



## Spec Guide

# WingRail® | Table Arm | 107

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



WingRail: direct or indirect, 370° rotation.

## Benefits & Features

### Minimal Profile, Robust Design

Asymmetric profile, 1.14" (29mm) x 2.12" (54mm).

### Superior Light Quality & Performance

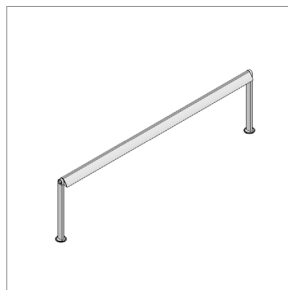
Output up to 1376 lm/ft (4516 lm/m) (HO), 121 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

### Adaptive Power

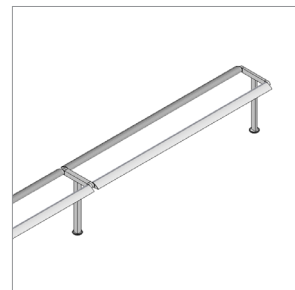
Full range dimming power for all protocols. Integral or remote power available.

### Better Optics & Beam Control Options

Asymmetric distribution. White or black baffle, EdgeSoft™ lens or diffuse lens and narrow optics available. Directional control with 370° rotation, angle gauge and lock.



Arm Anchor®



Double Rail with Tee, Arm Anchor, Continuous System

## Build Your Specification

107-WG				TA	18
System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length
107-WG WingRail	<b>01</b> Single Rail <b>03</b> Double Rail with 3" (76mm) Tee <b>06</b> Double Rail with 6" (152mm) Tee <b>12</b> Double Rail with 12" (305mm) Tee <b>ZZ</b> ZZ Other (please specify)	specify overall system length in feet/inches or M/mm.  <i>Corner and Shapes Available</i> <b>See Guide</b> for details	<b>24</b> 24" (610mm) <b>36</b> 36" (914mm) <b>48</b> 48" (1219mm) <b>60</b> 60" (1524mm) <b>ZZ</b> Other rail length or layout (please specify)	<b>TA</b> Table Arm	<b>18</b> 18" arm (457mm) <b>ZZ</b> Other (please specify) <sup>1</sup>
<i>See Rail Length Chart for more details</i>					

			0	Z
Power Location	Power Type*	Voltage	Emergency Power	LED Type
Remote Power	Flexible 1 to 1 Power	<b>1</b> 120v <b>2</b> 120v-277v <b>X</b> Not Yet Specified	<b>0</b> No Emergency Power <b>ZZ</b> Emergency Power (specify requirements)	<b>Z</b> Zipper Board™
<b>2T25</b> Arm Anchor 25' (7.62m) <b>2T50</b> Wire Harness 50' (15.24m) <b>2T75</b> Wire Harness 75' (22.86m) <b>2T100</b> Wire Harness 100' (30.48m) Wire Harness	<b>AE</b> eldoLED 0-10v, 1.0% Dimming <b>AT</b> eldoLED 0-10v, 0.1% Dimming <b>AD</b> eldoLED DALI, 0.1% Dimming <b>AX</b> eldoLED DMX, 100-0% Dimming <b>AH</b> Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE1 <b>AH2</b> Hi-lume 1% 2-wire LTEA2W (120V forward phase only)  <b>Optimized Power</b> <b>AEO</b> eldoLED 0-10v, 1.0% Dimming <b>ATO</b> eldoLED 0-10v, 0.1% Dimming <b>ADO</b> eldoLED DALI, 0.1% Dimming <b>AXO</b> eldoLED DMX, 100-0% dimming <b>ZZ</b> Other (please specify)			
*See <b>Power Guide</b> for driver features & limitations.				

			0		
Lumen Output*	Color Temperature	Optics	Sensors	Finish	Options
<b>LO</b> Low Output <b>SO</b> Standard Output <b>HO</b> High Output <b>ZZ</b> Other (please specify)  <i>See IES Files page for details.</i> <i>*See Power Guide for driver features &amp; limitations.</i>	<b>80+ CRI</b> <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K  <b>90+ CRI</b> <b>279</b> 2700K <b>309</b> 3000K <b>359</b> 3500K <b>409</b> 4000K  <b>ZZ</b> Tunable White Available <b>See Guide</b> for details	<b>Zipper Board (Z)</b> <b>WB</b> White Baffle with EdgeSoft™ <b>BB</b> Black Baffle with EdgeSoft <b>C1</b> Clear with Edge Softening <b>D1</b> Diffuse	<b>0</b> None <b>ZZ</b> Other (specify requirements)	<b>AL</b> Clear Anodized <b>WH</b> White Painted <b>BL</b> Black Anodized <b>ZZ</b> Other (please specify)	<b>0</b> None <b>1</b> On/Off Switch <sup>2</sup> <b>9</b> 9' 18/3 Cord and Plug <sup>3</sup>

## NOTES &amp; LIMITATIONS

<sup>1</sup> Arm lengths > 48" not recommended<sup>2</sup> One On/Off Switch per LED Driver<sup>3</sup> 9' 18/3 Cord and Plug is not available with On/Off Switch5 Year Limited Warranty. See full Vode warranty description [here](#) or at [vode.com](#).

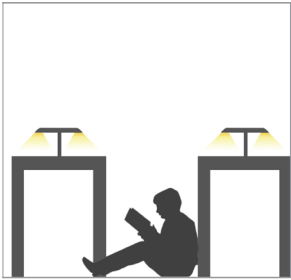
Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA.





## Applications

### Corporate, Educational, and Library



Saddleback College Library, Mission Viego, CA



Libbie Mill Library, Richmond, VA



Penn State University, Dickinson School of Law Library, University Park, PA

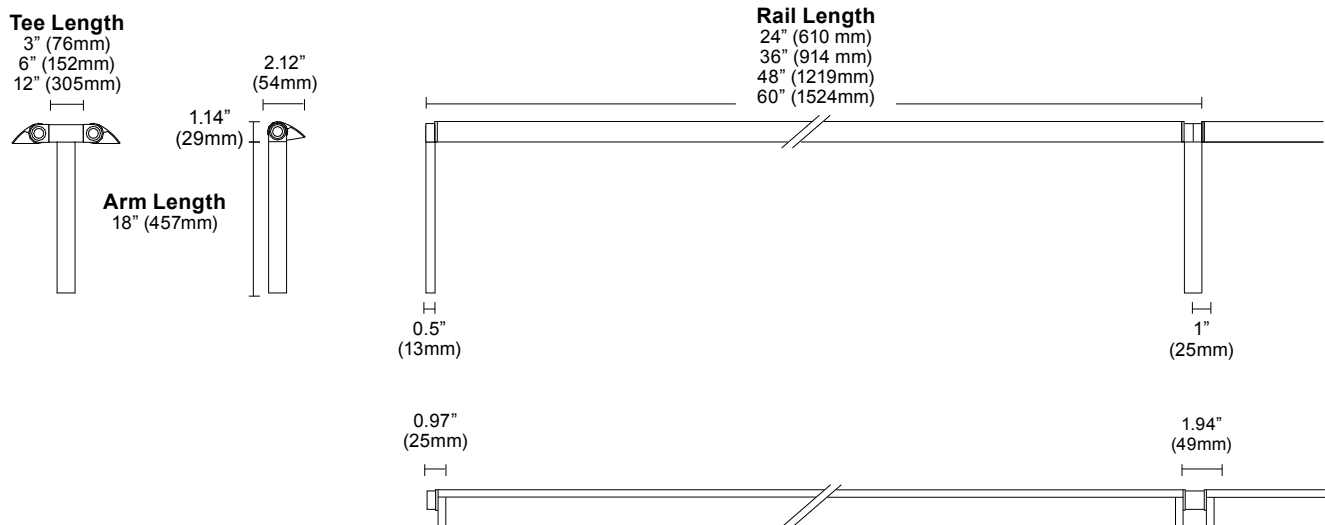
## Structure

Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm).
Rail Dimensions	1.14" (29mm) x 2.12" (54mm).
Construction	Extruded and machined 6063 aluminum. Clear anodized, black anodized, white painted and other finishes available.
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	1.04 lbs per ft (0.47kg per 305mm). <i>Power supply and housing not included.</i>

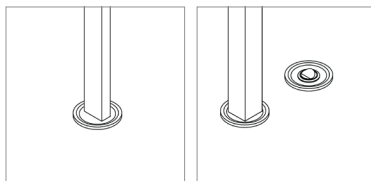
## Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Clear Lens, Diffuse Lens	High-impact extruded acrylic glass (PMMA).
Baffle	6063 Aluminum, RoHS compliant painted finish.
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



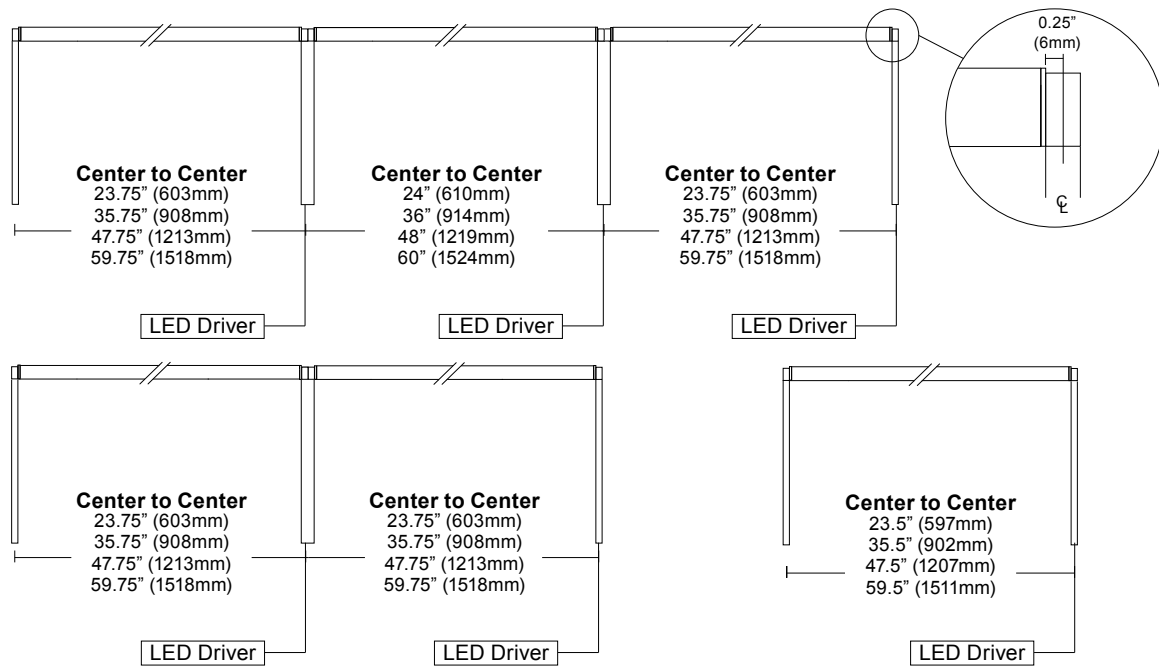
## Mounting Options



Arm Anchor®  
h0.1" (3mm)  
Ø2" (51mm)

On/Off Switch  
(optional)

## Layout



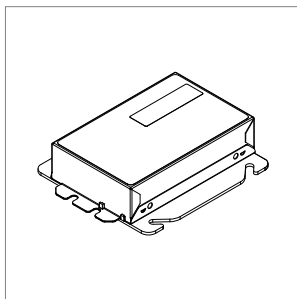
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag)

## 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 <a href="#">Power Guide</a> 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 <a href="#">Power Guide</a> for details.

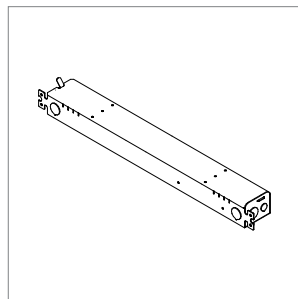
Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive.

### Remote Brick Power Housing



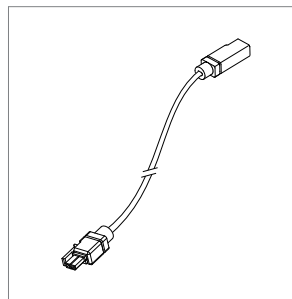
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in<sup>3</sup> (J-Box not provided). See [Tech Sheet](#) for details.

### 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

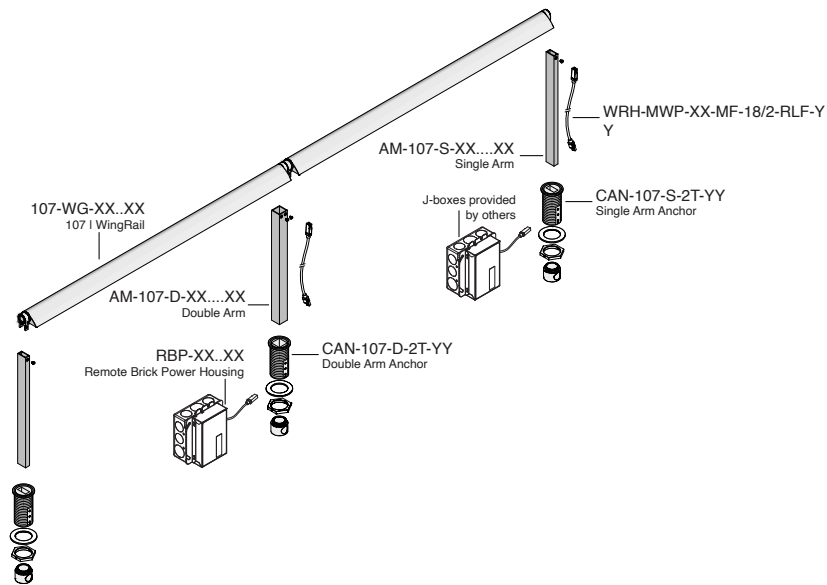


Wire harness connects driver to rail. Wire harness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). See [Tech Sheet](#) for details.

## Power and Controls

### Flexible 1 to 1 power

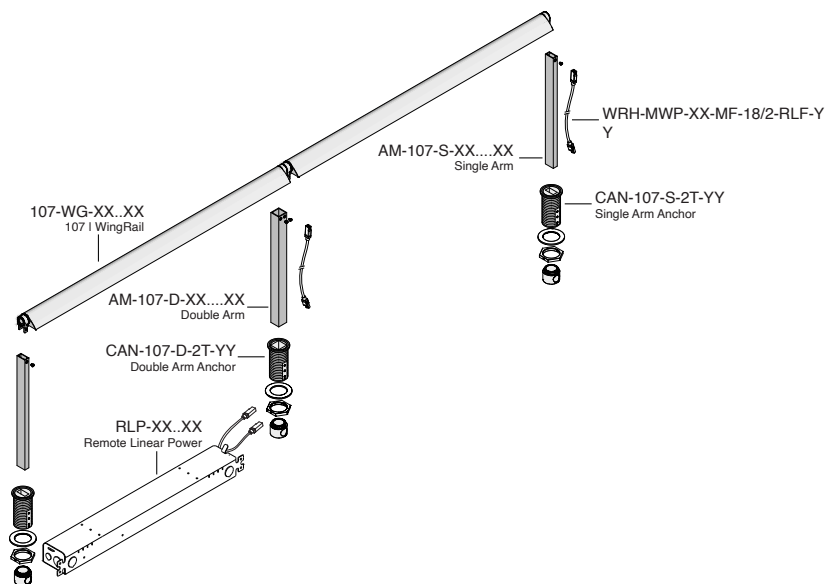
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

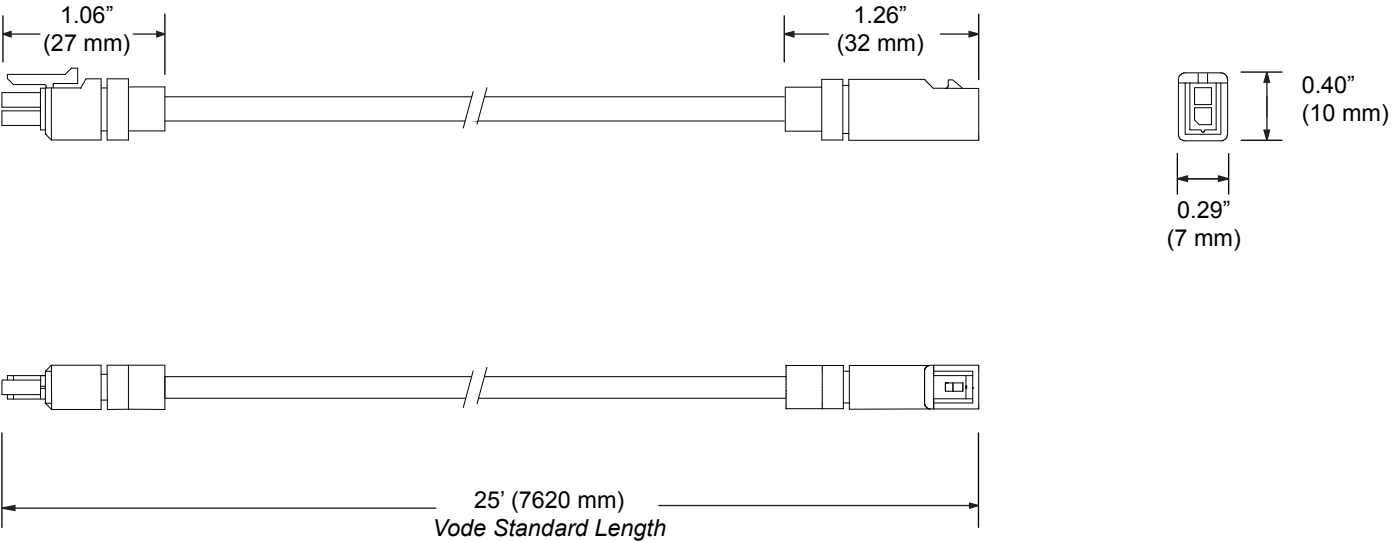


Note: Drawings not to scale, for reference only.

Power and Controls

Wire Harness

Low voltage wire harness connects driver to rail. Wire 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.

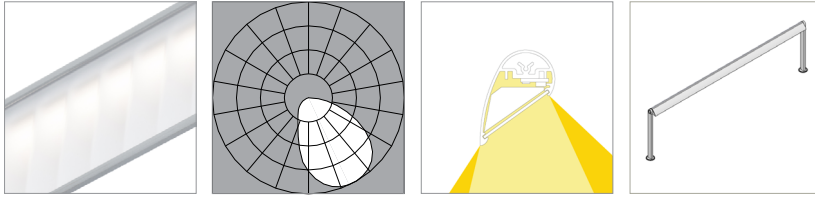


Note: Drawings not to scale, for reference only.

## 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.

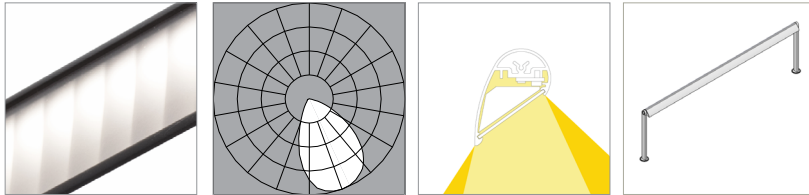
### White Baffle with EdgeSoft™ (WB)



L80 >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>								
Efficacy - Lumens per Watt	92	94	96	96	79	82	83	84
Lumens per foot (305mm)	315	325	331	331	271	280	285	288
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	106	109	111	111	91	94	96	97
Lumens per foot (305mm)	629	649	662	662	542	560	571	577
Watts per foot (305mm)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	98	101	103	103	84	87	89	90
Lumens per foot (305mm)	1195	1233	1258	1258	1031	1063	1085	1096
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

### Black Baffle with EdgeSoft™ (BB)



L80 >60,000 hours

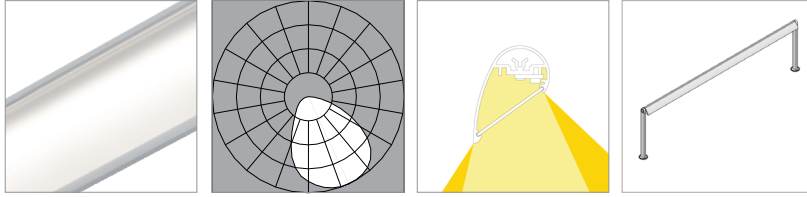
	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>								
Efficacy - Lumens per Watt	57	59	60	60	50	51	52	53
Lumens per foot (305mm)	197	203	207	207	170	175	179	180
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	66	68	69	69	57	59	60	61
Lumens per foot (305mm)	393	406	414	414	339	350	357	361
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0
<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	61	63	65	65	53	55	56	56
Lumens per foot (305mm)	748	771	787	787	644	665	678	685
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3



## 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.

### Clear with EdgeSoft™ (C1)



L80 >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>								
Efficacy - Lumens per Watt	110	114	116	116	95	98	100	101
Lumens per foot (305mm)	379	391	399	399	327	337	344	348
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

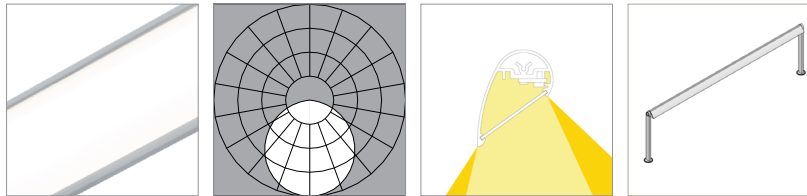
### Standard Output (SO)

Efficacy - Lumens per Watt	126	130	133	133	109	113	115	116
Lumens per foot (305mm)	759	783	799	799	654	675	688	695
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0

### High Output (HO)

Efficacy - Lumens per Watt	118	122	124	124	102	105	107	108
Lumens per foot (305mm)	1441	1487	1517	1517	1243	1282	1308	1321
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

### Diffuse (D1)



L80 is >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>								
Efficacy - Lumens per Watt	79	81	83	83	68	70	72	73
Lumens per foot (305mm)	271	280	285	285	234	241	246	248
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

### Standard Output (SO)

Efficacy - Lumens per Watt	91	93	95	95	78	81	83	83
Lumens per foot (305mm)	542	559	571	571	467	482	492	497
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0

### High Output (HO)

Efficacy - Lumens per Watt	84	87	89	89	73	75	77	77
Lumens per foot (305mm)	1030	1063	1084	1084	888	916	935	944
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

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