Spec Guide

RaceRail® | Table Arm | 107

Task lighting for table, workstation, and carrel desk applications.

RaceRail: direct or indirect, 370° rotation.

Benefits & Features

Super Slim, Adaptive Design
Round profile, Ø1.12" (28mm).
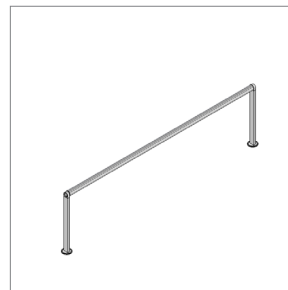
Superior Light Quality & Performance
Output up to 1507 lm/ft (4943 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.
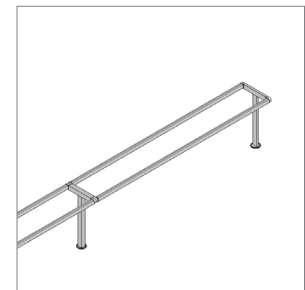
Adaptive Power
Full range dimming power for all protocols. Integral or remote power available.

Better Optics & Beam Control Options
Batwing, FlyWing, and diffuse lens available. Directional control with 370° rotation, angle gauge and lock.

Arm Anchor®

Arm Anchor, Double Rail with Tee

Build Your Specification

107-RR				TA	18 ▶▶
System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length
107-RR RaceRail	**01** Single Rail **03** Double Rail with 3" (76mm) Tee **06** Double Rail with 6" (152mm) Tee **12** Double Rail with 12" (305mm) Tee **ZZ** ZZ Other (please specify)	Specify overall system length in ft/in or M/mm. *Corner and Shapes Available* **See Guide** *for details*	**24** 24" (610mm) **36** 36" (914mm) **48** 48" (1219mm) **60** 60" (1524mm) **ZZ** Other rail length or layout (please specify) *See* **Rail Length Chart** *for more details*	**TA** Table Arm	**18** 18" arm (457mm) **ZZ** Other (please specify)[1]

▶▶			0	Z ▶▶
Power Location	Power Type*	Voltage	Emergency Power	LED Type
Remote Power **2T25** Arm Anchor 25' (7.62m) **2T50** Wire Harness 50' (15.24m) **2T75** Wire Harness 75' (22.86m) **2T100** Wire Harness 100' (30.48m) Wire Harness	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.*	**1** 120v **2** 120v-277v **X** Not Yet Specified	**0** No Emergency Power **ZZ** Emergency Power *(specify requirements)*	**Z** Zipper Board™

▶▶			0		
Lumen Output*	Color Temperature	Optics	Sensors	Finish	Options
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.*	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*	Zipper Board (Z) **2** Diffuse, round **G1** 120° Batwing **G2** 120° FlyWing	**0** None **ZZ** Sensor *(specify requirements)*	**AL** Clear Anodized **WH** White Painted **BL** Black Anodized **ZZ** Other (please specify)	**0** None **1** On/Off Switch[2] **9** 9' 18/3 Cord and Plug

NOTES & LIMITATIONS

[1]*Arm lengths >48" not recommended*
[2]*One On/Off Switch per LED Driver*

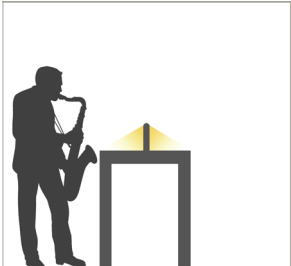*5 Year Limited Warranty. See full Vode warranty description* **here** *or at vode.com.*

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

Applications

Corporate, Educational, and Library

Arizona State University, Phoenix, AZ

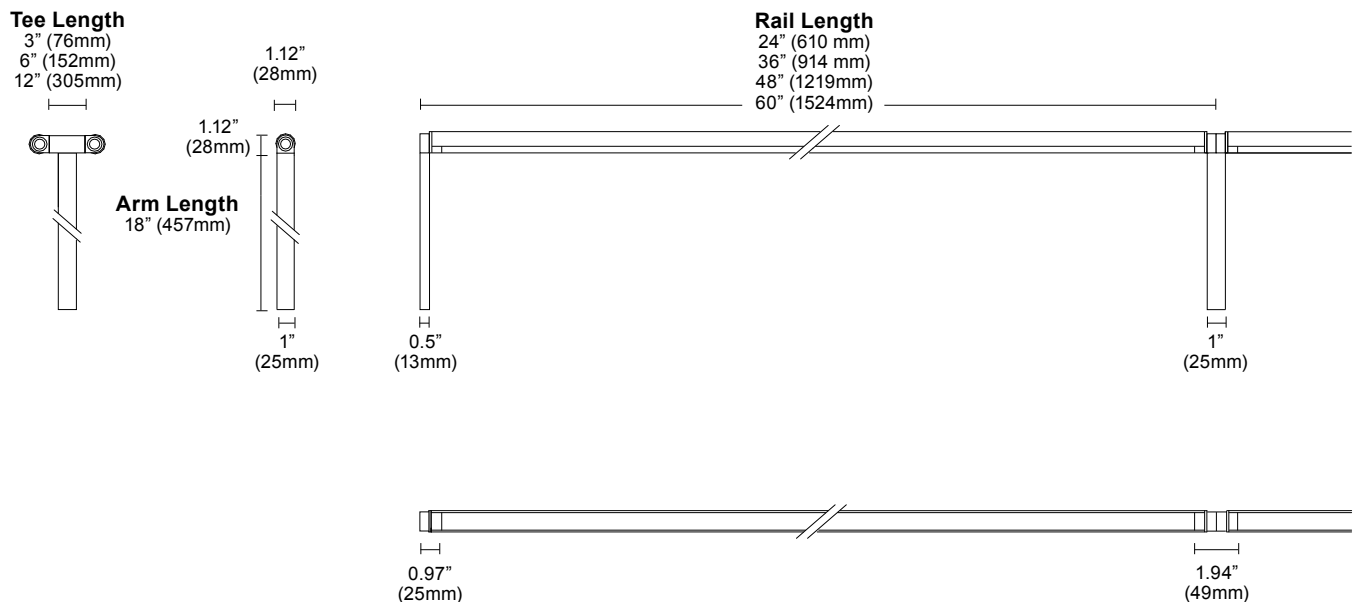Arizona State University, Phoenix, AZ

Structure

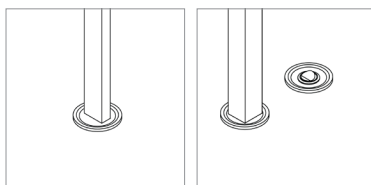|	
Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm)
Rail Dimensions	Ø1.12" (28mm).
Construction	Extruded and machined 6063 aluminum.
Mounting	Table mount to Arm Anchor®
Arm Length	18" (457mm). Non-standard arm lengths available. Arm lengths >48" (1219mm) not recommended.
System Run Length	24" (610mm) minimum. Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C)
Humidity	0-85%, non-condensing
Weight	0.88lbs per ft (0.40kg per 305 mm) *Power supply and housing not included.*

Materials

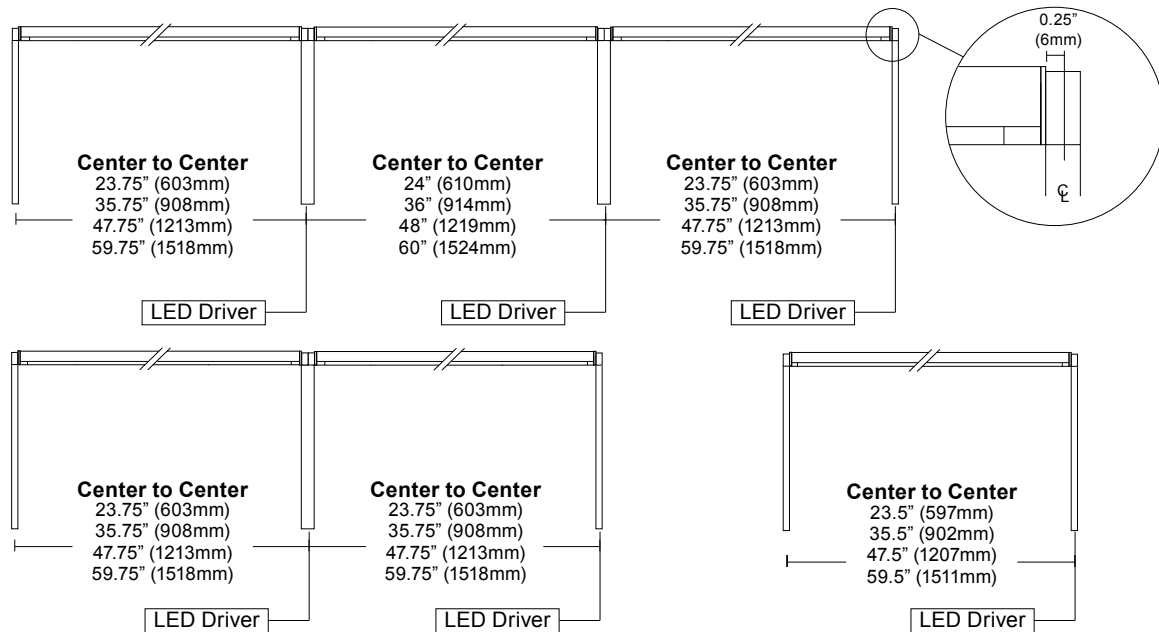|	
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant
Lens	High-impact extruded acrylic glass (PMMA)
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 *(PVC free in 2020)*
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen 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

Tee Length
3" (76mm)
6" (152mm)
12" (305mm)

1.12" (28mm)

1.12" (28mm)

Arm Length
18" (457mm)

1" (25mm)

0.5" (13mm)

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

1" (25mm)

0.97" (25mm)

1.94" (49mm)

Mounting Options

Arm Anchor
h0.1" (3mm)
Ø2" (51mm)

On Off Switch
(optional)

Layout

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

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

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

0.25"
(6mm)

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.5" (597mm)
35.5" (902mm)
47.5" (1207mm)
59.5" (1511mm)

LED Driver

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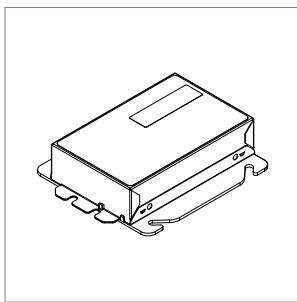
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided).
See **Tech Sheet** for details.

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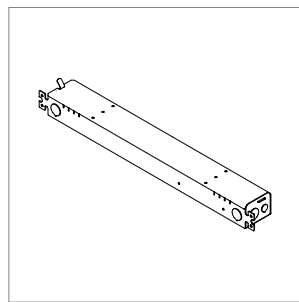
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
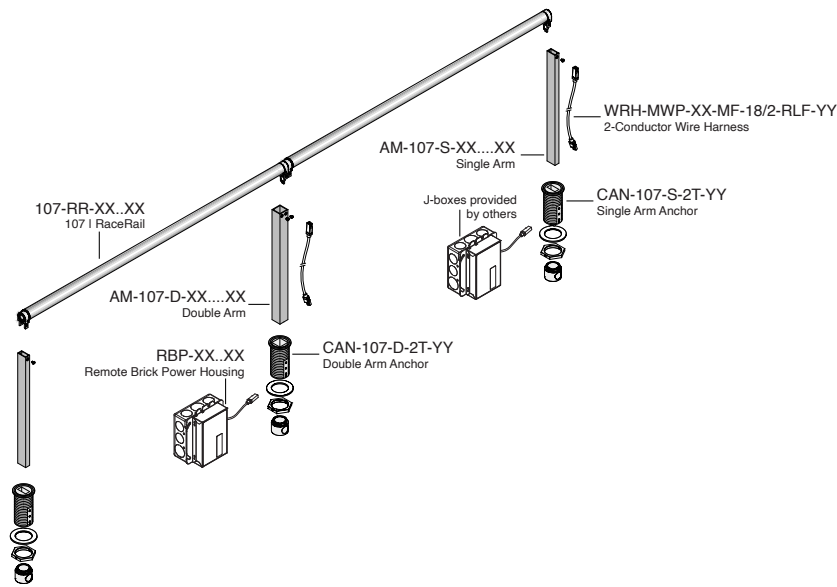See **Tech Sheet** for details.

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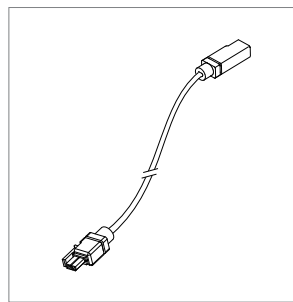
Wire harness connects driver to rail. Wire hareness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). See **Tech Sheet** for details.
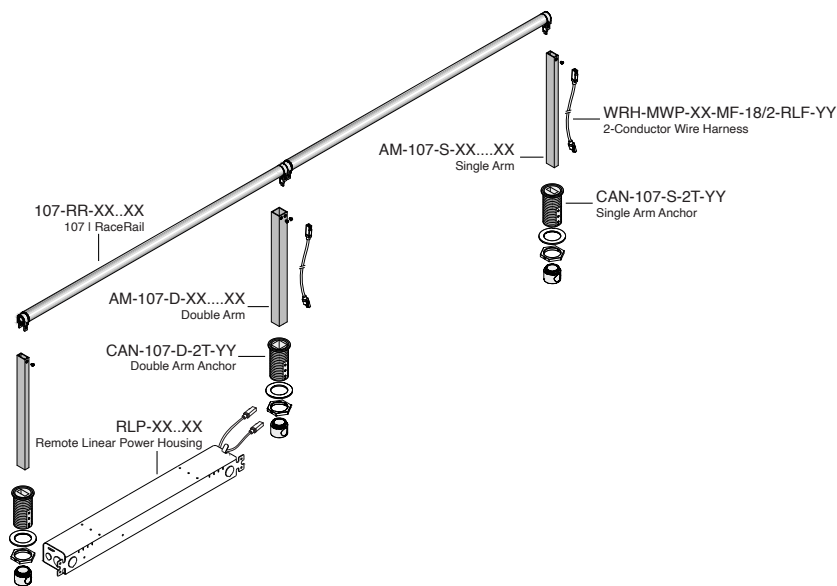
Power and Controls

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

AM-107-S-XX....XX
Single Arm

107-RR-XX..XX
107 I RaceRail

J-boxes provided
by others

CAN-107-S-2T-YY
Single Arm Anchor

AM-107-D-XX....XX
Double Arm

RBP-XX..XX
Remote Brick Power Housing

CAN-107-D-2T-YY
Double Arm Anchor

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

AM-107-S-XX....XX
Single Arm

107-RR-XX..XX
107 I RaceRail

CAN-107-S-2T-YY
Single Arm Anchor

AM-107-D-XX....XX
Double Arm

CAN-107-D-2T-YY
Double Arm Anchor

RLP-XX..XX
Remote Linear Power Housing

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"
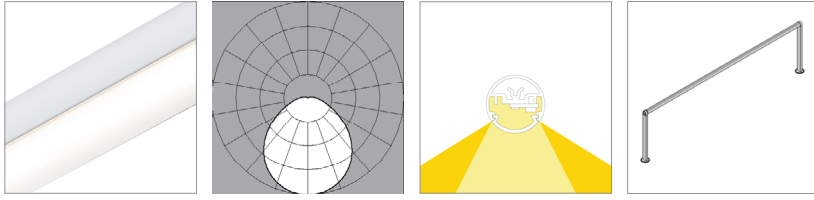(7 mm)

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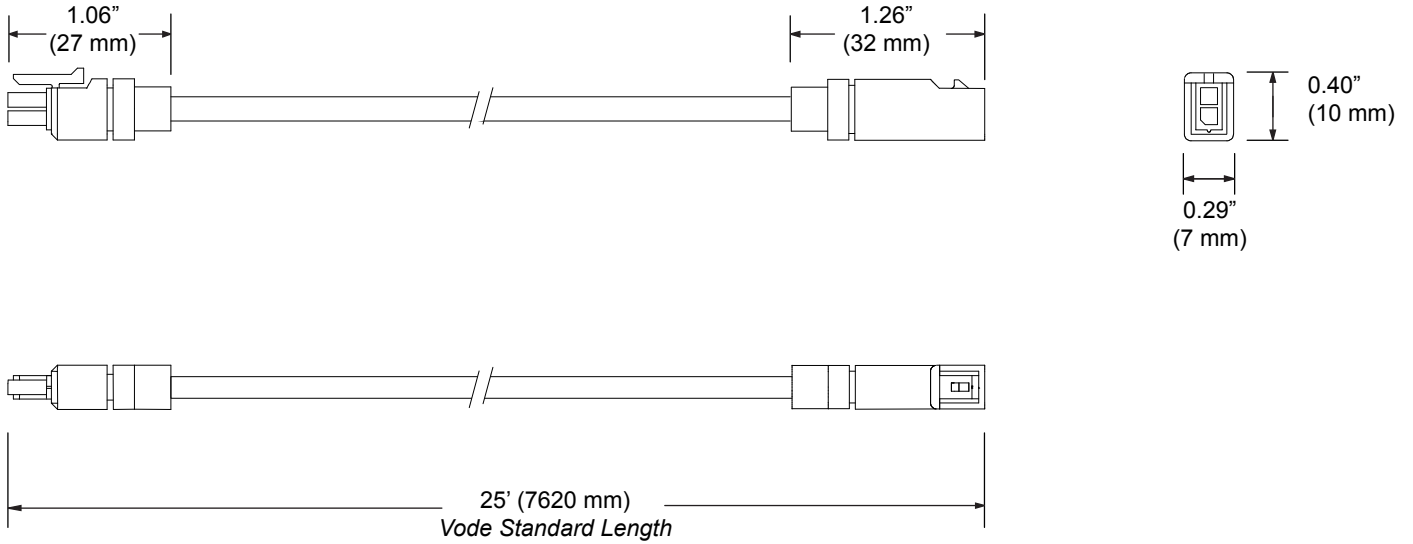
Note: Drawings not to scale, for reference only.

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.

Diffuse, round (2)

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	99	102	105	107	86	88	90	92
Lumens per foot (305mm)	369	381	389	396	318	328	335	342
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	123	127	129	132	106	109	112	114
Lumens per foot (305mm)	739	762	777	793	637	657	670	684
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	115	118	121	123	99	102	104	106
Lumens per foot (305mm)	1403	1448	1477	1507	1210	1248	1273	1299
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

120° Batwing (G1)
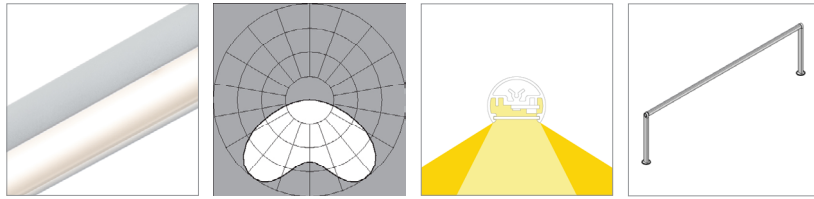
L80 >60,000 hours

	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	88	91	93	95	76	79	80	82
Lumens per foot (305mm)	328	339	346	353	283	292	298	304
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	110	113	115	118	95	98	100	102
Lumens per foot (305mm)	657	677	691	705	566	584	596	608
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	102	105	107	109	88	91	93	94
Lumens per foot (305mm)	1248	1287	1313	1340	1076	1110	1132	1155
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.

120º FlyWing (G2)
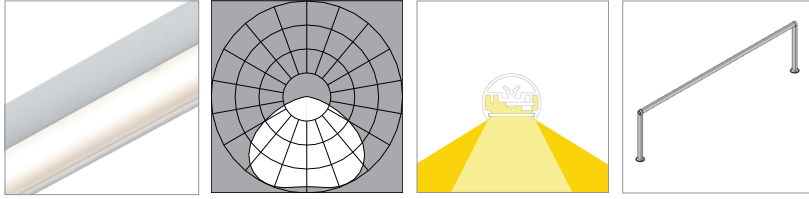
L80 is >60,000 hours

	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	86	89	91	93	74	77	78	80
Lumens per foot (305mm)	320	331	33	344	276	285	291	297
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	107	110	113	115	92	95	97	99
Lumens per foot (305mm)	641	661	675	688	552	570	582	593
Watts per foot (305mm)	6.1	6.1	6.1	6.41	6.1	6.1	6.1	6.1
High Output (HO)								
Efficacy - Lumens per Watt	99	103	105	107	86	89	90	92
Lumens per foot (305mm)	1218	1256	1282	1307	1050	1083	1105	1127
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4