sensors, drivers and control units that are integrated into Vode fixtures are discrete components that communicate with network lighting controls. For more information about each network lighting control system, visit the manufacturer's website for additional system information and technical data sheets.*
For general information about network lighting controls, consult the DesignLights Consortium® (DLC) ***Networked Lighting Control Qualified Product List***.

▸▸	

Finish

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

Options

0 None
9 9' 18/3 Cord and Plug
CP Chicago Plenum
LLLC Luminaire Level Lighting Controls

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, Educational and Retail

JCP Architects, Bellevue, WA

ArtCenter College of Design, Arroyo Parkway, Pasadena, CA

Declare Label

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.
See **International Living Future Institute** 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

[1]LBC Temp Exception RL-002 - Small Electrical Components
[2]LBC 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

Red List Approved
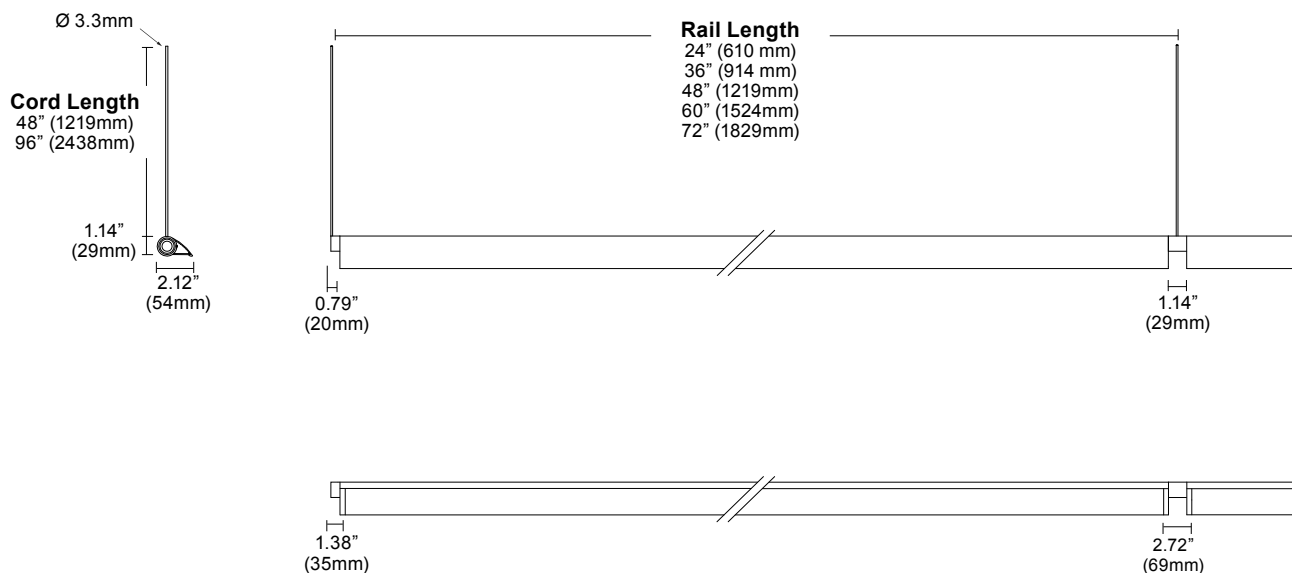Declare.

Structure

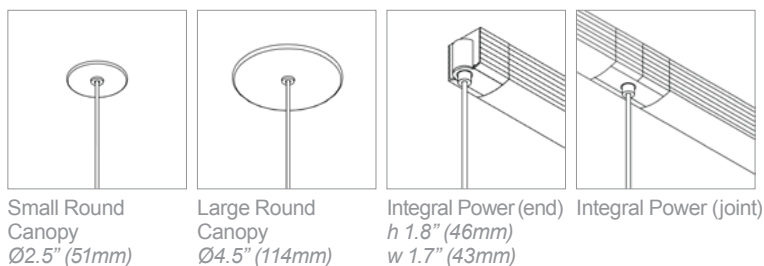|	
Rail Lengths	24" (610mm) - 72" (1829mm). Modified lengths available. *See **Rail Length Chart** or more details.*
Rail Dimensions	1.14" (29mm) x 2.12" (54mm) x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Ceiling mount to jbox or integral power driver housing.
Cable Length	48" (1219mm) and 96" (2438mm) available. Field adjustable. Non-standard cable lengths available.
System Run Length	24" (610mm) minimum. Unlimited maximum.
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

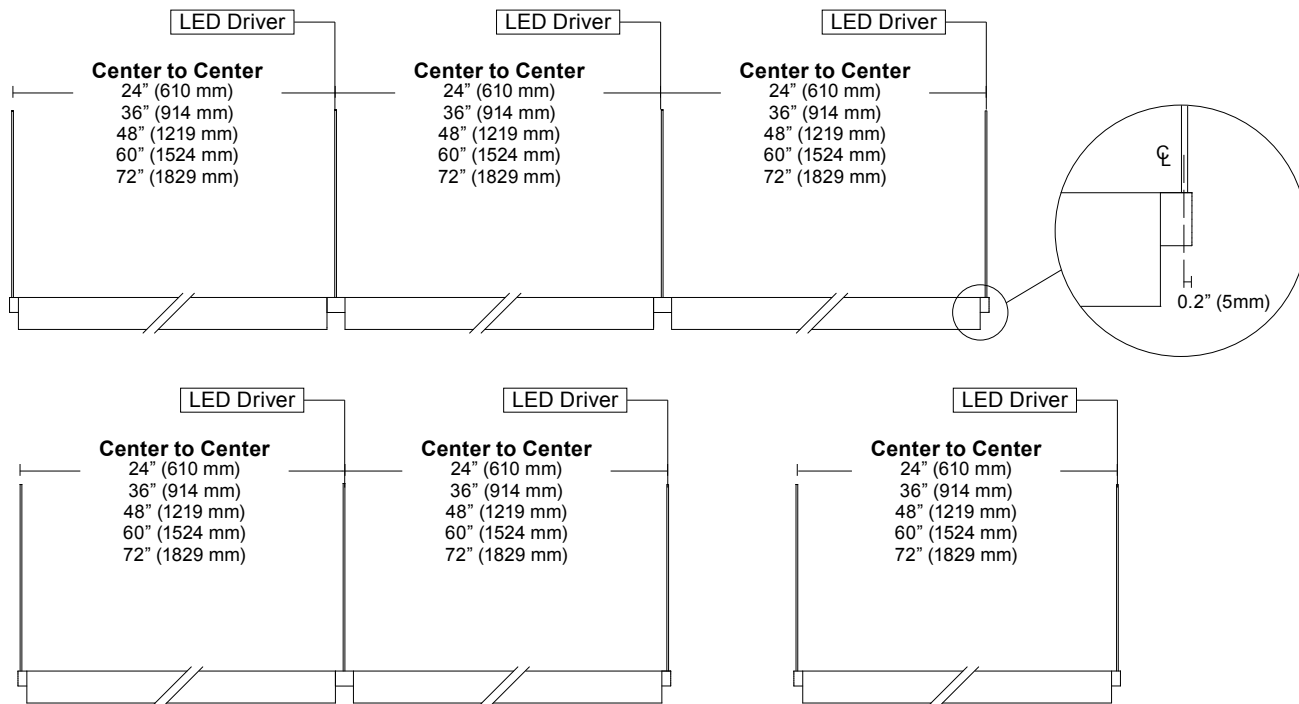|	
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Baffle	6063 aluminum, RoHS compliant painted finish.
Suspension Cable	Ø3.3mm, 22/2 AWG, PVC or TPE and RoHS compliant *(PVC free in 2020)*.
Power Cable	Ø4mm, 18/2 AWG, Plenum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

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
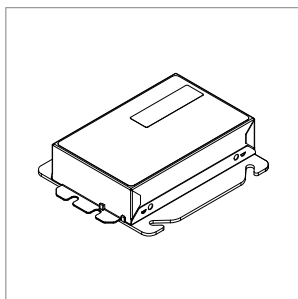
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in^3 (J-Box not provided).
See **Tech Sheet** for details.

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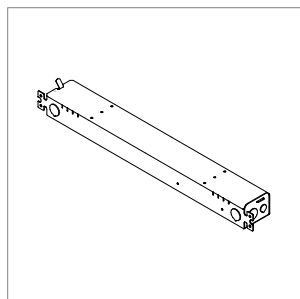
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
See **Tech Sheet** for details.

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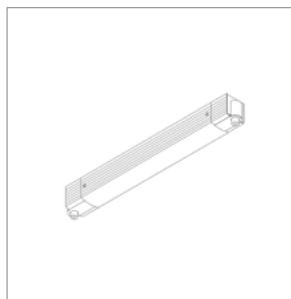
Houses integral power supply. Direct conduit feed is recommended, but integral power supply housing will mount to any standard North America 4" j-box. Mounts to most surfaces. Blocking is recommended at all arm junctions.
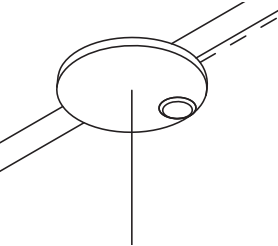See **Tech Sheet** for details.

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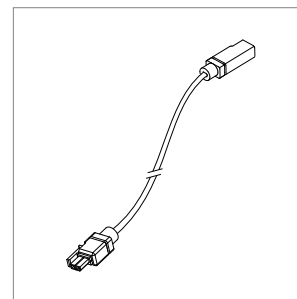
Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See **Tech Sheet** for details.

vodeCONNECT Sensors

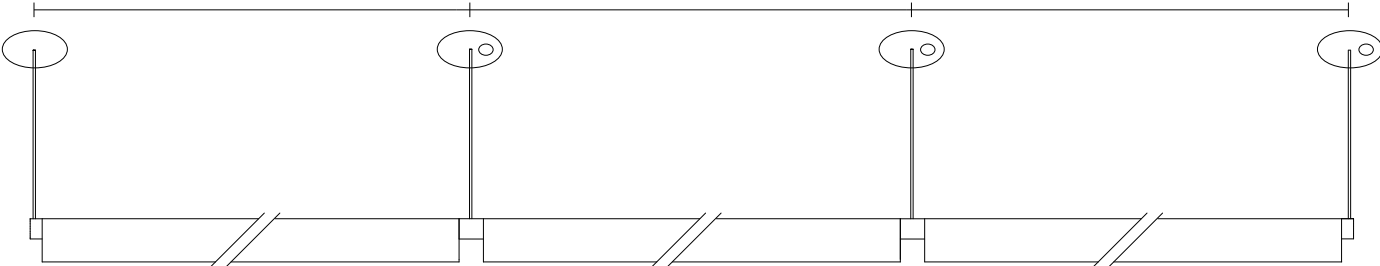## Canopy with integrated sensor

Sensor partners

Integrated canopy sensor layout [1]

*1 sensor per fixture. See **vodeCONNECT brochure** for more details.*
NOTES: 1. Available with Large Round Canopy only.

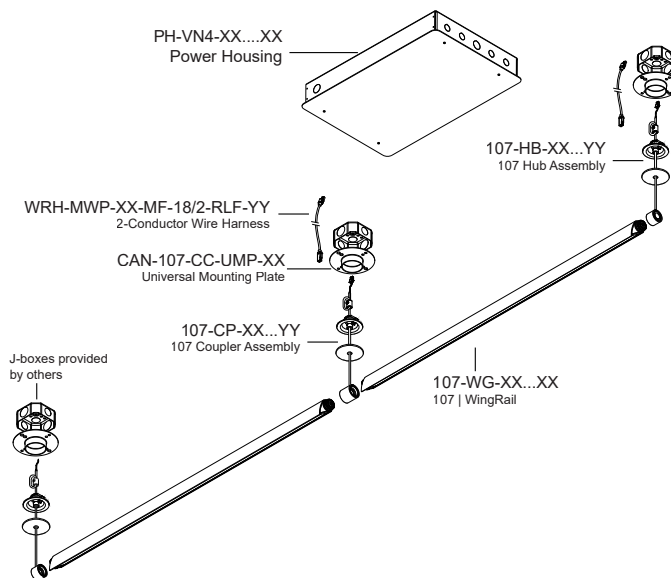## Compatible sensors

Lutron Athena

Legrand Wattstopper

Enlighted Micro Sensor
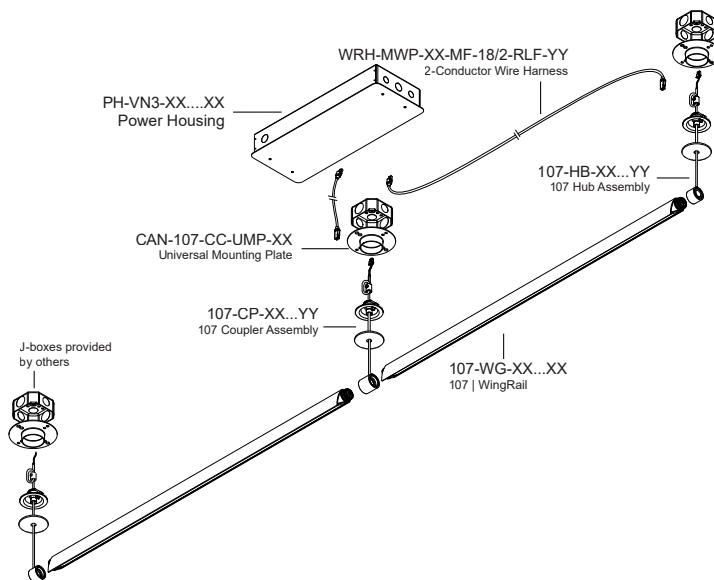
Power and Controls

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.

PH-VN4-XX....XX
Power Housing

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

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

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 | 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

PH-VN3-XX....XX
Power Housing

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

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

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

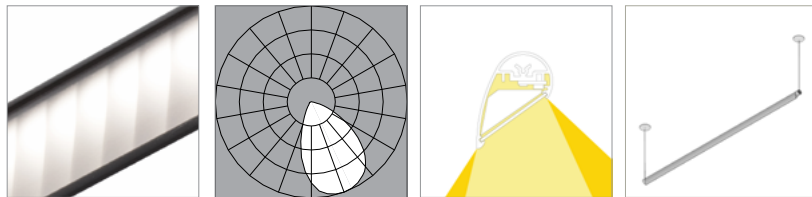J-boxes provided
by others

107-WG-XX...XX
107 | WingRail

Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

Button Board Optics design has 72 diodes per foot (305mm).
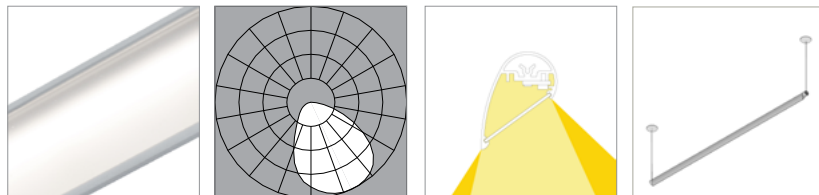
Black Baffle with EdgeSoft (BB)

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

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

Performance | Zipper Board Optics

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

Diffuse (D1)
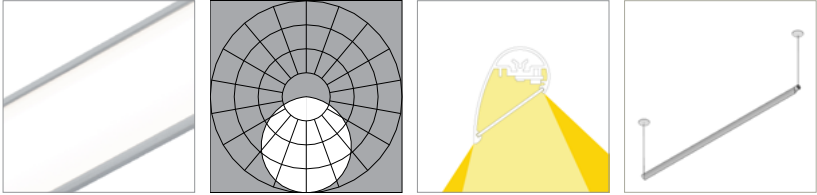
L80 is >60,000 hours

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

Performance | Button Board Optics

Button Board Optics design has 72 diodes per foot (305mm).
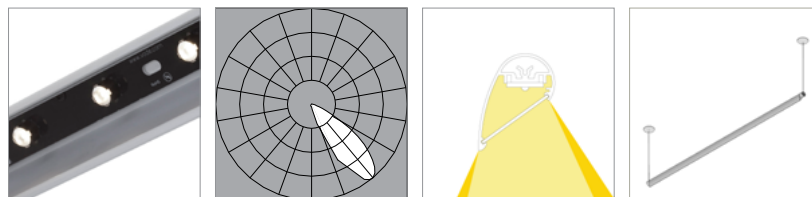
19º x 48º Oval (19)
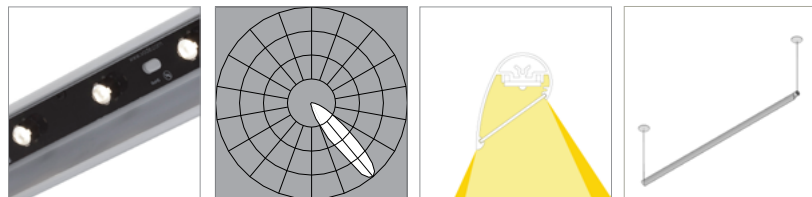
L80 >70,000 hours

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