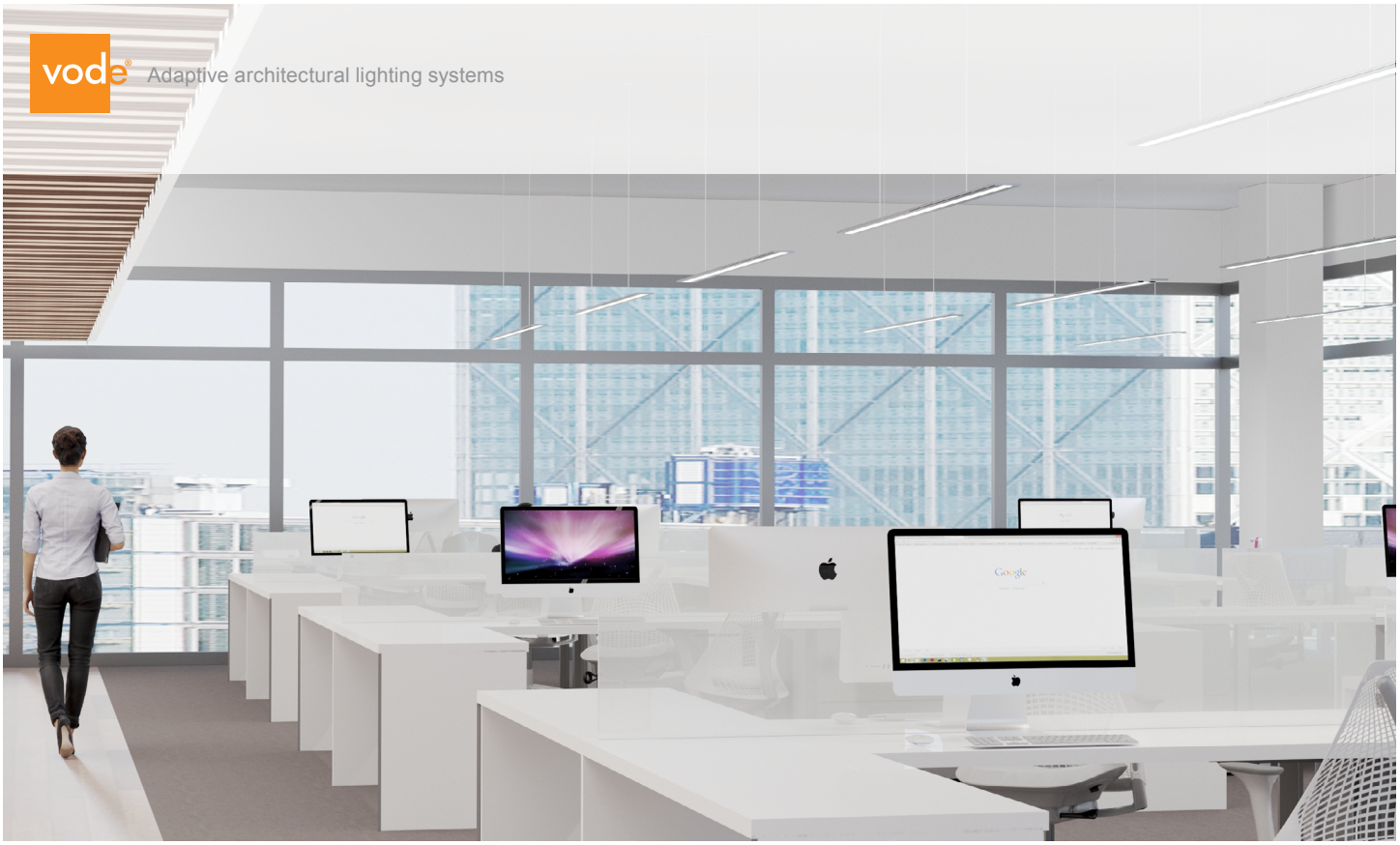


Spec Guide

ZipThree® | Ceiling Cable | 707

Direct/indirect lighting for ambient, open office and conference room applications.

ZipThree, Symmetric with EdgeGlow, Uplight

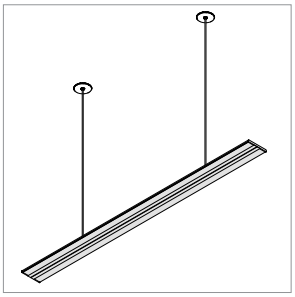
Benefits & Features

Micro Profile, Robust Design
Flat profile, 0.35" (9mm) x 3.78" (96mm)

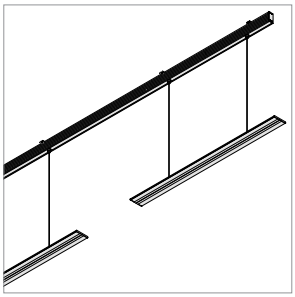
Superior Light Quality & Performance
Outputs up to: 3154 lm/ft (10,349 lm/m), 130 lm/W (SO). 80 or 90 CRI & tunable white (2200K-6500K) available.

Remote Power with Independent Channel Control
Power may be located up to 72' (22m) away. Direct/indirect circuits may be independently controlled.

A Floating Line of Light with EdgeGlow™ and Multiple Optics.
A wide variety of optics available for direct and indirect applications. Optional EdgeGlow™ for edge-lit detail.



Small Round Canopy



Multiple Fixtures with Integral Bus

Build Your Specification

707-Z3				CC

System & Rail Type
707-Z3 ZipThree

System Type
SF Single Fixture
MF Multiple Fixtures with Integral Bus

System Length
Single Fixture
2 2' (610mm)[1]
3 3' (914mm)[1]
4 4' (1219mm)
5 5' (1524mm)
6 6' (1829mm)
8 8' (2438mm)
ZZ Other rail length or layout (please specify)

Multiple Fixtures with Integral Bus
Specify overall system length in ft/in or M/mm.

Rail Length
Single Fixture
24 24" (610mm)[1]
36 36" (914mm)[1]
48 48" (1219mm)
60 60" (1524mm)
72 72" (1829mm)
96 96" (2438mm)
ZZ Other rail length or layout (please specify)

Multiple Fixtures with Integral Bus
SC SubCode (please specify below)

Specify each rail length and gap between fixtures. Standard gap lengths are in 6" increments. Non-standard gaps are available (please specify). Use a "G" prefix to specify gap.

Example: 96", G48", 96", G48", 96"

See page 7 for more details.

Mounting
CC Ceiling Cable

Cord Length
48 48" cord (1219mm)
96 96" cord (2438mm)
ZZ Other (please specify)

Power Location
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

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

0	Z			

Emergency Power
0 No Emergency
ZZ Power Emergency Power *(specify requirements)*

LED Type
Z Zipper Board™

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 Other (please specify)

Optics
U1S1 Symmetric, up | 40° Symmetric, down
U1S2 Symmetric, up | 60° Symmetric, down
U1S7 Symmetric, up | 80° Symmetric, down
U1D2 Symmetric, up | Soft Diffuse, down
U2S1 Symmetric with EdgeGlow, up | 40° Symmetric, down
U2S2 Symmetric with EdgeGlow, up | 60° Symmetric, down
U2S7 Symmetric with EdgeGlow, up | 80° Symmetric, down
U2D2 Symmetric with EdgeGlow, up | Soft Diffuse, down

0		

Sensors
0 None
ZZ Sensor *(specify requirements)*

Finish
AL Clear Anodized
WH White Painted
BL Black Anodized

Options
0 None
EF End Feed Kit[2]
9 9' 18/3 Cord and Plug[3]

NOTES & LIMITATIONS
[1] 24" & 36" fixtures available in remote power only.
[2] Provides input/output through end of integral bus. Integral Power (IP) only.
[3] 9' 18/3 Cord and Plug only available with Remote Power (RP)

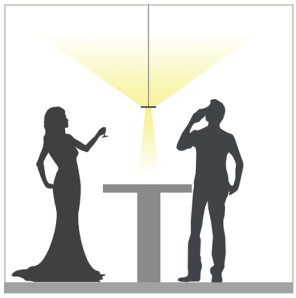
*5 Year Limited Warranty. See full Vode warranty description **here** or at vode.com.*

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

Applications

Applications

Residence,Tiburon, CA



Residence,Tiburon, CA

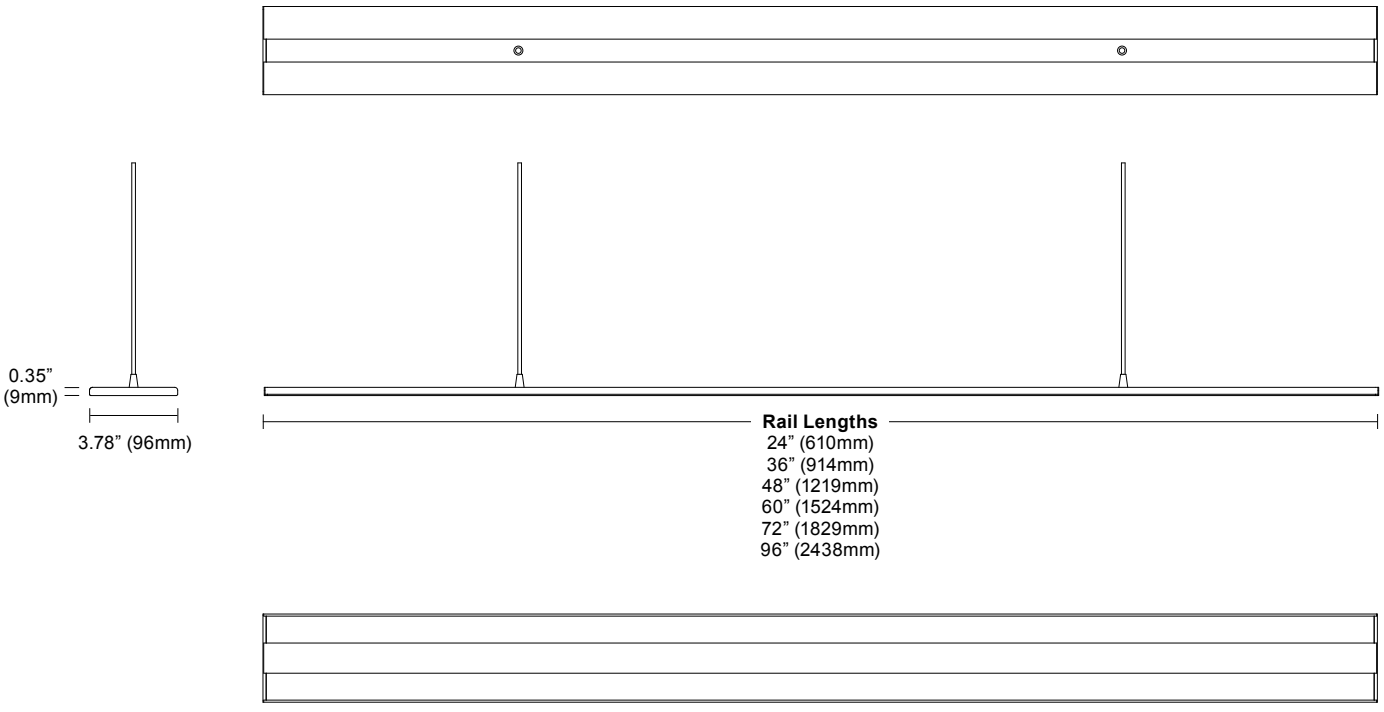
Structure

Rail Lengths	24” (610mm), 36” (914mm), 48” (1219mm), 60” (1524mm), 72” (1829mm). 96” (2438mm).
Rail Dimensions	Rectangular profile, 0.35” (9mm) x 3.78” (96mm).
Construction	Extruded and machined 6063 aluminum.
Mounting	Ceiling mount to jbox or integral bus.
Run Length	24” (610mm) minimum. Unlimited maximum length.
Operating Temperature	32°F to 95°F (0°C to 35°C).
Humidity	0-85%, non-condensing.
System Weight	0.65 lbs per ft (0.29kg per 305mm). *Power supply and housing not included.*

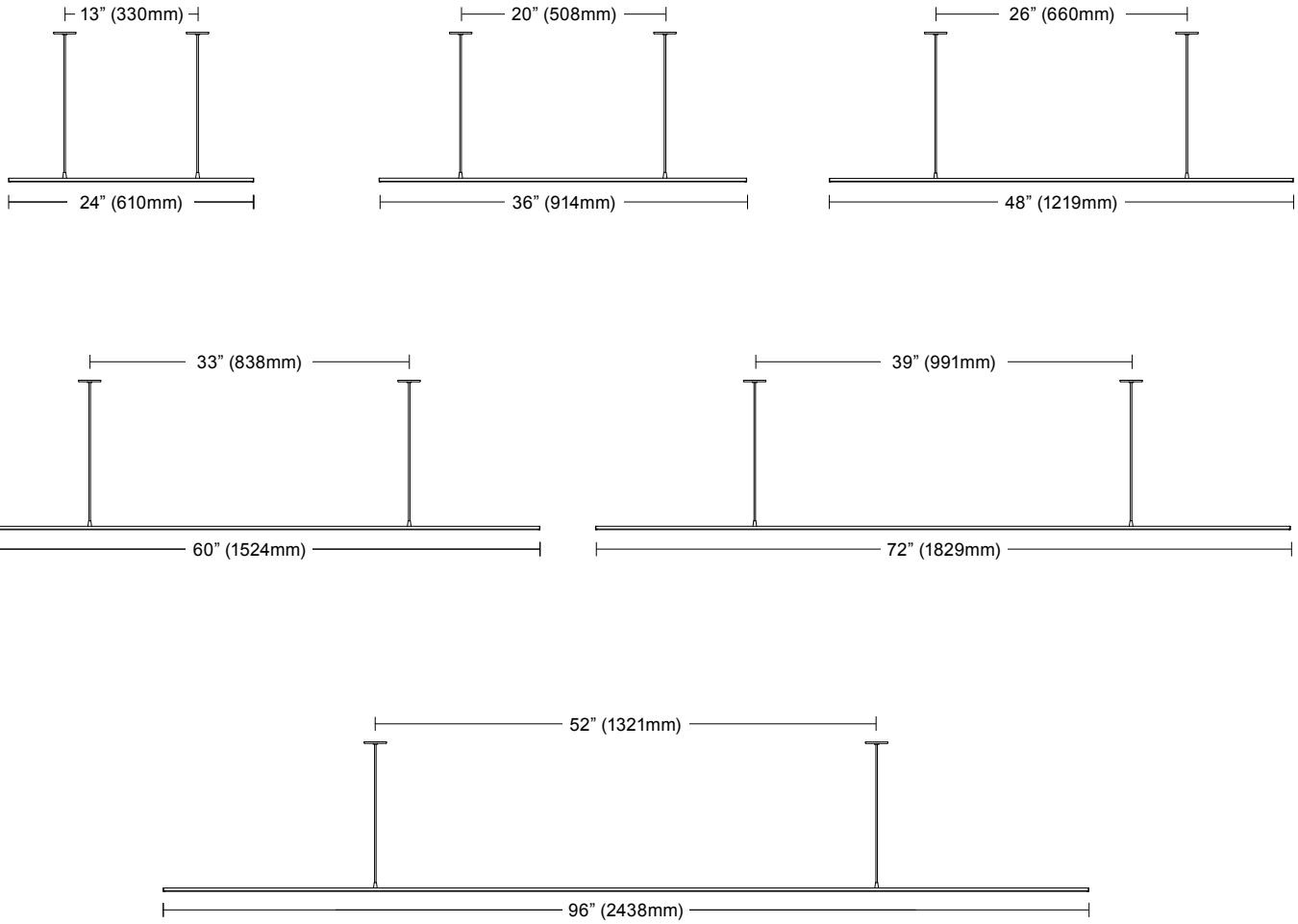
Materials

LED Board Construction	Aluminum core PCB, LCP connectors, RoHS compliant.
Lenses	High impact extruded acrylic glass (PMMA).
Suspension Cables	Ø4mm, 24/4 AWG, PVC or TPE and RoHS compliant *(PVC free in 2020)*
Power Cables	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
Integral Bus Housing	2.75”x1.4”, extruded and machined 6063 aluminum.

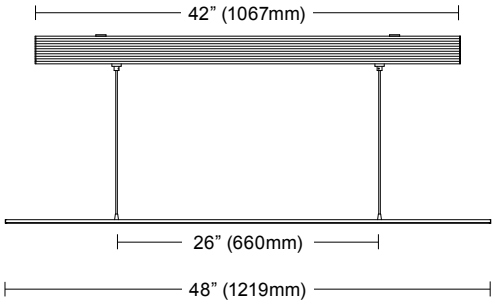
Dimensions

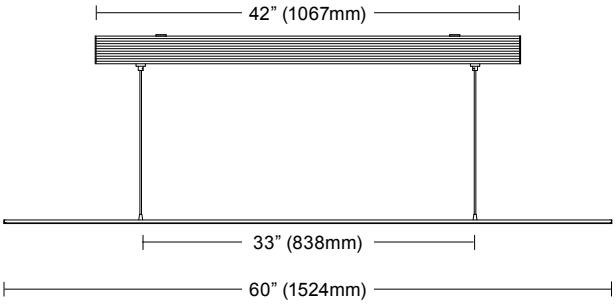


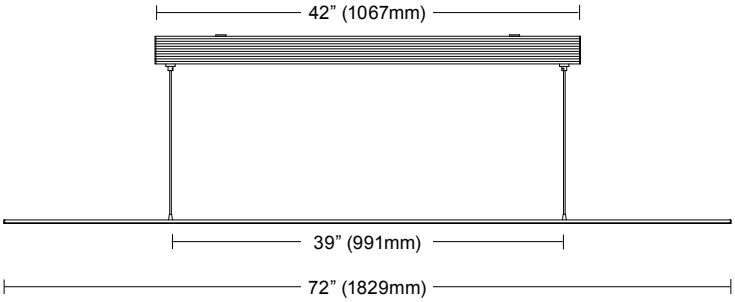
Remote Power Layout

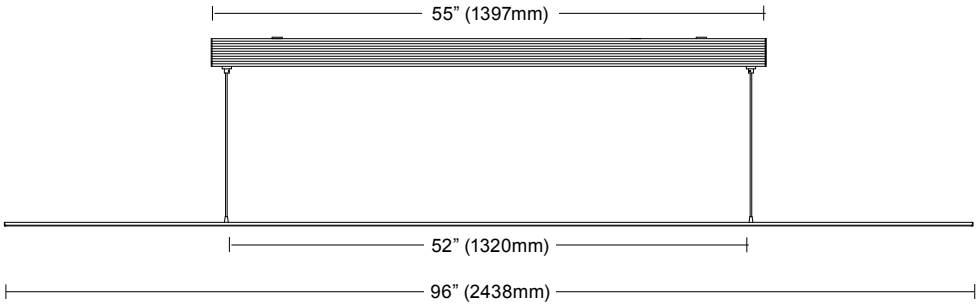


Integral Power Layout





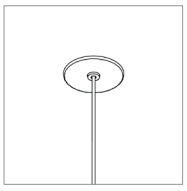




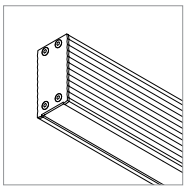
NOTES & LIMITATIONS

24” & 36” fixtures available in remote power only.

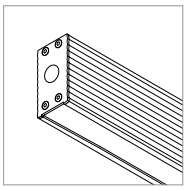
Mounting Options



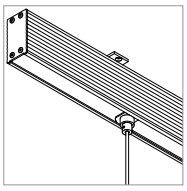
Small Round Canopy Ø2.5” (51mm)



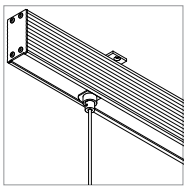
Integral Bus h 2.75” (70mm) w 1.4” (36mm)



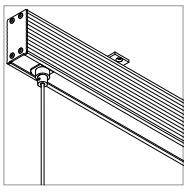
Integral Bus End Feed Kit



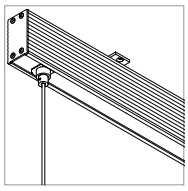
Integral Bus 48” Single Fixture



Integral Bus 60” Single Fixture



Integral Bus 72” Single Fixture



Integral Bus 96” Single Fixture

Specifying Multiple Fixtures with Integral Bus

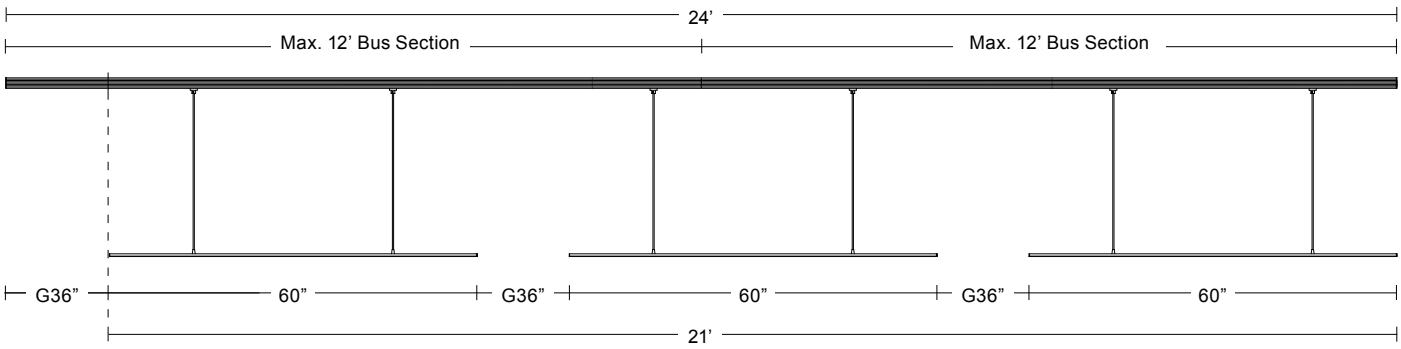
The Integral Bus system is a single, linear enclosure that houses all drivers and electrical connections for multiple suspended ZipThree fixtures. It attaches directly to a concrete, wood or drywall ceiling. Multiple fixtures can be installed quickly and precisely with a single line voltage feed through the top or end cap. The Integral Bus system typically runs the entire length of the fixtures and gaps, however a longer bus may be specified, if desired. Maximum length of individual Bus sections is 12' (3658mm). Please specify shorter lengths, if desired.

How to Specify:

1. **System Type:** select "Multiple Fixtures with Integral Bus" (MF).
2. **Overall System Length:** specify the total length of all rails and gaps. Vode recommends a minimum 6" gap between rails. Standard gap lengths are in 6" increments.
3. **Rail Length:** select "SubCode" (SC). In the SubCode field, specify the length of each rail and gap. Use the prefix "G" to specify gaps.
4. **Options:** select "End Feed Kit" (EF) for end feed installations.

Example 1:
Overall System Length: 24'
Rail Length SubCode: G36", 60", G36", 60", G36", 60"

Example 2:
Overall System Length: 21'
Rail Length SubCode: 60", G36", 60", G36", 60"
NOTE: total length of all rails and gaps must be equal to or less than "Overall System Length". Integral Bus system may start and/or end with a gap, if desired.

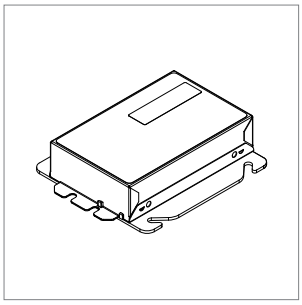


Power and Controls

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.*

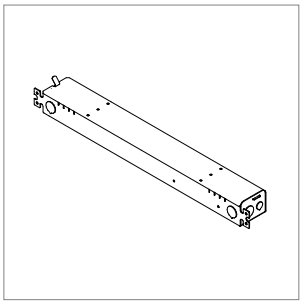
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult ***Power Guide*** to determine which type you will receive. Integral power is locating the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

Remote Brick Power Housing



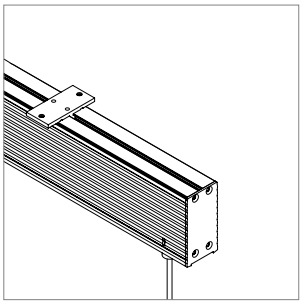
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in^3 (J-Box not provided).
See ***Tech Sheet*** for details.

Remote Linear Power Housing



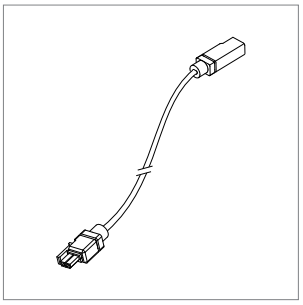
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
See ***Tech Sheet*** for details.

Integral Power



Houses integral power supply. Mounts to most surfaces. Blocking or engineered anchors required.
See ***Tech Sheet*** for details.

Wire Harness

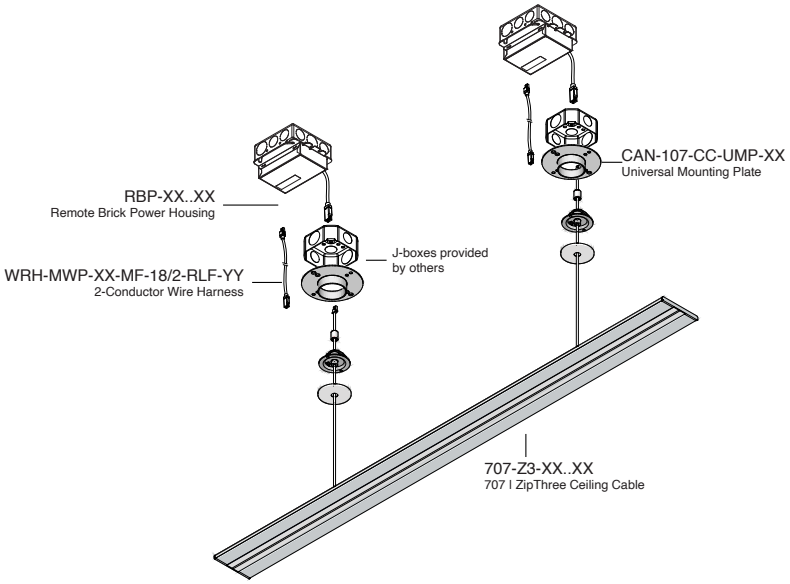


Wire harness connects driver to rail. Wire hareness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m).
See ***Tech Sheet*** for details.

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.



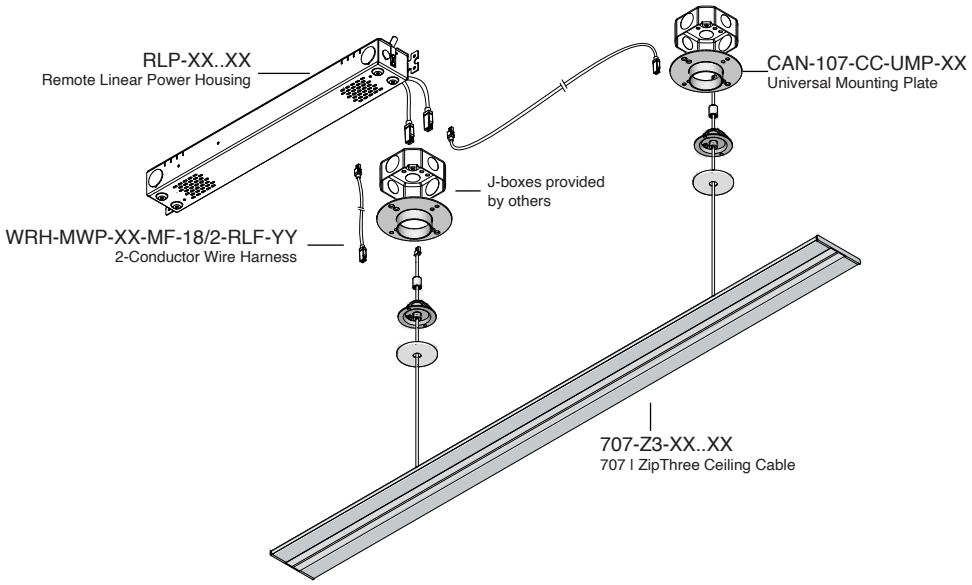
Note: Drawings not to scale, for reference only.

Power and Controls

Optimized Power

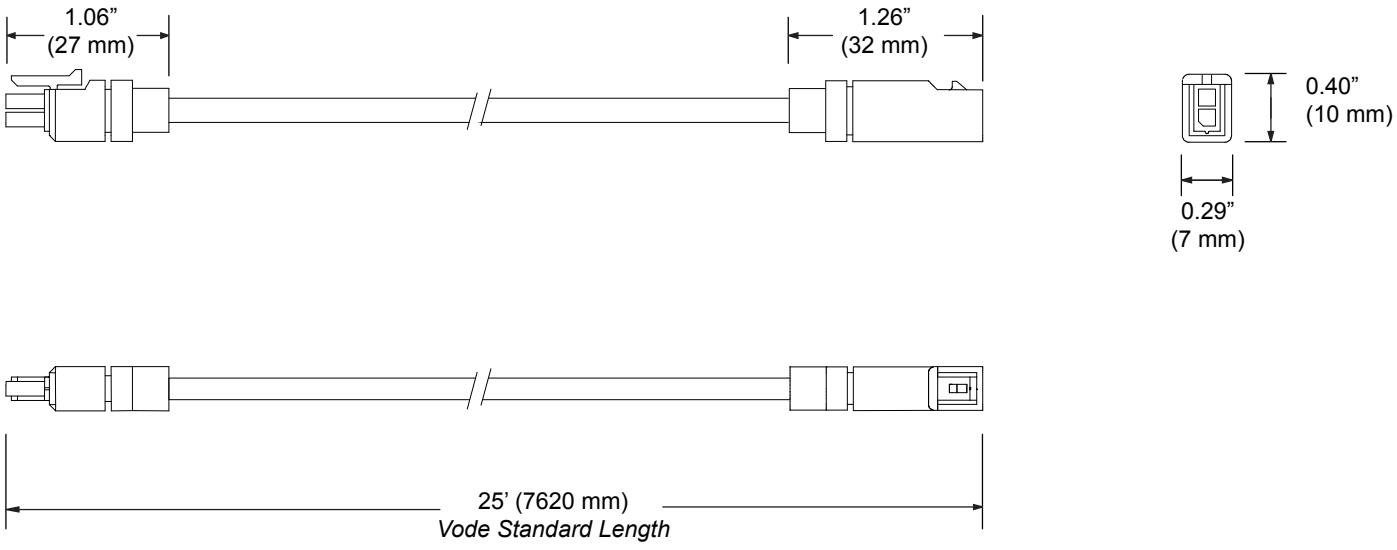
To optimize power, Vode configures specifications with drivers that have 2 or 4 outputs. Depending on system configurations and power requirements, up to 4 fixtures can be powered from a 4-output driver. Consult ***Power Guide*** to determine which type you will receive.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below.



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.



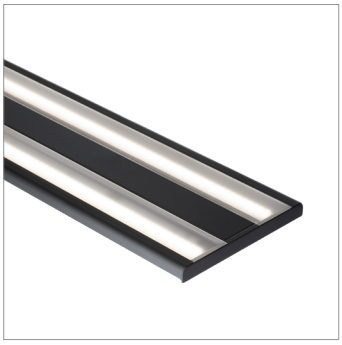
Note: Drawings not to scale, for reference only.

Finish

Clear Anodized Finish

Clear Anodized Rail, White Canopy or Clear Anodized Integral Bus, Clear Cable

Black Anodized Finish



Black Rail, Black Canopy or Integral Bus, Black Cable

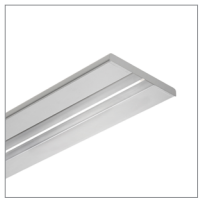
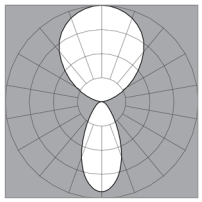
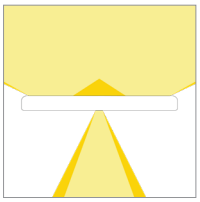
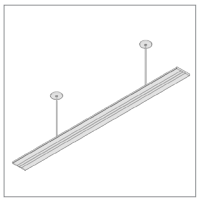
White Painted Finish

White Rail, White Canopy or Integral Bus, White Cable

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.

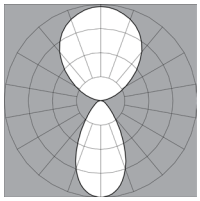
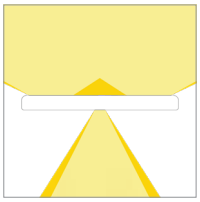
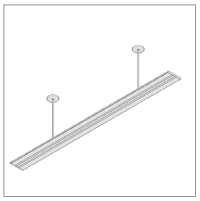
Symmetric, up | 40° Symmetric, down (U1S1)

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	96	79	81	83	84
Lumens per foot (305mm)	675	697	711	711	582	601	613	619
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	104	107	109	109	90	92	95	95
Lumens per foot (305mm)	1351	1393	1422	1442	1165	1201	1226	1238
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.0	13.1
High Output (HO)								
Efficacy - Lumens per Watt	96	99	101	101	83	85	87	88
Lumens per foot (305mm)	2567	2648	2702	2702	2213	2282	2329	2352
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric, up | 60° Symmetric, down (U1S2)

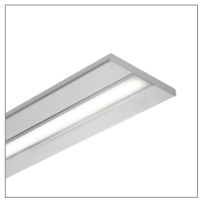
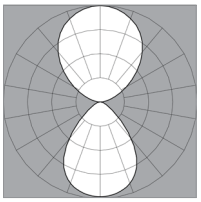
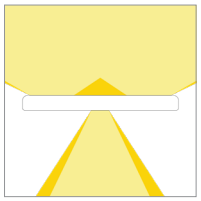
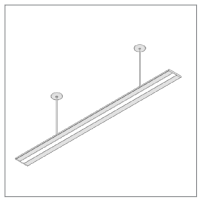
L80 >60,000 hours

	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	105	108	110	110	91	93	95	99
Lumens per foot (305mm)	777	802	818	818	670	691	705	712
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	120	123	126	126	104	107	109	113
Lumens per foot (305mm)	1555	1604	1636	1636	1340	1382	1411	1425
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	110	114	116	116	95	98	100	104
Lumens per foot (305mm)	2954	3047	3109	3109	2546	2627	2680	2707
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

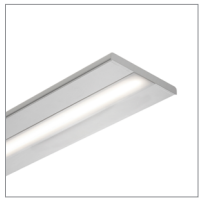
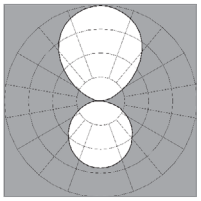
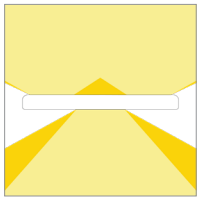
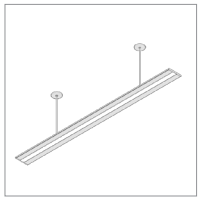
Symmetric, up | 80° Symmetric, down (U1S7)

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	110	113	116	116	95	98	100	104
Lumens per foot (305mm)	815	841	858	858	703	725	740	747
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	125	129	132	132	109	113	115	120
Lumens per foot (305mm)	1630	1682	1716	1716	1405	1450	1479	1494
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	116	119	122	122	100	103	105	109
Lumens per foot (305mm)	3097	3195	3260	3260	2670	2754	2810	2839
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric, up | Soft Diffuse, down (U1D2)

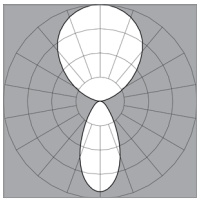
L80 >60,000 hours

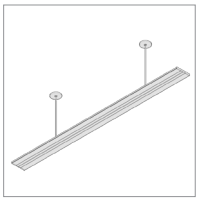
	80 CRI (80min., 84 avg.)				**90 CRI** (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	118	120	120	99	102	104	105
Lumens per foot (305mm)	847	874	892	892	730	753	769	776
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	130	134	137	137	122	116	119	119
Lumens per foot (305mm)	1694	1748	1783	1783	1461	1507	1537	1553
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.0	13.1
High Output (HO)								
Efficacy - Lumens per Watt	120	124	126	126	104	107	109	110
Lumens per foot (305mm)	3219	3321	3388	3388	2775	2863	2921	2950
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

Symmetric with EdgeGlow, up | 40° Symmetric, down (U2S1)

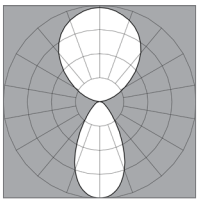
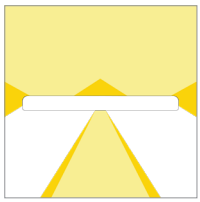
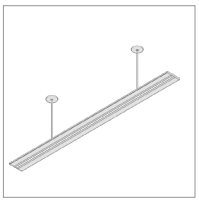





L80 >60,000 hours

	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	94	97	99	99	81	83	85	88
Lumens per foot (305mm)	693	715	730	730	598	616	629	635
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	107	110	112	112	93	96	98	102
Lumens per foot (305mm)	1386	1430	1459	1459	1195	1233	1258	1271
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	98	101	104	104	85	88	89	93
Lumens per foot (305mm)	2634	2717	2773	2733	2271	2342	2390	2414
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric with EdgeGlow, up | 60° Symmetric, down (U2S2)

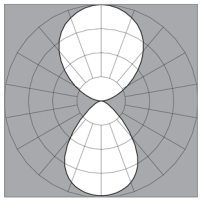
L80 >60,000 hours

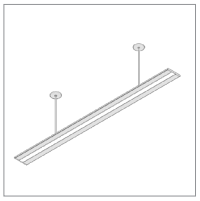
	80 CRI (80min., 84 avg.)				**90 CRI** (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	112	112	92	95	97	101
Lumens per foot (305mm)	792	817	833	833	683	704	718	726
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	122	126	128	128	106	109	111	115
Lumens per foot (305mm)	1583	1633	1667	1667	1365	1408	1437	1451
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	112	116	118	118	97	100	102	106
Lumens per foot (305mm)	3009	3104	3167	3167	2594	2675	2730	2757
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

Symmetric with EdgeGlow, up | 80° Symmetric, down (U2S7)

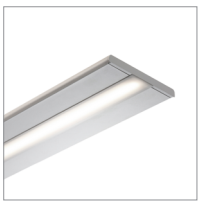
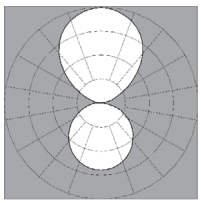



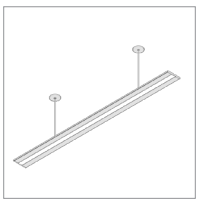


L80 >60,000 hours

	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	114	117	120	120	98	101	103	107
Lumens per foot (305mm)	844	870	888	888	727	750	766	773
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	130	134	136	136	113	116	119	124
Lumens per foot (305mm)	1687	1741	1776	1776	1455	1501	1531	1546
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	120	123	126	126	103	106	109	113
Lumens per foot (305mm)	3206	3307	3375	3375	2764	2851	2909	2938
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric with EdgeGlow, up | Soft Diffuse, down (U2D2)



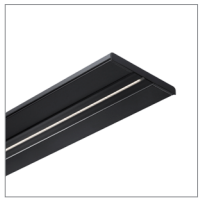
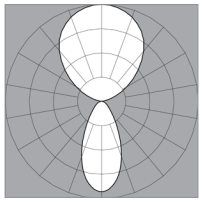
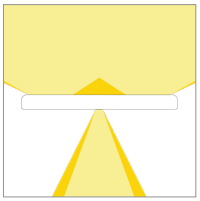
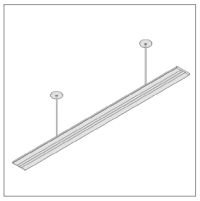
L80 >60,000 hours

	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	120	124	126	126	103	107	109	110
Lumens per foot (305mm)	888	916	935	935	766	790	806	814
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	136	141	144	144	119	123	125	126
Lumens per foot (305mm)	1776	1832	1870	1870	1531	1579	1612	1628
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	126	130	132	132	109	112	114	115
Lumens per foot (305mm)	3375	3481	3552	3552	2909	3001	3062	3093
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

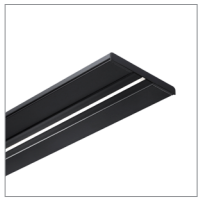
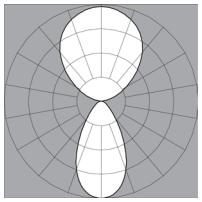
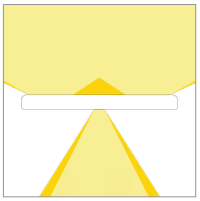
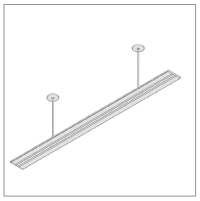
Symmetric, up | 40° Symmetric, down (U1S1-BL)

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	78	80	82	82	67	69	70	73
Lumens per foot (305mm)	574	592	604	604	495	510	521	526
Watts per foot (305mm)	30.8	30.8	30.8	30.8	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	88	91	93	93	77	79	81	84
Lumens per foot (305mm)	1148	1184	1208	1208	989	1021	1041	1052
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	82	84	86	86	70	73	74	77
Lumens per foot (305mm)	2180	2249	2295	2295	1880	1939	1979	1998
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric, up | 60° Symmetric, down (U1S2-BL)

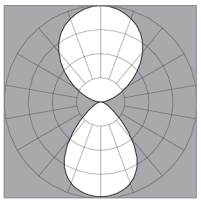
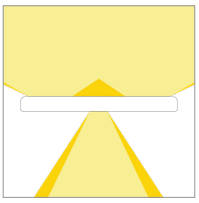
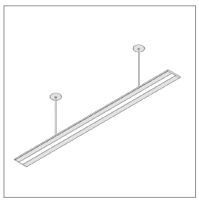
L80 >60,000 hours

	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	90	93	95	95	78	80	82	82
Lumens per foot (305mm)	665	687	701	701	574	592	604	610
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	102	106	108	108	89	92	94	95
Lumens per foot (305mm)	1331	1373	1401	1401	1147	1184	1208	1220
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	94	97	99	99	81	84	86	87
Lumens per foot (305mm)	2529	2609	2662	2662	2180	2249	2295	2318
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

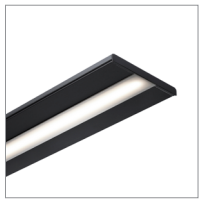
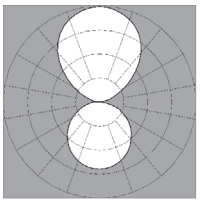
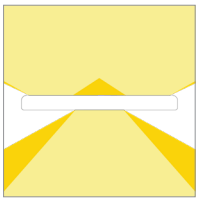
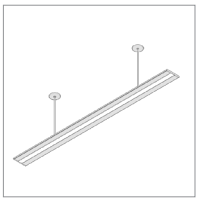
Symmetric, up | 80° Symmetric, down (U1S7-BL)

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	–	–	–	–	–	–	–	–
Lumens per foot (305mm)	–	–	–	–	–	–	–	–
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	–	–	–	–	–	–	–	–
Lumens per foot (305mm)	–	–	–	–	–	–	–	–
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
High Output (HO)								
Efficacy - Lumens per Watt	–	–	–	–	–	–	–	–
Lumens per foot (305mm)	–	–	–	–	–	–	–	–
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric, up | Soft Diffuse, down (U1D2-BL)

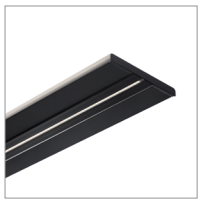
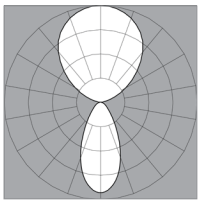
L80 >60,000 hours

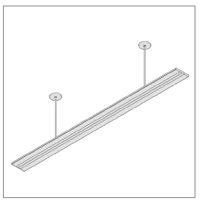
	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	–	–	–	–	–	–	–	–
Lumens per foot (305mm)	–	–	–	–	–	–	–	–
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	–	–	–	–	–	–	–	–
Lumens per foot (305mm)	–	–	–	–	–	–	–	–
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
High Output (HO)								
Efficacy - Lumens per Watt	–	–	–	–	–	–	–	–
Lumens per foot (305mm)	–	–	–	–	–	–	–	–
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

Symmetric with EdgeGlow, up | 40° Symmetric, down (U2S1-BL)

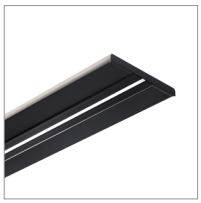
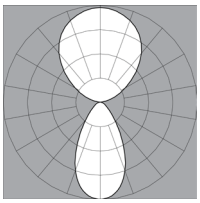
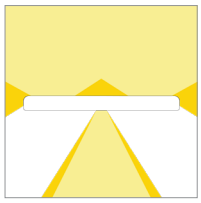
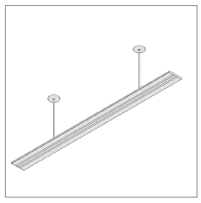





L80 >60,000 hours

	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	84	86	88	88	72	74	76	79
Lumens per foot (305mm)	618	638	651	651	533	550	561	567
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	95	98	100	100	82	85	87	90
Lumens per foot (305mm)	1237	1276	1302	1302	1066	1100	1122	1133
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.0	13.1
High Output (HO)								
Efficacy - Lumens per Watt	88	91	92	92	76	78	80	83
Lumens per foot (305mm)	2349	2424	2473	2473	2025	2089	2132	2153
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric with EdgeGlow, up | 60° Symmetric, down (U2S2-BL)

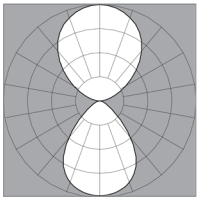
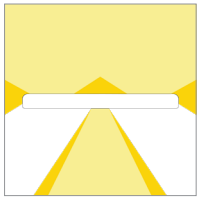
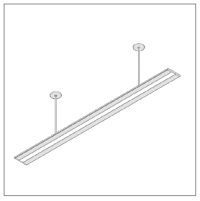
L80 >60,000 hours

	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	95	98	100	100	82	84	86	89
Lumens per foot (305mm)	702	724	739	739	605	624	637	643
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	108	111	114	114	94	97	99	103
Lumens per foot (305mm)	1403	1448	1477	1477	1210	1248	1274	1286
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0
High Output (HO)								
Efficacy - Lumens per Watt	100	103	105	105	86	89	90	94
Lumens per foot (305mm)	2667	2751	2807	2807	2299	2371	2420	2444
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

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.

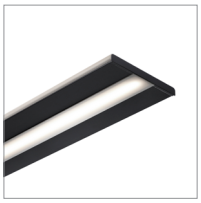
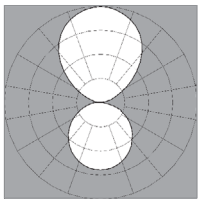
Symmetric with EdgeGlow, up | 80° Symmetric, down (U2S7-BL)

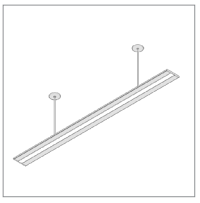





L80 >60,000 hours

	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	-	-	-	-	-	-	-	-
Lumens per foot (305mm)	-	-	-	-	-	-	-	-
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	-	-	-	-	-	-	-	-
Lumens per foot (305mm)	-	-	-	-	-	-	-	-
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
High Output (HO)								
Efficacy - Lumens per Watt	-	-	-	-	-	-	-	-
Lumens per foot (305mm)	-	-	-	-	-	-	-	-
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0

Symmetric with EdgeGlow, up | Soft Diffuse, down (U2D2-BL)



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	-	-	-	-	-	-	-	-
Lumens per foot (305mm)	-	-	-	-	-	-	-	-
Watts per foot (305mm)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Output (SO)								
Efficacy - Lumens per Watt	-	-	-	-	-	-	-	-
Lumens per foot (305mm)	-	-	-	-	-	-	-	-
Watts per foot (305mm)	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
High Output (HO)								
Efficacy - Lumens per Watt	-	-	-	-	-	-	-	-
Lumens per foot (305mm)	-	-	-	-	-	-	-	-
Watts per foot (305mm)	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0