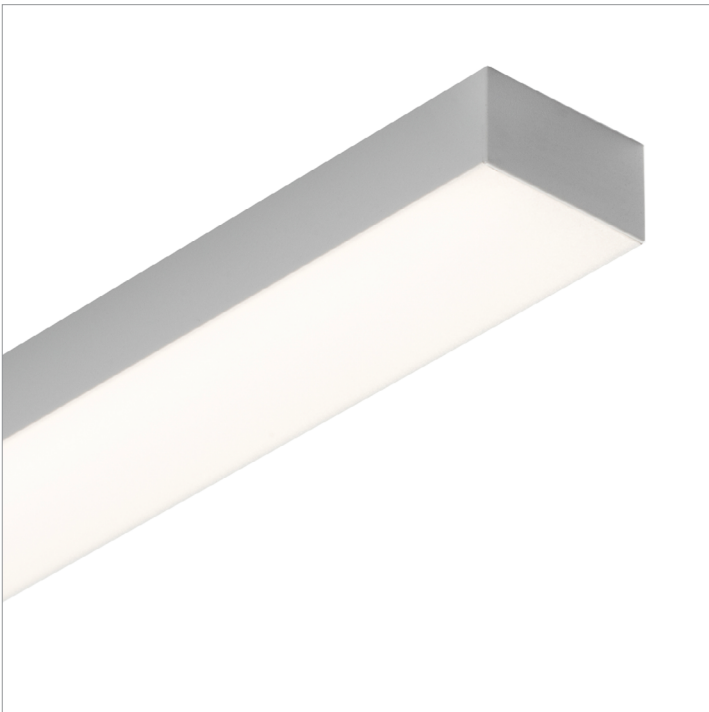




## Spec Guide

# ZipTwo® | Square 3520 | 707

Direct lighting for open office and ambient applications.



Square 3520, Critical Edge, white

### Benefits & Features

#### Minimal Profile, Robust Design

Square profile. 1.38" (35mm) x 0.75" (19mm).

#### Superior Light Quality & Performance

Output up to 1404 lm/ft (4,605 lm/m) (HO), 144 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

#### Versatile Mounting, Easy Installation

Magnet with tape-on metal strip or low profile clip allow for mounting to almost any surface or T-Bar ceiling.

#### Extensive Optics

Options of Diffuse, Critical Edge, and Side Diffuse give designers the power to create and design their space using one product.



Square 3520, Diffuse, white



Square 3520, Side Diffuse, Black

## Build Your Specification

<b>707-Z2</b>	<b>SL</b>				<b>0</b> >>
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System & Rail Type	System Type	System Length	Rail Length	Mounting	Arm/Cord Length
707-Z2 ZipTwo	SL Standard Linear	Specify overall system length in ft/in or M/mm.  <i>Corners and Shapes Available. See <a href="#">Corners and Shapes Guide</a> for more details.</i>	<b>24</b> 24" (610mm) <b>36</b> 36" (914mm) <b>48</b> 48" (1219mm) <b>60</b> 60" (1524mm) <b>72</b> 72" (1829mm) <b>96</b> 96" (2438mm) <b>108</b> 108" (2743mm) <b>120</b> 120" (3048mm) <b>132</b> 132" (3352mm) <b>144</b> 144" (3658mm) <b>ZZ</b> Other rail length or layout (please specify)  <i>See <a href="#">Rail Length Chart</a> for more details</i>	<b>C</b> Clip <b>CM</b> Clip with Micro J-Box <b>T</b> Magnet with Tape-On Metal Strip <b>T1</b> 9/16" T-Bar Clip, low profile <b>T2</b> 15/16" T-Bar Clip, low profile <b>T3</b> 15/16" T-Bar Clip, medium profile <b>T4</b> 15/16" T-Bar Clip, concealed <b>T5</b> 9/16" T-Bar Clip, medium profile <b>T6</b> Slotted T-Bar Clip <b>T7</b> Dimensional T-Bar Clip <b>SC</b> Strut Channel Clip <b>DM</b> Armstrong DynaMax <b>ZZ</b> Other (please specify)	<b>0</b> None

>>				<b>Z</b> >>
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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 <i>(specify requirements)</i>	<b>Z</b> Zipper Board™ <b>ZZ</b>
<b>RP25</b> 25' (7.62m) Wire Harness <b>RP50</b> 50' (15.24m) Wire Harness <b>RP75</b> 75' (22.86m) Wire Harness <b>RP100</b> 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 <a href="#">Power Guide</a> for driver features & limitations.				

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Lumen Output	Color Temperature	Optics	Sensors
<b>LO</b> Low Output <b>SO</b> Standard Output <b>HO</b> High Output* <b>ZZ</b> Other (please specify)  <i>See <a href="#">IES Files</a> page for details.</i> *See <a href="#">Power Guide</a> for driver features & limitations.	<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 <a href="#">See Guide</a> for details	<b>F5</b> Square 3520, Critical Edge <b>F6</b> Square 3520, Diffuse <sup>1</sup> <b>F9</b> Square 3520, Side Diffuse <b>FA</b> Square 3520, Single Side Diffuse	<b>0</b> None <b>ZZ</b> Other (please specify) <sup>2</sup>

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Finish	Options
<b>WH</b> White <b>BL</b> Black	<b>0</b> None <b>9</b> 9' 18/3 Cord and Plug <b>CP</b> Contact factory for Chicago Plenum

### NOTES & LIMITATIONS

<sup>1</sup> Square 3520, Diffuse is only available in White Finish (WH).  
<sup>2</sup> Sensors available. Contact [Vode](#) for more information.

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



## Structure

Rail Lengths	24" (610mm) - 144" (3658mm) See <a href="#">Rail Length Chart</a> for more details.
Rail Dimensions	1.38" (35mm) x 0.75" (19mm). See dimensions section for details.
Construction	Extruded and machined 6063 aluminum.
Mounting	Clip, Clip with Micro J-Box, Magnet with Tape-On Metal Strip, T-Bar Clips for most grid/panel construction, Strut Channel Clip.
Run Length	24" (610mm) minimum. Rail lengths may be installed end-to-end to any length.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-95%, non-condensing. Suitable for damp locations.
System Weight	Diffuse, Side Diffuse, Single Side Diffuse: 0.27lbs per ft (0.12kg per 305mm). Power supply and housing not included. Critical Edge: 0.32lbs per ft (0.15kg per 305mm). Power supply and housing not included.

## Materials

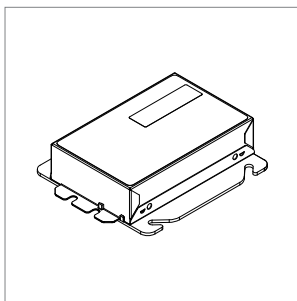
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Power Cable	Ø3mm, 33/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910, red list free.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant, red list free.
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

## 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.

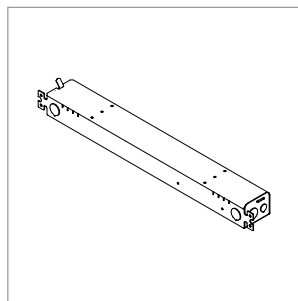
Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive.

### Remote Brick Power Housing



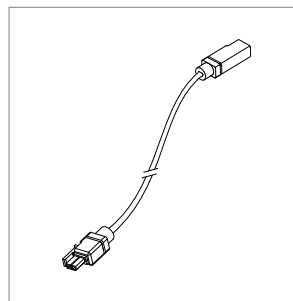
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in<sup>3</sup> (J-Box not provided). See [Tech Sheet](#) for details.

### 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

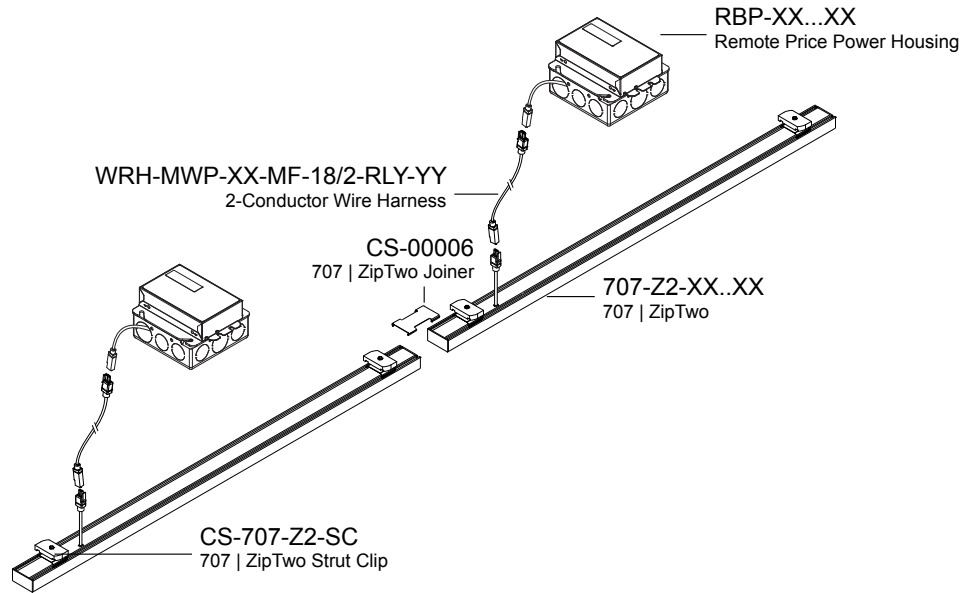


Wire harness connects driver to rail. Wire harness is 25' (7.6m) with micro fit molex connectors for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). See [Tech Sheet](#) for details.

## Power and Controls

### Flexible 1 to 1 power

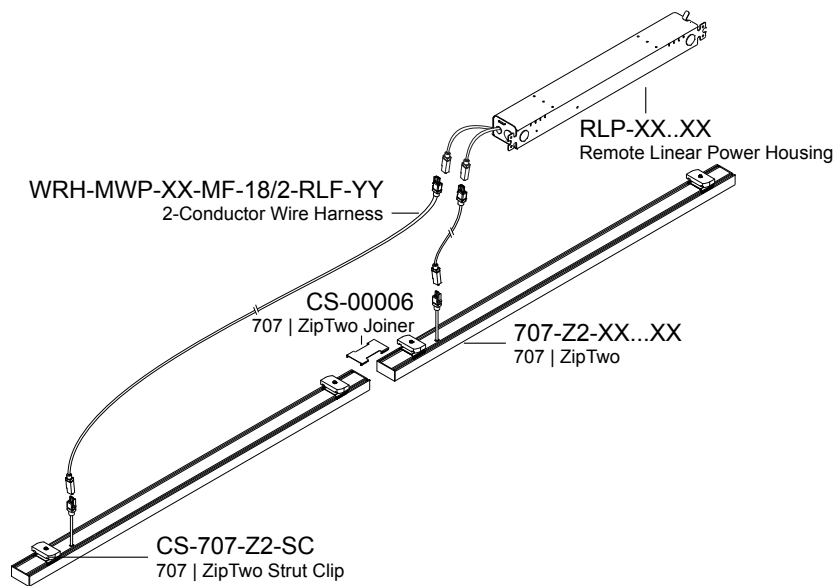
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

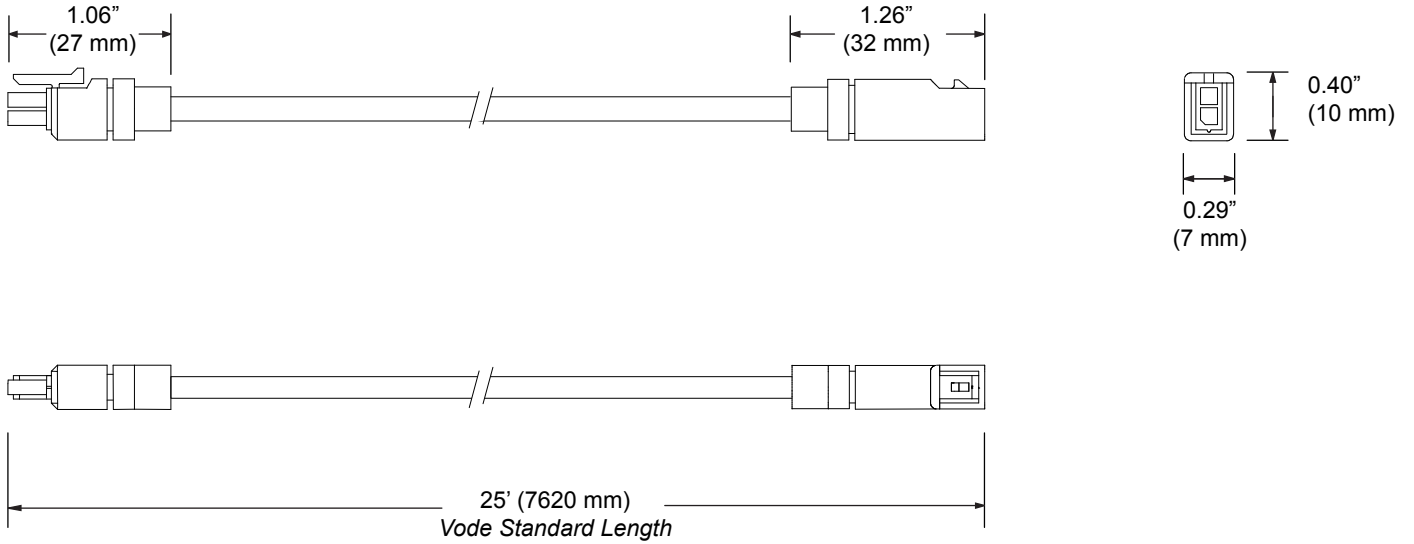


Note: Drawings not to scale, for reference only.

## Power and Controls

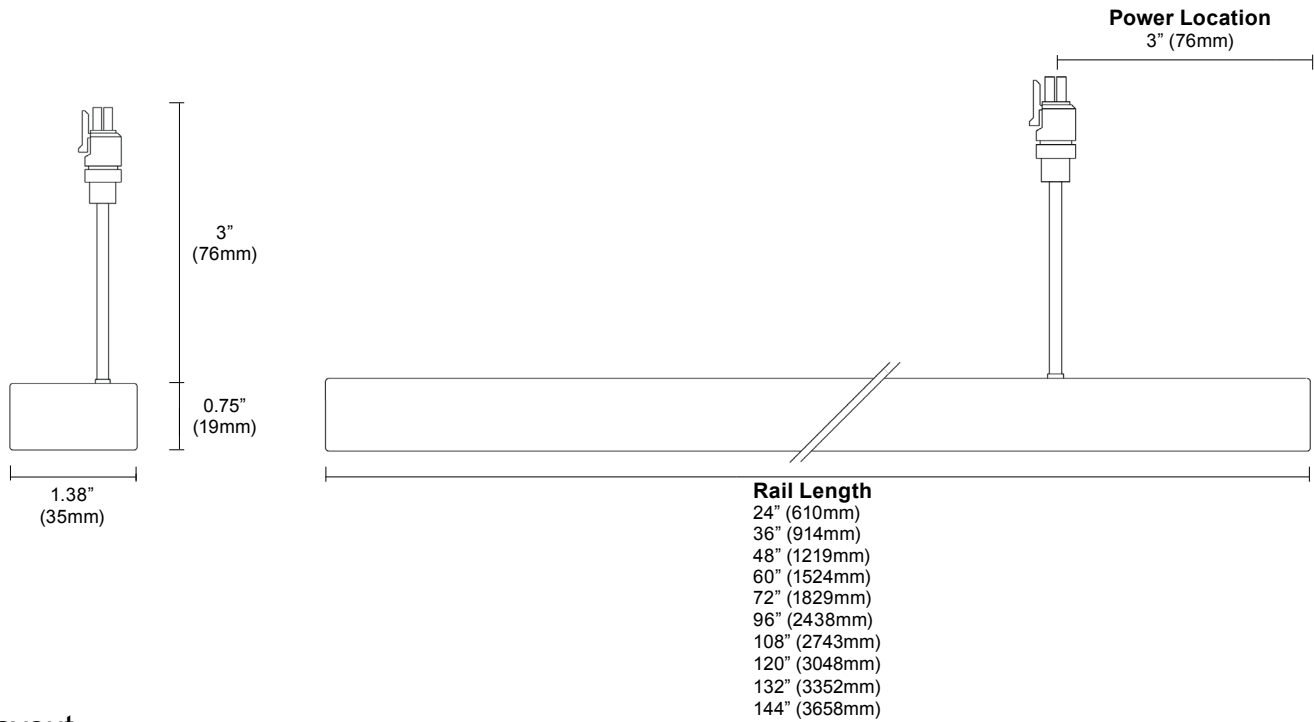
### Wire Harness

Low voltage wire harness connects driver to rail. Wire 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.

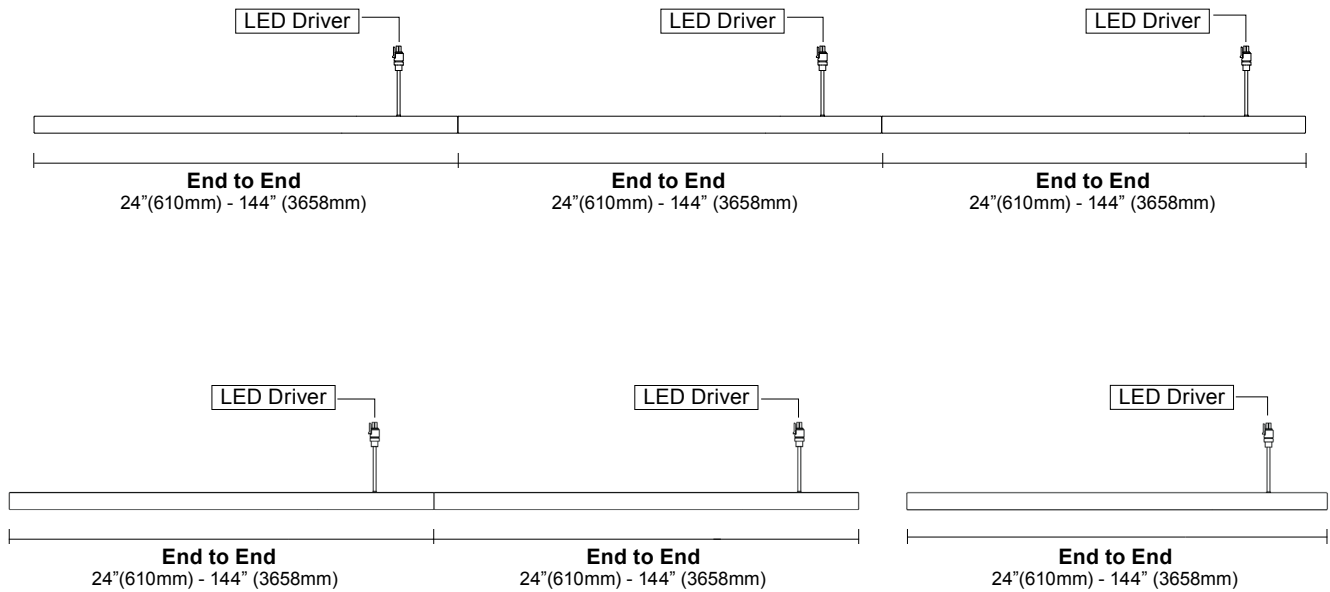


Note: Drawings not to scale, for reference only.

## Dimensions



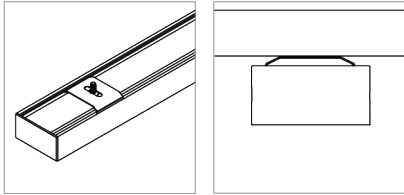
## Layout



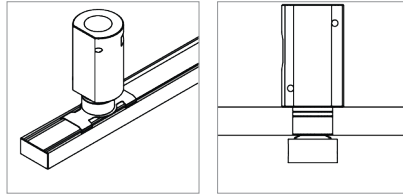
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag)

[See Guide](#) for details

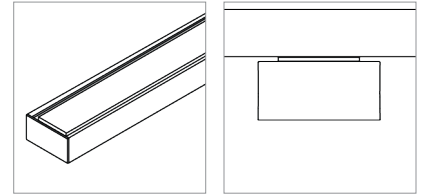
## Mounting Options



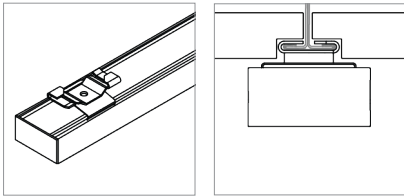
Clip (C)



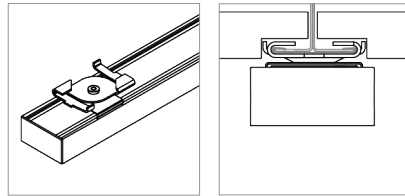
Clip with Micro J-Box (CM)



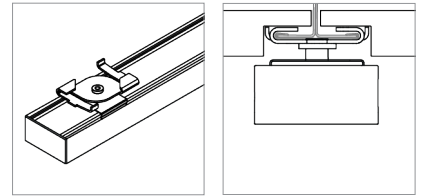
Magnet with Tape-On Metal Strip (T)



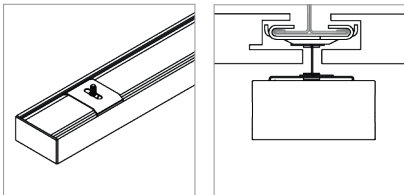
9/16" T-Bar Clip, low profile (T1)



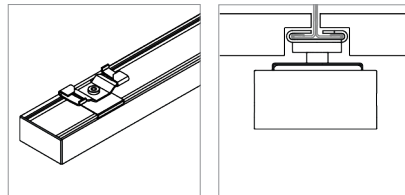
15/16" T-Bar Clip, low profile (T2)



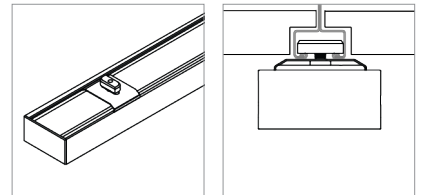
15/16" T-Bar Clip, medium profile (T3)



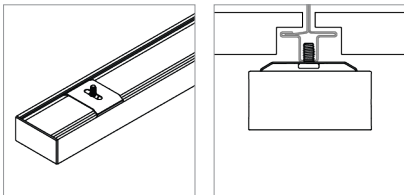
15/16" T-Bar Clip, concealed (T4)



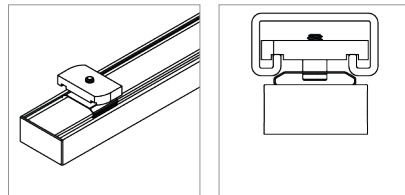
9/16" T-Bar Clip, medium profile (T5)



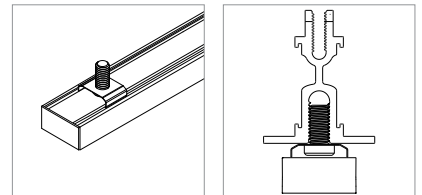
Slotted T-Bar Clip (T6)



Dimensional T-Bar Clip (T7)



Strut Channel Clip (SC)



Armstrong DynaMax (DM)

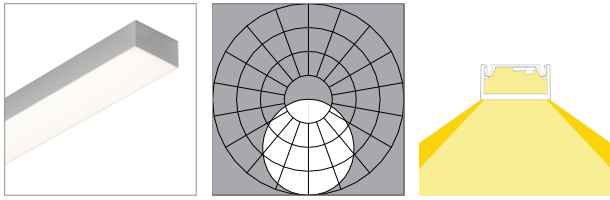
See [ZipTwo Clip Guide](#) to check compatibility.



## 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.

### Square 3520, Critical Edge, white finish (F5-WH)



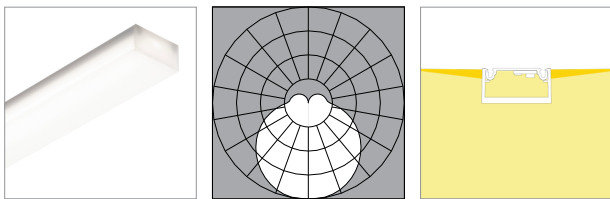
L80 >60,000 hours

	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	76	78	80	80	65	67	69	69
Lumens per foot (305mm)	280	289	295	295	242	249	254	257
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	86	89	91	91	74	77	78	79
Lumens per foot (305mm)	560	578	590	590	483	498	508	514
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6

<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	85	88	90	90	74	76	78	78
Lumens per foot (305mm)	840	867	885	885	725	747	763	770
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

### Square 3520, Diffuse, white finish (F6-WH)



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	120	124	126	126	103	107	109	110
Lumens per foot (305mm)	445	459	468	468	383	395	404	408
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

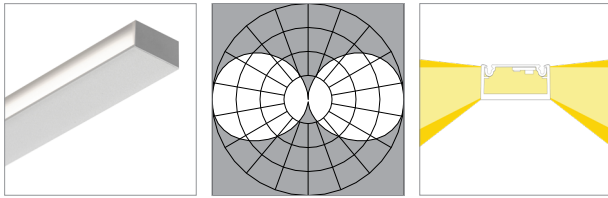
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	137	141	144	144	118	121	124	125
Lumens per foot (305mm)	889	917	936	936	767	791	807	815
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6

<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	135	140	143	143	117	120	123	124
Lumens per foot (305mm)	1334	1376	1404	1404	1150	1186	1211	1223
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

## 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.

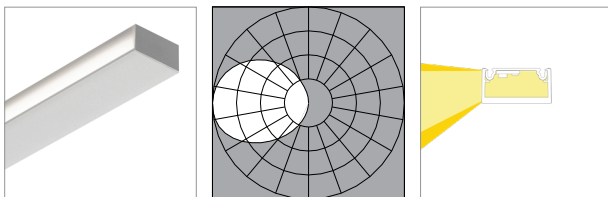
### Square 3520, Side Diffuse, white finish (F9-WH)



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	61	62	64	64	52	54	55	56
Lumens per foot (305mm)	224	231	235	235	193	199	203	205
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	69	71	73	73	60	62	63	63
Lumens per foot (305mm)	447	461	471	471	386	398	406	410
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	68	71	72	72	59	61	62	63
Lumens per foot (305mm)	671	692	706	706	578	597	609	615
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

### Square 3520, Single Side Diffuse, white finish (FA-WH)



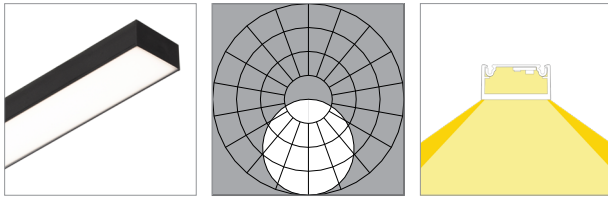
L80 >60,000 hours

	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	38	40	40	40	33	34	35	35
Lumens per foot (305mm)	141	146	149	149	122	126	128	130
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	44	45	46	46	38	39	40	40
Lumens per foot (305mm)	283	292	298	298	244	251	256	259
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	43	45	46	46	37	39	39	40
Lumens per foot (305mm)	424	437	446	446	365	377	385	389
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

## 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.

### Square 3520, Critical Edge, black finish (F5-BL)



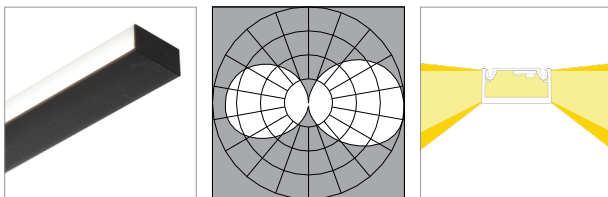
L80 >60,000 hours

	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	49	51	52	52	43	44	45	45
Lumens per foot (305mm)	182	188	192	192	157	162	165	167
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	56	58	59	59	48	50	51	51
Lumens per foot (305mm)	364	376	383	383	314	324	330	334
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6

<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	56	57	59	59	48	50	51	51
Lumens per foot (305mm)	546	564	575	575	471	486	496	501
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

### Square 3520, Side Diffuse, black finish (F9-BL)



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	51	53	54	54	44	45	46	47
Lumens per foot (305mm)	188	194	198	198	162	167	170	172
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

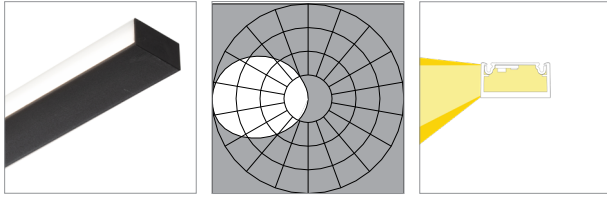
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	58	60	61	61	50	52	53	53
Lumens per foot (305mm)	376	388	396	396	324	334	341	344
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6

<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	58	59	61	61	50	51	52	53
Lumens per foot (305mm)	564	581	593	593	486	501	511	517
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

## 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.

### Square 3520, Single Side Diffuse, black finish (FA-BL)



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	29	30	31	31	25	26	27	27
Lumens per foot (305mm)	107	111	113	113	93	95	97	98
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
<b>Standard Output (SO)</b>								
Efficacy - Lumens per Watt	33	34	35	35	29	30	30	31
Lumens per foot (305mm)	215	221	226	226	185	191	195	197
Watts per foot (305mm)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
<b>High Output (HO)</b>								
Efficacy - Lumens per Watt	33	34	35	35	29	29	30	30
Lumens per foot (305mm)	322	332	339	339	278	286	292	295
Watts per foot (305mm)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9