vode Adaptive Architectural Lighting Systems

Spec Guide

ZipTwo | Square 3535/30 | Ceiling Cable | 707

Red List Approved
Declare.

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

Square 3535/30, Soft Wash, white

Benefits & Features

Minimal Profile, Robust Design
Asymetric profile. 1.38" (35mm) x 1.42" (36mm) / 30º.

Superior Light Quality & Performance
Output up to 1068 lm/ft (3503 lm/m) (HO), 109 lm/W HO. 80 or 90 CRI & tunable white (2200K-5000K) available.

Adaptive Power Body
Full range dimming power for all protocols. Integral or remote power available. Remote power available up to 100' (30.5m) away.

Discrete Wall Washer
Asymmetric lens with Soft Wash minimizes glare while subtly casting light on a surface.
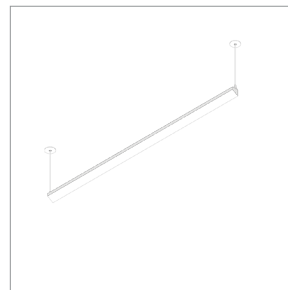
Small Round Canopy

Integral Power

Build Your Specification

707-Z2	S				CC	▸▸
System & Rail Type	**System Type**	**System Length**	**Rail Length**		**Mounting**	**Arm/Cord Length**
707-Z2 ZipTwo	**S** Suspended	Specify overall system length in ft/in or M/mm.	**24** 24" (610mm)		**CC** Ceiling Cable	**48** 48" cord (1219mm)
			36 36" (914mm)			**96** 96" cord (2438mm)
			48 48" (1219mm)			**ZZ** Other (please specify)
		Corner and Shapes Available See Guide for details.	**60** 60" (1524mm)			
			72 72" (1829mm)			
			96 96" (2438mm)			
			108 108" (2743 mm)			
			120 120" (3048 mm)			
			132 132" (3352 mm)			
			144 144" (3658 mm)			
			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.**

▸▸			▸▸
Power Location	**Power Type**	**Voltage**	**Emergency Power**
Integral Power	**Flexible 1 to 1 Power**	**1** 120V	**0** No Emergency Power
IP Integral Power	**AE** 0-10v, 1.0% Dimming	**2** 120V - 277V	**ZZ** Emergency Power *(specify requirements)*
Remote Power	**AT** 0-10v, 0.1% Dimming	**X** Not Yet Specified	
Specify mounting and harness length code example: **2R25, 2R50**...etc.	**AD** DALI, 0.1% Dimming		
	AX DMX, 100-0% Dimming		
Mounting Option	**AH** Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE1		
2R Small Round Canopy	**AH2** ELV 1% 2-wire (Forward and Reverse Phase)		
4R Large Round Canopy			
	Optimized Power		
Wire Harness	Add 'O' to power type example: AE**O**, AT**O**...etc. [1]		
10 10' (3.048m) Wire Harness	**VodeNODE**		
25 25' (7.62m) Wire Harness	Add 'N' to power type for Flexible 1 to 1 Power		
50 50' (15.24m) Wire Harness	Add 'ON' to power type for Optimized Power example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [2]		
75 75' (22.86m) Wire Harness			
100 100' (30.48m) Wire Harness	**ZZ** Other (please specify)		
	See Power Guide for driver features & limitations.		

▸▸	Z		A3	
	LED Type	**Lumen Output**	**Color Temperature**	**Optics**	**Sensors** [3]

	LED Type	**Lumen Output**	**Color Temperature**	**Optics**	**Sensors** [3]
	Z Zipper Board	**LO** Low Output	**80+ CRI**	**A3** Square 3535/30, Soft Wash	**0** None
		SO Standard Output	**27** 2700K		**ENC** Canopy with integrated Enlighted Micro Sensor
		HO High Output	**30** 3000K		**WSC** Canopy with integrated Legrand Wattstopper sensor
		ZZ Other (please specify)	**35** 3500K		**LAC** Canopy with integrated Lutron Athena sensor
			40 4000K		**ZZ** Other (please specify)
		See IES Files page for details.	**90+ CRI**		
		See Power Guide for driver features & limitations.	**279** 2700K		
			309 3000K		
			359 3500K		
			409 4000K		
			ZZ Tunable White Available *See Guide for details.*		

▸▸		
Finish	**Options**	
WH White	**0** None	
BL Black	**9** 9' 18/3 Cord and Plug	
	CP Chicago Plenum	
	LLLC Luminaire Level Lighting Controls	

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] *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.

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

General Interior and Open Office

Square 3535/30, Soft Wash

Declare Label

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.

See **International Living Future Institute** website for details.

Declare.℠

Red List Approved
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

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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Structure

|	
Rail Lengths	24" (610mm) - 144" (3658mm). Modified lengths available. *See **Rail Length Chart** for more details.*
Rail Dimensions	1.38" (35mm) x 2.11" (54mm) / 30° x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Ceiling mount to jbox or driver housing.
Cable Length	48" (1220mm) 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	0.39 lbs per foot (0.18 kg per 305mm) Power supply and housing not included.

Materials

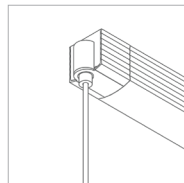|	
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Suspension Cable	Ø4mm, 22/4 AWG, TPE jacket, FEP-insulated, Red List Approved.
Power Cable	Ø3mm, 33/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910, Red List Approved.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant, Red List Approved.
Remote Linear Power Housing	20.7" x 2.375" x 2.53", 0.054" formed Galvanized Steel.
Remote Brick Power Housing	4.32" x 3.37" x .078" Galvanized Steel mounting plate.
Integral Power Housing	extruded and machined 6063 aluminum.
Center Cable Suspension	3/64" aircraft cable.

Mounting Options

Remote Power
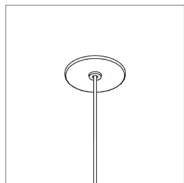
Small Round
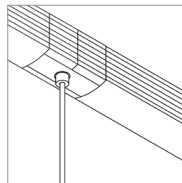Canopy
Ø2.5" (51mm)
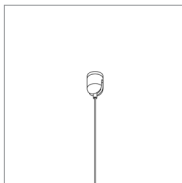
Center Support Cable
108" - 144" Rails Only

*Center Support Cable for
mounting to T-Bar tile available.*
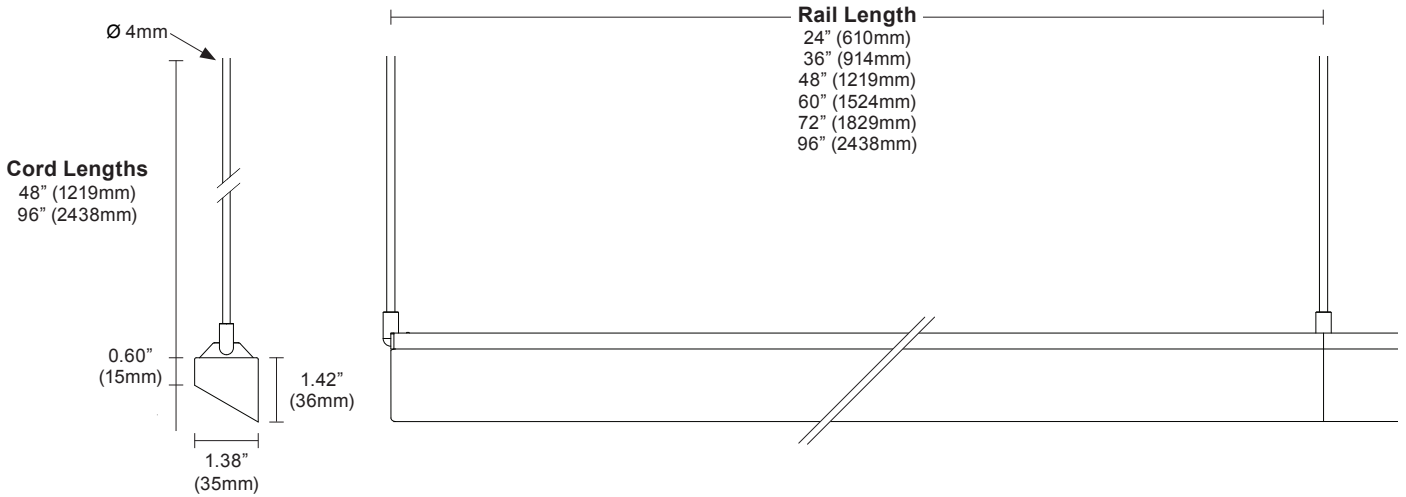
Integral Power (24"-72")

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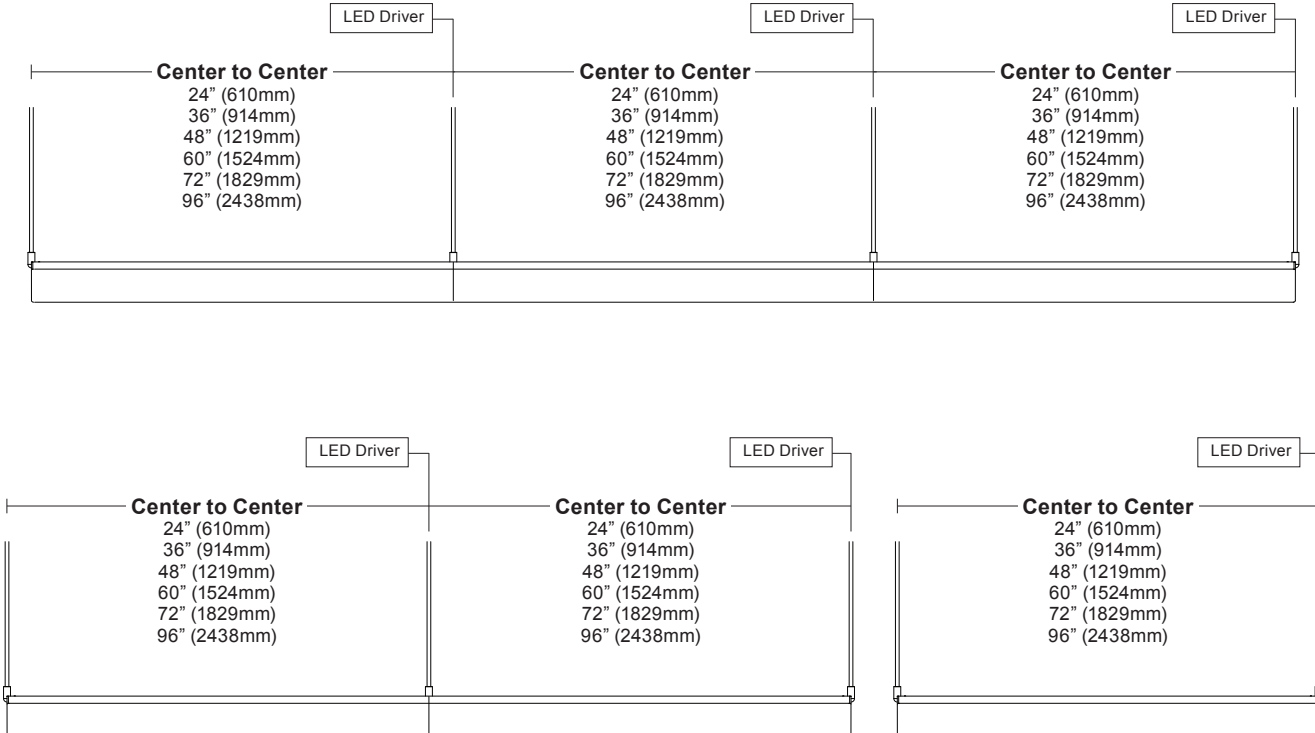(end)
*h 1.8" (46mm)
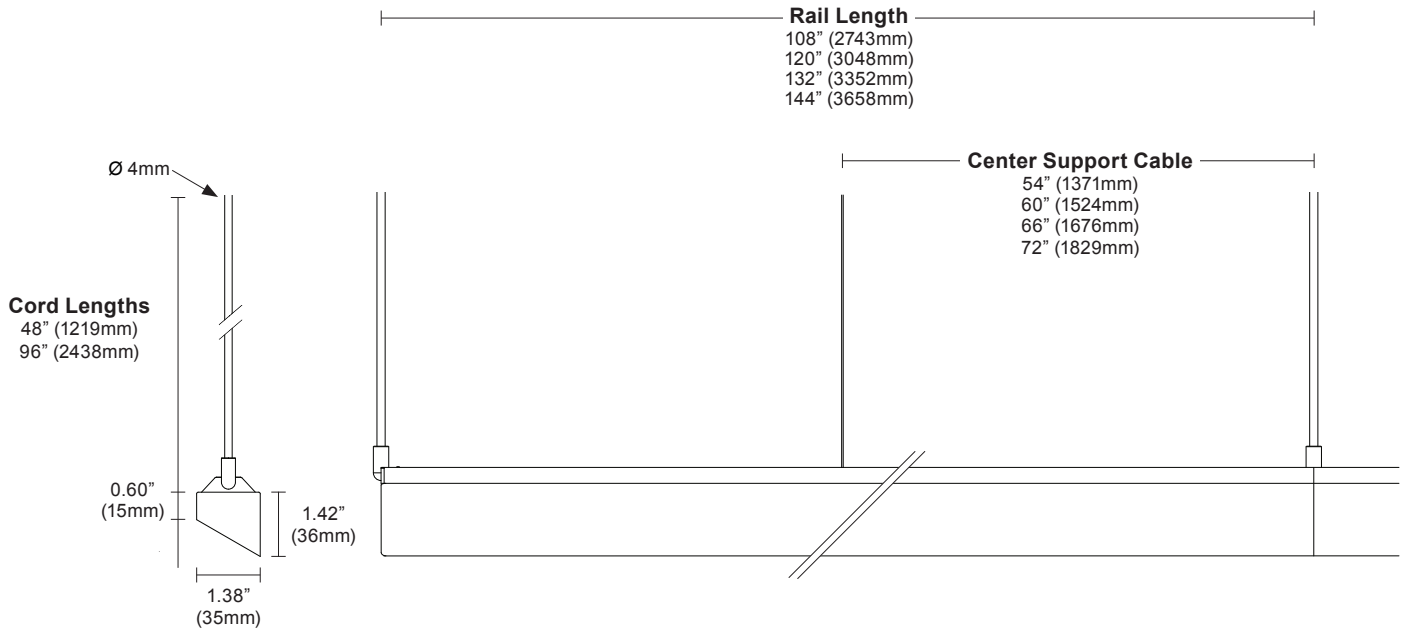w 1.7" (43mm)*

Integral Power
(joint)

Dimensions

Ø 4mm

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

0.60"
(15mm)

1.42"
(36mm)

1.38"
(35mm)

Rail Length
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)
72" (1829mm)
96" (2438mm)

Layout

LED Driver

LED Driver

LED Driver

Center to Center
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)
72" (1829mm)
96" (2438mm)

Center to Center
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)
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LED Driver

LED Driver

LED Driver

Center to Center
24" (610mm)
36" (914mm)
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Center to Center
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96" (2438mm)

Center to Center
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)
72" (1829mm)
96" (2438mm)

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

Dimensions

Rail Length
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

Center Support Cable
54" (1371mm)
60" (1524mm)
66" (1676mm)
72" (1829mm)

Ø 4mm

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

0.60"
(15mm)

1.42"
(36mm)

1.38"
(35mm)

Layout

LED Driver

Center to Center
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

LED Driver

Center to Center
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

LED Driver

Center to Center
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

Support Cable Center (typical)
54" (1371mm)
60" (1524mm)
66" (1676mm)
72" (1829mm)

LED Driver

Center to Center
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

LED Driver

Center to Center
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

LED Driver

Center to Center
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

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

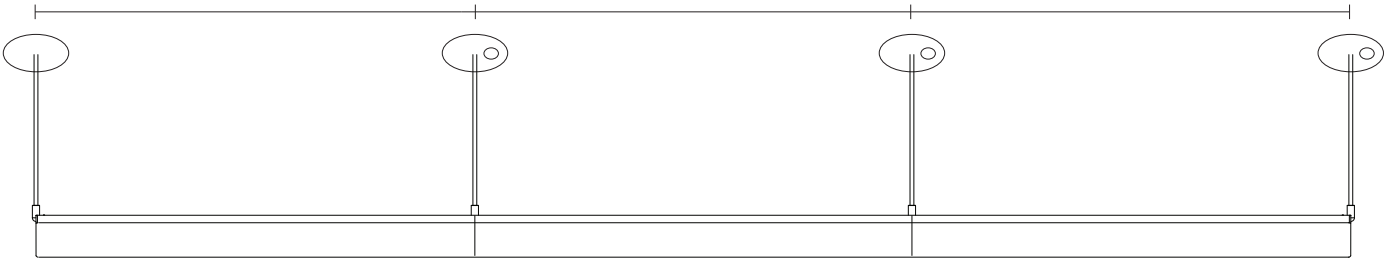## vodeCONNECT Sensors

Canopy with integrated sensor
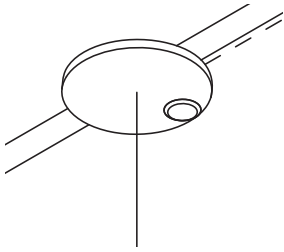
Sensor partners

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

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

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.

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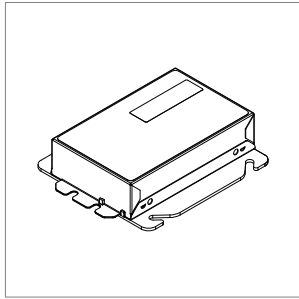
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided).
See **Tech Sheet** for details.

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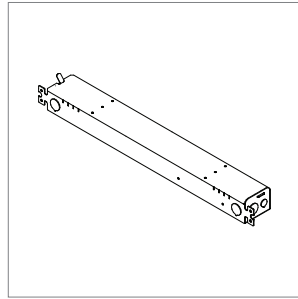
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
See **Tech Sheet** for details.

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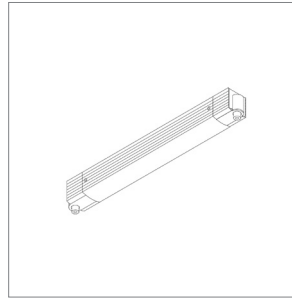
Houses integral power supply. Direct conduit feed is recommended, but integral power supply housing will mount to any standard North America 4" j-box. Mounts to most surfaces. Blocking is recommended at all arm junctions.
See **Tech Sheet** for details.

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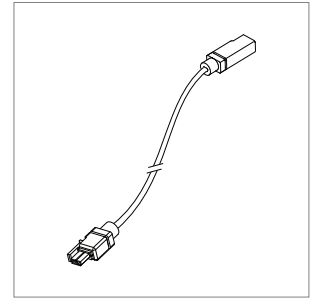
Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See **Tech Sheet** for details.

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.
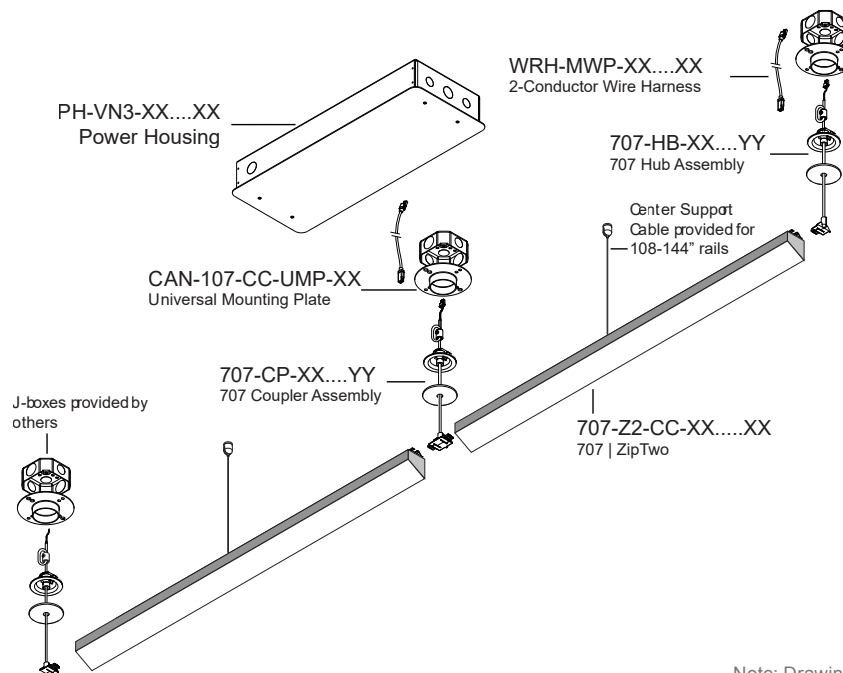
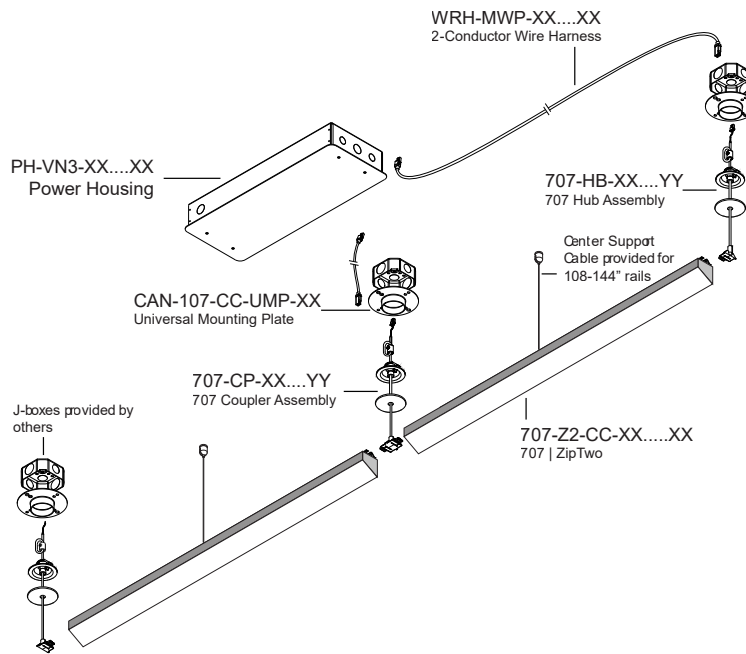

Note: Drawings not to scale, for reference only.

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....XX
2-Conductor Wire Harness

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

707-HB-XX....YY
707 Hub Assembly

Center Support
Cable provided for
108-144" rails

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

707-CP-XX....YY
707 Coupler Assembly

707-Z2-CC-XX.....XX
707 | ZipTwo

J-boxes provided by
others

Finish

White Painted Finish

White Rail, White Canopy/Integral
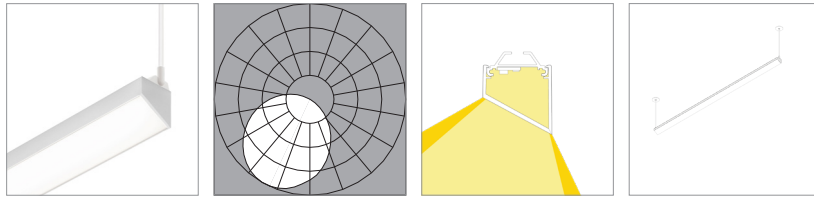Power, White Cable

Black Anodized Finish

Black Rail, Black Canopy/Integral
Power, Black Cable

Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
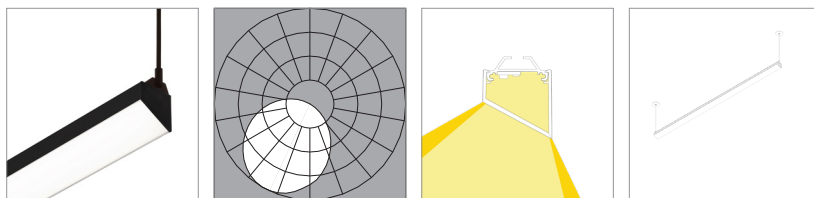
Square 3535/30, Soft Wash, white finish (A3-WH)

L90 >100,000 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	96	79	81	83	84
Lumens per foot (305mm)	338	349	356	356	292	301	307	310
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	104	107	110	110	90	93	95	96
Lumens per foot (305mm)	677	698	712	712	583	602	614	620
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
High Output (HO)								
Efficacy - Lumens per Watt	103	106	109	109	89	92	94	95
Lumens per foot (305mm)	1015	1047	1068	1068	875	903	921	930
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

Square 3535/30, Soft Wash, black finish (A3-BL)

L90 >100,000 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	69	71	72	72	59	61	63	63
Lumens per foot (305mm)	255	263	268	268	219	226	231	233
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	78	81	83	83	68	70	71	72
Lumens per foot (305mm)	509	525	536	536	439	453	462	467
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
High Output (HO)								
Efficacy - Lumens per Watt	78	80	82	82	67	69	71	71
Lumens per foot (305mm)	764	788	804	804	658	679	693	700
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9