



Spec Guide

RaceRail® | Ceiling Cable | 107

Direct or indirect lighting for open office and ambient applications.



RaceRail: direct or indirect, infinite rotation.

Benefits & Features

Minimal Profile, Robust Design

Round profile, Ø1.12" (28mm).

Superior Light Quality & Performance

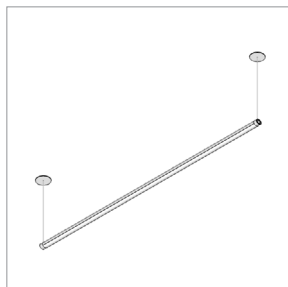
Output up to 1507 lm/ft (4943 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

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 infinite rotation, angle gauge and lock.



Small Round Canopy



Integral Power

Build Your Specification

107-RR	01			CC	>>
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System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Cable Length
107-RR RaceRail	01 Single Rail	Specify overall system length in ft/in or M/mm. <i>Corner and Shapes Available</i> <i>See Guide for details</i>	24 24" (610mm) 36 36" (914mm) 48 48" (1219mm) 60 60" (1524mm) 72 72" (1829mm) ZZ Other rail length or layout (please specify) <i>See Rail Length Chart for more details</i>	CC Ceiling Cable	<i>Field adjustable.</i> 48 48" cable (1219mm) 96 96" cable (2438mm) ZZ Other (please specify)

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Power Location	Power Type	Voltage	Emergency Power
Remote Power	Flexible 1 to 1 Power	1 120v 2 120v-277v X Not Yet Specified	0 No Emergency Power ZZ Emergency Power (specify requirements)
Small Round Canopy	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) Optimized 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.

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LED Type	Lumen Output*	Color Temperature	Optics	Sensors
Z Zipper Board™	LO Low Output SO Standard Output HO High Output ZZ Other (please specify) <i>See IES Files page for details.</i> <i>*See Power Guide for driver features & limitations.</i>	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)

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Finish	Options
AL Clear Anodized	0 None
WH White Painted	9 9' 18/3 Cord and Plug ¹
BL Black Anodized	
ZZ Other (please specify)	

NOTES & LIMITATIONS

¹ 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

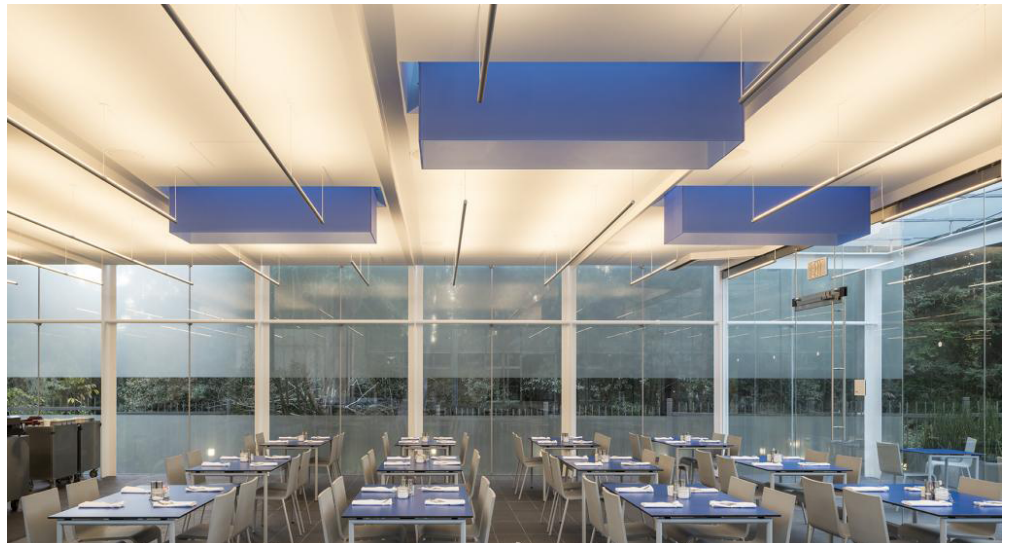
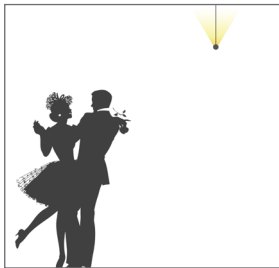
General Interior and Open Office



Square Inc, San Francisco, CA



Nektar Therapeutics Offices, San Francisco, CA



California Academy of Science, Terrace Cafe, San Francisco, CA

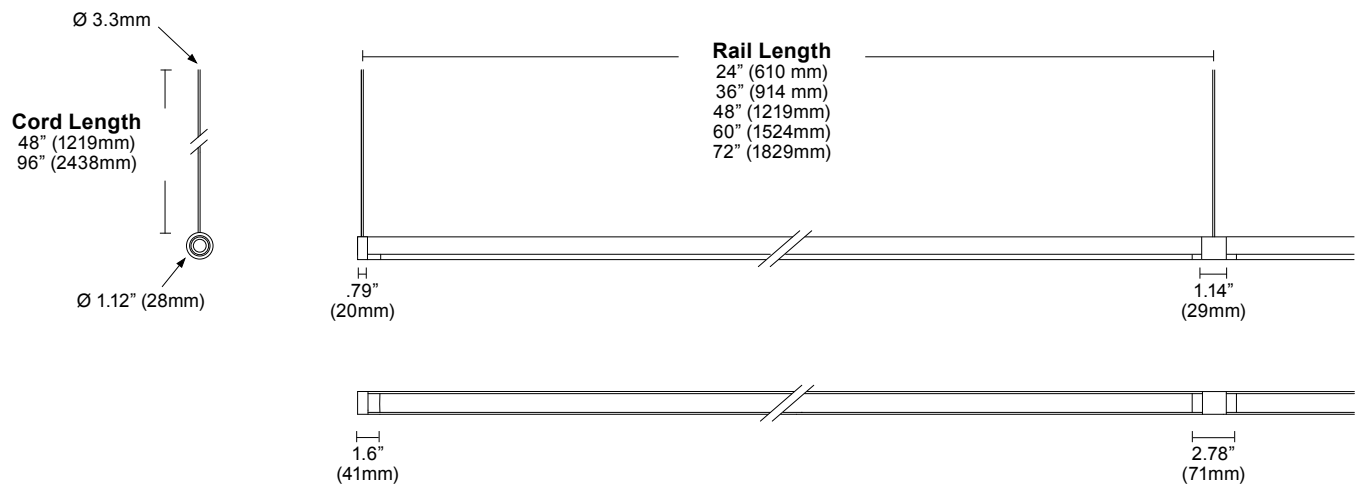
Structure

Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm)
Rail Dimensions	Ø1.12" (28mm)
Construction	Extruded and machined 6063 aluminum
Mounting	Ceiling mount to jbox or driver housing
Cable Length	48" (1219mm) and 96" (2438mm) available. Field adjustable. Non-standard cable lengths available.
System Run Length	24" (610mm) minimum. Unlimited maximum length.
Operating Temperature	32°F to 104°F (0°C to 40°C)
Humidity	0-85%, non-condensing
System Weight	0.65lbs per ft (0.29kg per 305mm) <i>Power supply and housing not included.</i>

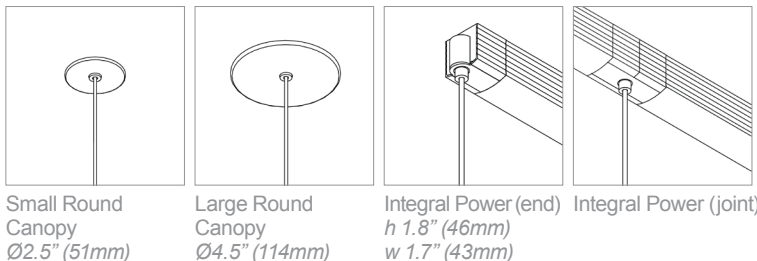
Materials

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 (<i>PVC free in 2020</i>)
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 (<i>PVC free in 2020</i>)
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant (<i>PVC free in 2020</i>)
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

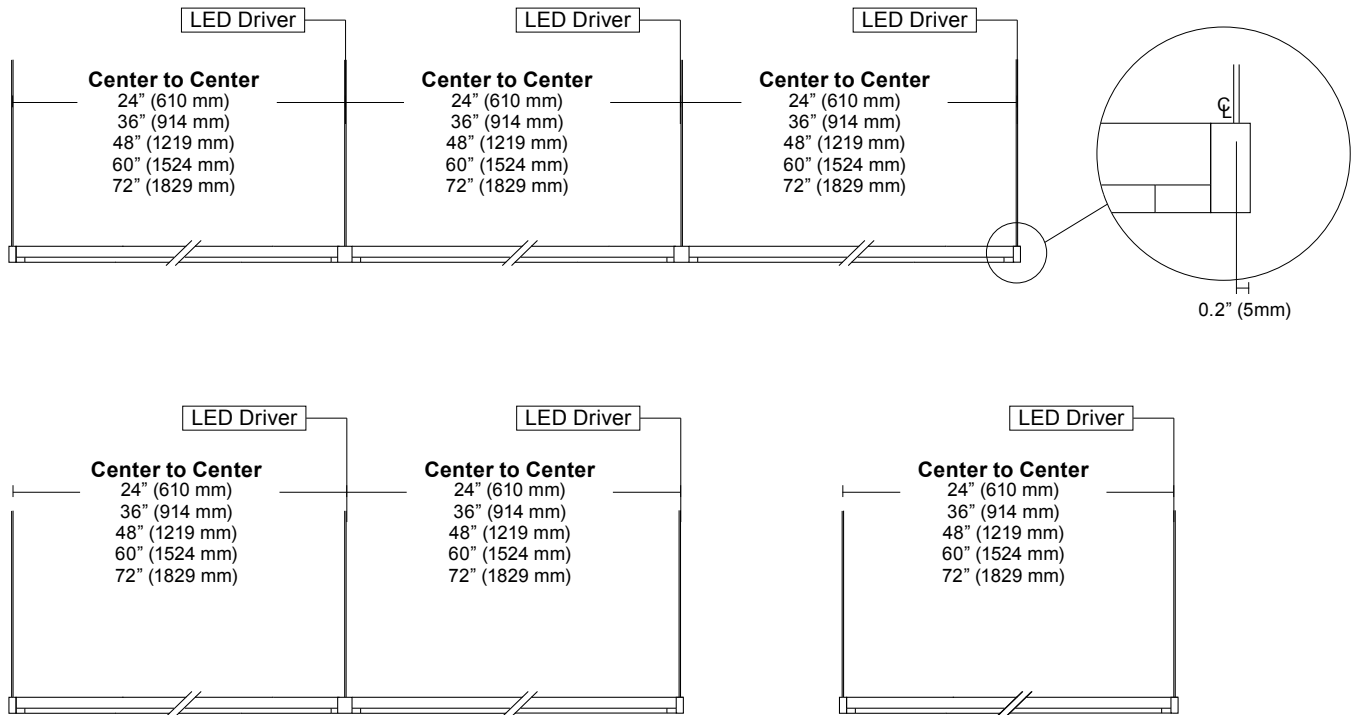
Dimensions



Mounting Options



Layout



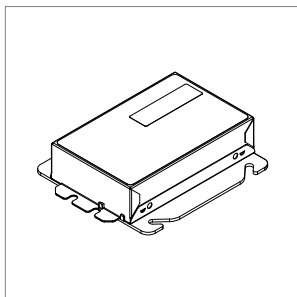
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag)

Power and Controls

Power Type	Class 2 (<60v output) constant current driver
Dimming Controls	Dimming (0.1%, 1%), 0-10v, DALI, DMX, Lutron Hi-lume 1% are available. See Power Guide for details.
Input Voltage	120v - 277v, 50/60hz
Power Location	Integral or remote power. Maximum remote distance up to 100' (30.5m) depending on driver selection. See Power Guide for details.

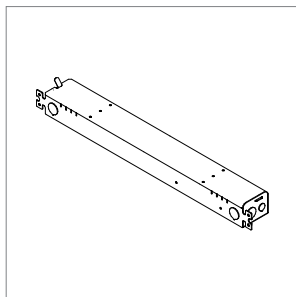
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

Remote Brick Power Housing



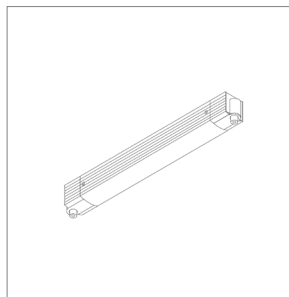
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



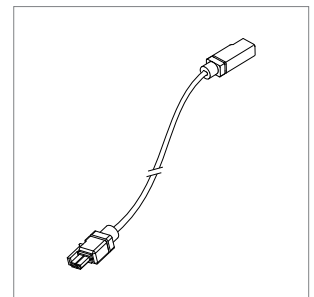
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

Integral Power



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

Wire Harness

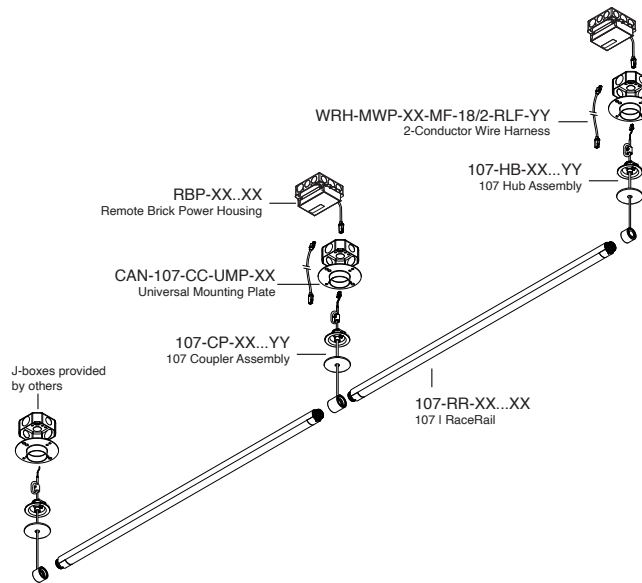


Wire harness connects driver to rail. Wire harness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

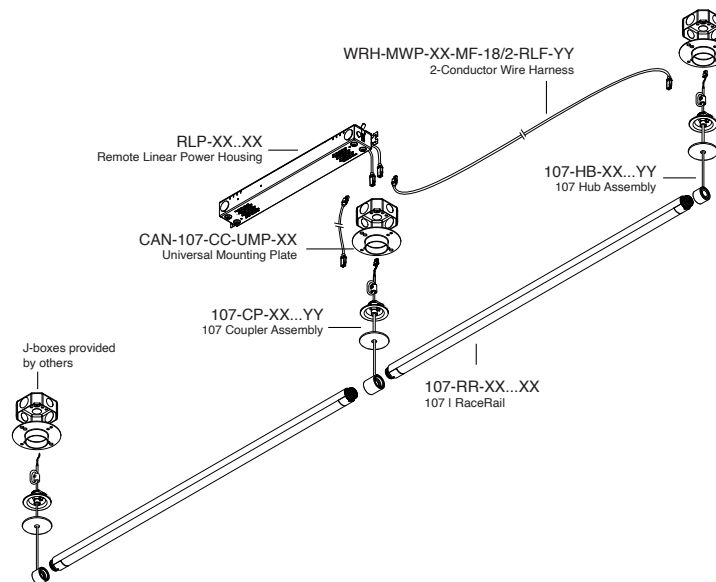
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#) to determine which type you will receive.



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.

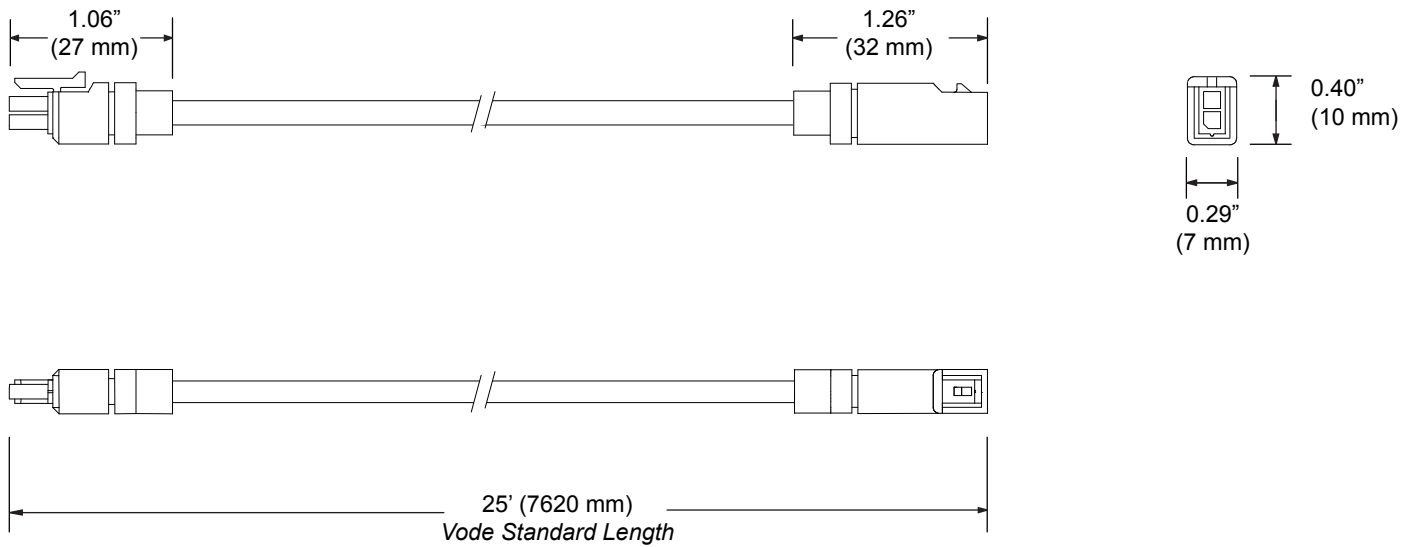


Note: Drawings not to scale, for reference only.

Power and Controls

Wire Harness

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

White Painted Finish



White Rail, White Canopy/Integral Power, White Cable

Black Anodized Finish

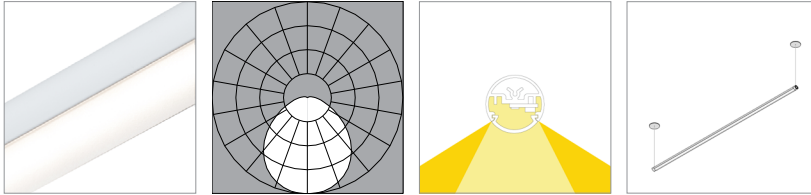


Black Rail, Black Canopy/Integral Power, Black Cable

Performance | Zipper LED

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Diffuse, round (2)



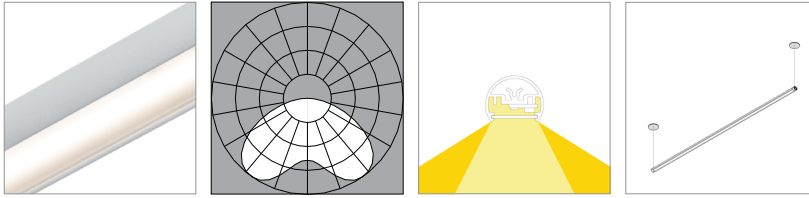
L80 >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Low Output (LO)								
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

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.

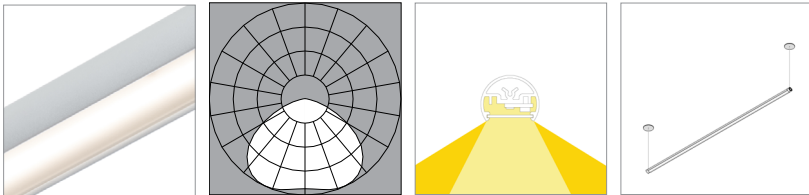
120° Batwing (G1)



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

120° 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
CRI								
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

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