

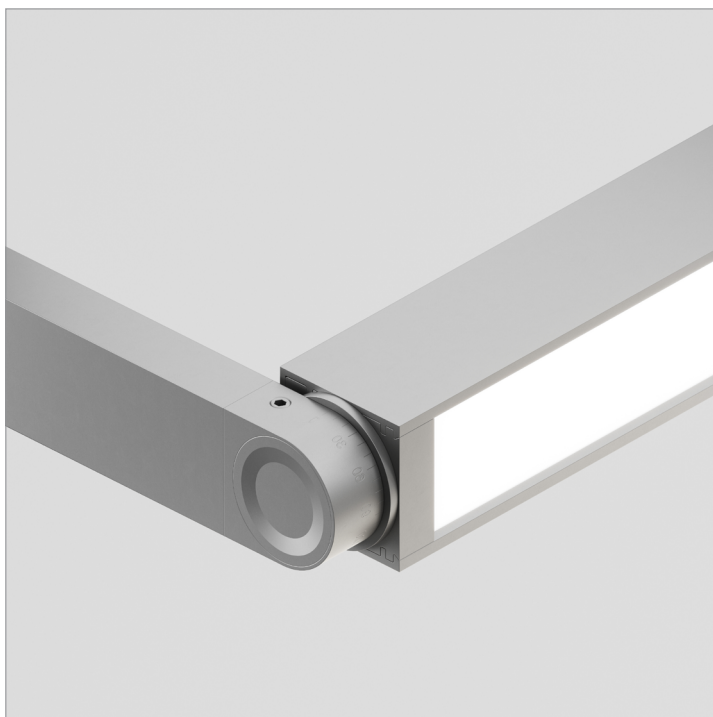


Spec Guide

# BoxRail | Stack | 117



Direct lighting for library stack and display applications.



BoxRail, direct or indirect, 370° rotation.

## Benefits & Features

### Minimal, Robust Design

Square profile, 1.14 in x 1.14 in.

### Superior Light Quality & Performance

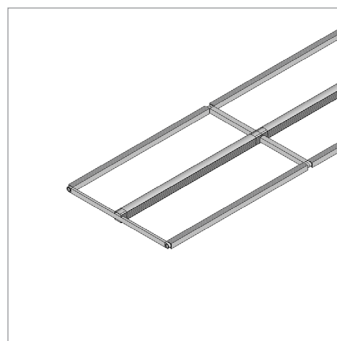
Output up to 1484 lm/ft (HO), 131 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

### High Performance Optics

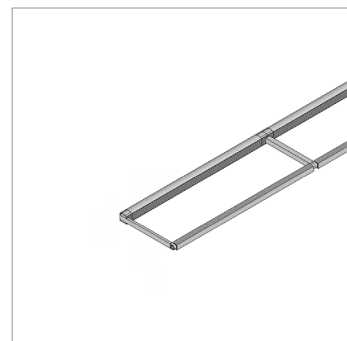
Break through Batwing lens designed for excellent fixture to fixture spacing.

### Better Optics & Beam Control Options

Batwing, FlyWing™, MicroBaffle™, diffuse lens and narrow optics available. Directional control with 370° rotation, angle gauge and lock.



Double-sided



Single-sided

## Build Your Specification

<b>117-BX</b>				<b>ST</b>	<b>18</b> >>
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System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length
117-BX BoxRail	<b>K1</b> Single-sided <b>K2</b> Double-sided	Specify overall system length in ft/in or M/mm.	<b>24</b> 24" (610mm) <sup>1</sup> <b>36</b> 36" (914mm) <b>48</b> 48" (1219mm) <b>60</b> 60" (1524mm) <b>72</b> 72" (1829mm) <b>ZZ</b> Other rail length or layout (please specify) See <a href="#">Rail Length Chart</a> for more details. ▲ <b>Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.</b>	<b>ST</b> Stack	<b>18</b> 18" arm (457mm) <b>ZZ</b> Other (please specify)

>> <b>IP</b>				<b>Z</b> >>
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Power Location	Power Type	Voltage	Emergency Power	LED Type
Integral Power <b>IP</b> Integral Power	<b>AE</b> 0-10V, 1.0% Dimming <b>AT</b> 0-10V, 0.1% Dimming <b>AD</b> DALI, 0.1% Dimming <b>AX</b> DMX, 100-0% Dimming <b>AH</b> Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE <sup>1</sup> <b>AH2</b> ELV 1% 2-wire (Forward and Reverse Phase)	<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

See [Power Guide](#) for driver features & limitations.

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Lumen Output	Color Temperature	Optics	Finish	Options
<b>LO</b> Low Output <b>SO</b> Standard Output <b>HO</b> High Output <b>ZZ</b> Other (please specify)	<b>90+ CRI</b> <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K <b>ZZ</b> Other (please specify)	<b>Zipper Board (Z)</b> <b>1</b> Diffuse <b>WB</b> White Baffle <b>BB</b> Black Baffle <b>G1</b> 120° Batwing <b>G2</b> 120° FlyWing <b>S1</b> 40° Symmetric <b>S2</b> 60° Symmetric <b>A1</b> 85° Asymmetric	<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>ZZ</b> Other (please specify)

See [IES Files](#) page for details.  
See [Power Guide](#) for driver features & limitations.

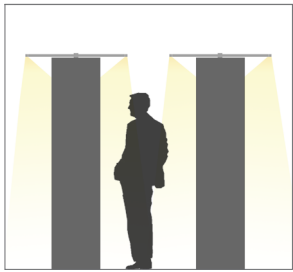
Standard 5 Year Limited Warranty. See details [here](#). Contact factory for options on Limited Warranties up to 20 years.

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



## Applications

### Library Stack and Display



## Structure

Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm).
Rail Dimensions	1.14" (29mm) x 1.14" (29mm).
Construction	Extruded and machined 6063 aluminum.
Mounting	Single or double-sided stack mount to integral power housing.
Arm Length	18" (457mm). Standard and non-standard lengths available. Single-sided requires lengths 24" or less.
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.

## 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.
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> )
Integral Power Housing	Extruded and machined 6063 aluminum.

## Sustainability & Certifications

### DECLARE

#### International Living Future Institute (ILFI)



All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.

**Vode Adaptive Architectural Lighting Systems**  
**Vode Lighting LLC**

**Final Assembly:** Sonoma, California, US  
**Life Expectancy:** 10+ Year(s)  
**End of Life Options:** Recyclable (100%)

**Ingredients:**

Steel; Anodized Aluminum (6063-T5 Alloy); Small Electrical Component (RoHS); Copper; **Fluorinated Ethylene Propylene (masterbatch)**; Polymethyl methacrylate (PMMA); Stainless Steel; Polyoxymethylene Copolymer (POM); Styrene-butadiene polymer, hydrogenated; Poly(methyl methacrylate/butyl acrylate/styrene) (PMMA/BA/S); Styrene/butadiene copolymer; Distillates; Polypropylene; Calcium carbonate; Polycarbonate; EVA Copolymer; Methyl methacrylate (MMA); Polyphenylene Oxide; Brass; Tin, Organic

**Living Building Challenge Criteria:** Compliant

**I-13 Red List:**

LBC Red List Free      % Disclosed: 100% at 100ppm  
 LBC Red List Approved      VOC Content: Not Applicable  
 Declared

**I-10 Interior Performance:** Not Applicable  
**I-14 Responsible Sourcing:** Not Applicable

VDE-0001  
 EXP. 01 FEB 2026  
 Original Issue Date: 2018

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY  
 INTERNATIONAL LIVING FUTURE INSTITUTE™ [living-future.org/declare](http://living-future.org/declare)

Click here to learn more: [International Living Future Institute](http://International Living Future Institute)

### BAA X BABA

#### Buy American Act / Build America & Buy America Act Compliance

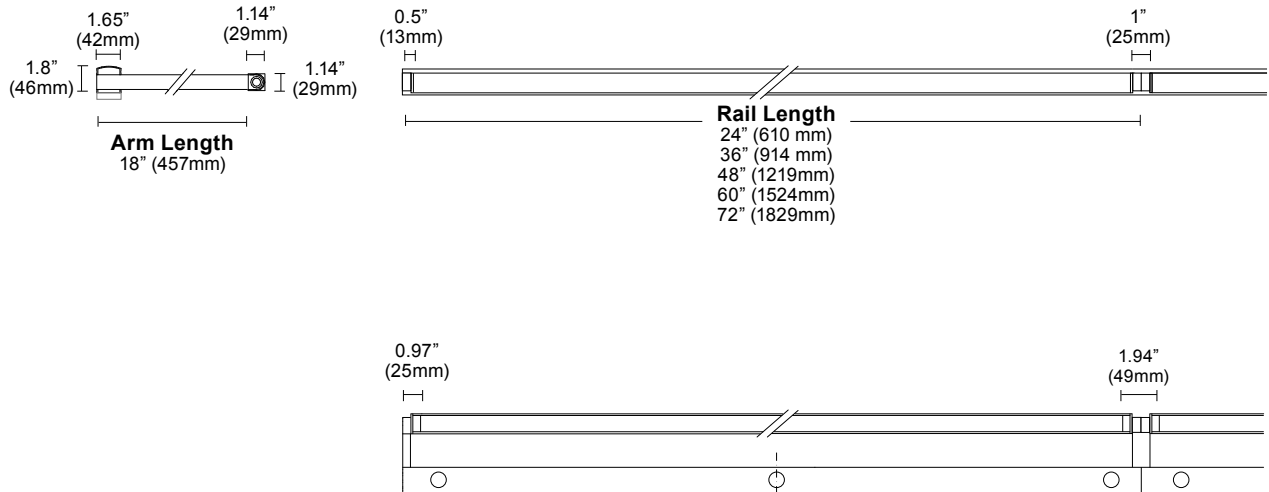
Vode is dedicated to supporting domestic manufacturing and ensuring compliance with BAA and BABA requirements.

Given the complexity of our products, we recommend reaching out to [vodecares@vode.com](mailto:vodecares@vode.com) for confirmation regarding compliance for your specific project.



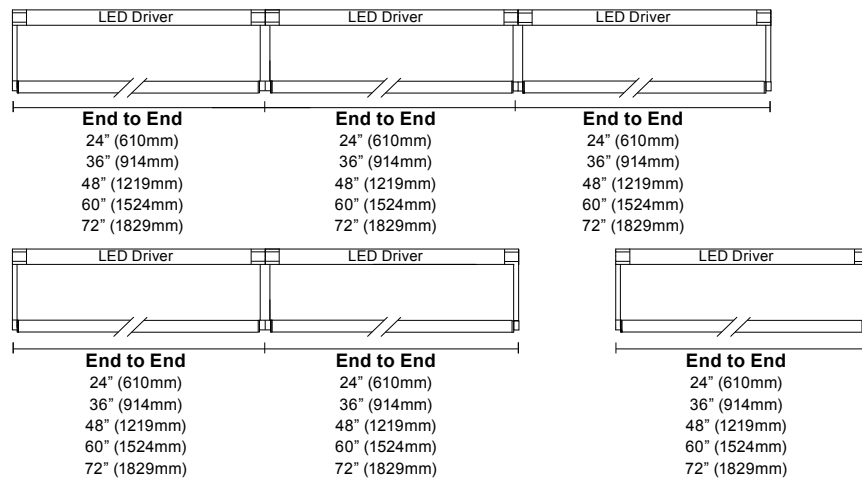
Click here to learn more: [US Department of Commerce](http://US Department of Commerce)

## Dimensions

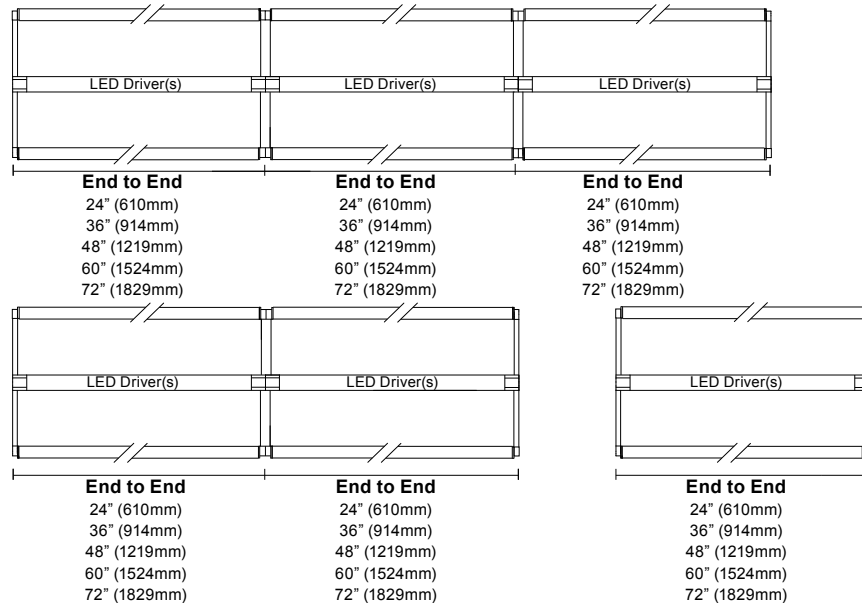


## Layout

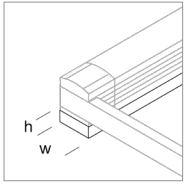
### Single Sided (K1)



### Double Sided (K2)



## Mounting Options



Vode Strut  
 (provided with systems  
 with multiple rail sections)  
 h 0.8" (20mm)  
 w 1.61" (41mm)

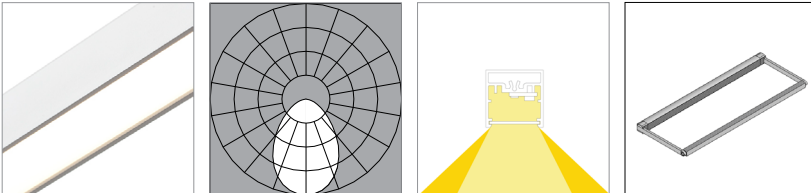
## Power and Controls

Power Type	Class 2 (<60V output) constant current driver.
Dimming Controls	Dimming (0.1%, 1%), 0-10V, DALI, DMX, Hi-lume 1% are available. See <a href="#">Power Guide</a> for details.
Input Voltage	120V - 277V, 50/60hz.
Power Location	Integral power. See <a href="#">Power Guide</a> for details.

## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

Diffuse (1)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

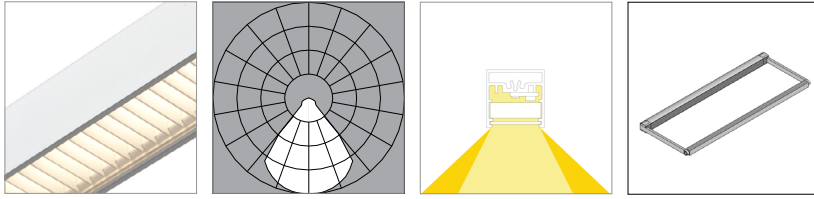
	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>				
Efficacy - Lumens per Watt	81	83	85	86
Lumens per foot (305mm)	277	286	292	294
Watts per foot (305mm)	3.5	3.5	3.5	3.5
<b>Standard Output (SO)</b>				
Efficacy - Lumens per Watt	93	96	98	99
Lumens per foot (305mm)	554	571	583	589
Watts per foot (305mm)	6.0	6.0	6.0	6.0
<b>High Output (HO)</b>				
Efficacy - Lumens per Watt	86	89	91	92
Lumens per foot (305mm)	1052	1086	1108	1119
Watts per foot (305mm)	12.3	12.3	12.3	12.3



## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

### White Baffle (WB)



L80 >60,000 hours

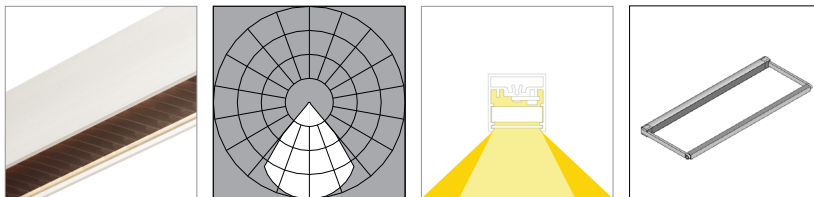
**90 CRI (90min., 96 avg.)**

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	56	58	59	60
Lumens per foot (305mm)	192	199	203	205
Watts per foot (305mm)	3.5	3.5	3.5	3.5

<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	68	69
Lumens per foot (305mm)	385	397	405	409
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Lumens per foot (305mm)	731	755	770	778
Watts per foot (305mm)	12.3	12.3	12.3	12.3

### Black Baffle (BB)



L80 >60,000 hours

**90 CRI (90min., 96 avg.)**

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	31	31	32	32
Lumens per foot (305mm)	104	107	109	110
Watts per foot (305mm)	3.5	3.5	3.5	3.5

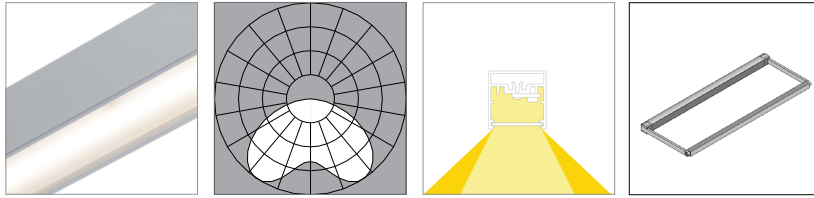
<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	35	36	37	37
Lumens per foot (305mm)	207	214	218	220
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	33	34	34	35
Lumens per foot (305mm)	394	406	415	419
Watts per foot (305mm)	12.3	12.3	12.3	12.3

## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

### 120° Batwing (G1)



L80 >60,000 hours

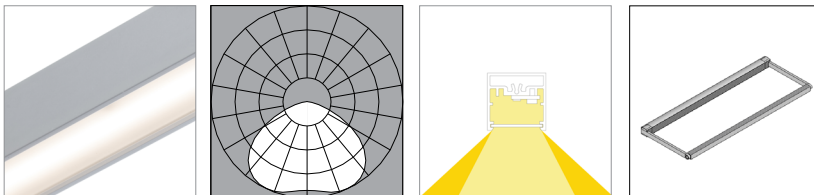
**90 CRI (90min., 96 avg.)**

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	100
Lumens per foot (305mm)	323	333	340	344
Watts per foot (305mm)	3.5	3.5	3.5	3.5

<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	111	113	114
Lumens per foot (305mm)	640	661	674	681
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	104	106	107
Lumens per foot (305mm)	1226	1265	1291	1303
Watts per foot (305mm)	12.3	12.3	12.3	12.3

### 120° FlyWing (G2)



L80 >60,000 hours

**90 CRI (90min., 96 avg.)**

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	101
Lumens per foot (305mm)	328	338	345	349
Watts per foot (305mm)	3.5	3.5	3.5	3.5

<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	114	116	117
Lumens per foot (305mm)	656	676	690	697
Watts per foot (305mm)	6.0	6.0	6.0	6.0

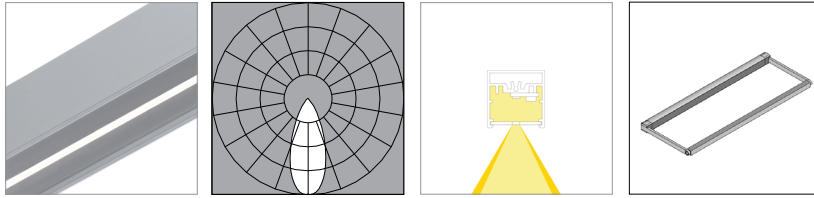
<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	108
Lumens per foot (305mm)	1246	1285	1311	1325
Watts per foot (305mm)	12.3	12.3	12.3	12.3



## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

### 40° Symmetric (S1)



L80 >60,000 hours

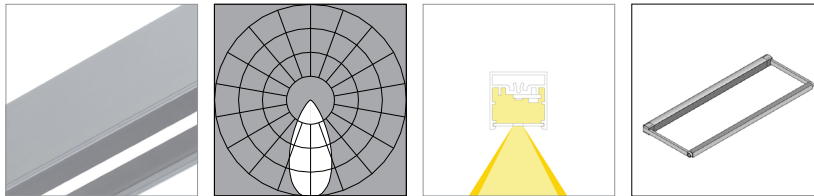
**90 CRI (90min., 96 avg.)**

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	40	41	42	42
Lumens per foot (305mm)	136	140	143	145
Watts per foot (305mm)	3.5	3.5	3.5	3.5

<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	46	47	48	49
Lumens per foot (305mm)	272	281	286	289
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	43	44	45	45
Lumens per foot (305mm)	517	533	544	549
Watts per foot (305mm)	12.3	12.3	12.3	12.3

### 60° Symmetric (S2)



L80 >60,000 hours

**90 CRI (90min., 96 avg.)**

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	54	55	56	57
Lumens per foot (305mm)	183	189	193	195
Watts per foot (305mm)	3.5	3.5	3.5	3.5

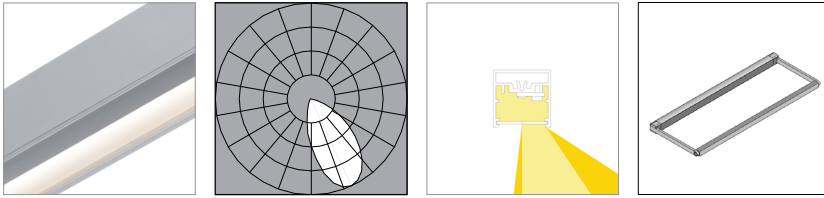
<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	62	64	65	66
Lumens per foot (305mm)	367	379	386	390
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	61
Lumens per foot (305mm)	697	719	734	741
Watts per foot (305mm)	12.3	12.3	12.3	12.3

## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

### 85° Asymmetric (A1)



L80 >60,000 hours

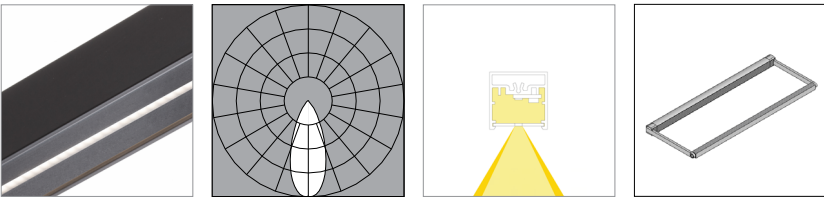
#### 90 CRI (90min., 96 avg.)

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	56	58	58
Lumens per foot (305mm)	187	193	197	199
Watts per foot (305mm)	3.5	3.5	3.5	3.5

<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	63	65	67	67
Lumens per foot (305mm)	375	387	395	398
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	59	60	62	62
Lumens per foot (305mm)	712	735	750	757
Watts per foot (305mm)	12.3	12.3	12.3	12.3

### 40° Symmetric, black finish (S1-BL)



L80 >60,000 hours

#### 90 CRI (90min., 96 avg.)

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	29	30	31	31
Lumens per foot (305mm)	99	102	104	105
Watts per foot (305mm)	3.5	3.5	3.5	3.5

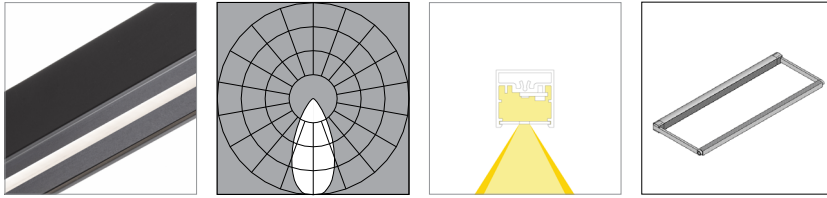
<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	35	36
Lumens per foot (305mm)	197	204	208	210
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	31	32	33	33
Lumens per foot (305mm)	375	387	395	399
Watts per foot (305mm)	12.3	12.3	12.3	12.3

## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

60° Symmetric, black finish (S2-BL)



L80 >60,000 hours

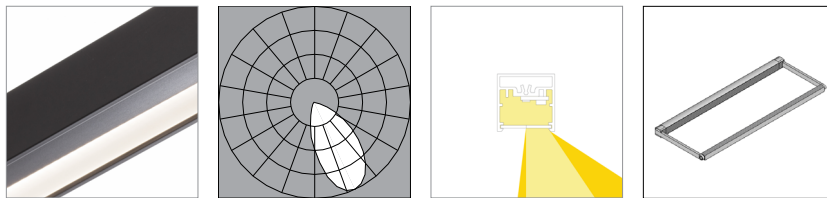
90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	35	36
Lumens per foot (305mm)	115	118	121	122
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	39	40	41	41
Lumens per foot (305mm)	230	237	242	244
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	36	37	38	38
Lumens per foot (305mm)	436	450	459	464
Watts per foot (305mm)	12.3	12.3	12.3	12.3

85° Asymmetric, black finish (A1-BL)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	44	46	47	47
Lumens per foot (305mm)	152	157	160	162
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	51	53	54	55
Lumens per foot (305mm)	304	314	320	323
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	48	49	50	51
Lumens per foot (305mm)	578	596	608	614
Watts per foot (305mm)	12.3	12.3	12.3	12.3

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