

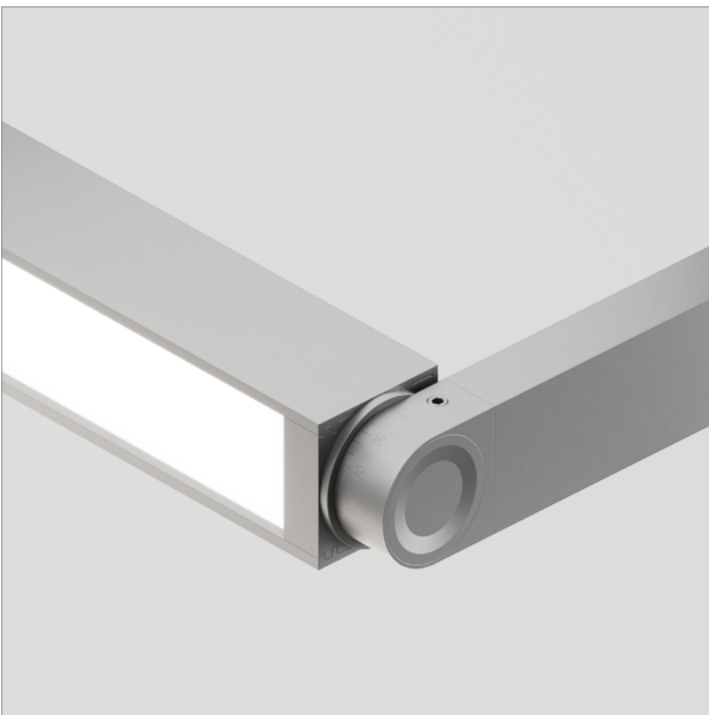


Spec Guide

# 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

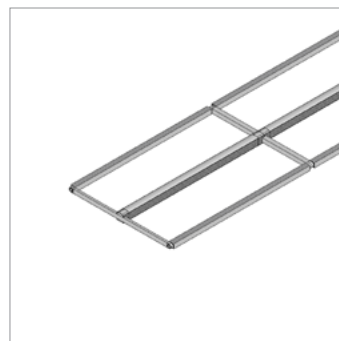
Output up to 1484 lm/ft (HO), 131 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

### High Performance Optics

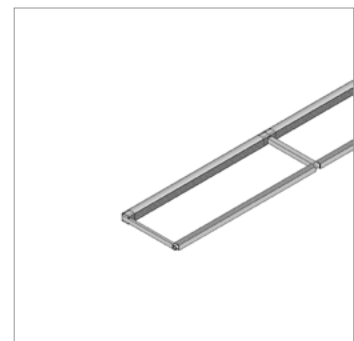
Break through Batwing lens designed for excellent fixture to fixture spacing.

### 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.

## Declare Label

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

See [International Living Future Institute](https://www.livingfuture.org) website for details.



# Declare.

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## 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:**

Anodized Aluminum (6063-T5 Alloy); Steel; Small Electrical Component (RoHS)<sup>1</sup>; Copper; **Fluorinated Ethylene Propylene (masterbatch)**<sup>2</sup>; 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

<sup>1</sup>LBC Temp Exception RL-002 - Small Electrical Components  
<sup>2</sup>LBC Temp Exception RL-023 - Wire Sheathing Subject to NFPA 90A, NFPA 262, UL® 910

**Living Building Challenge Criteria:** Compliant

**I-13 Red List:**

<input type="checkbox"/> LBC Red List Free	% Disclosed: 100% at 100ppm
<input checked="" type="checkbox"/> LBC Red List Approved	VOC Content: Not Applicable
<input type="checkbox"/> Declared	

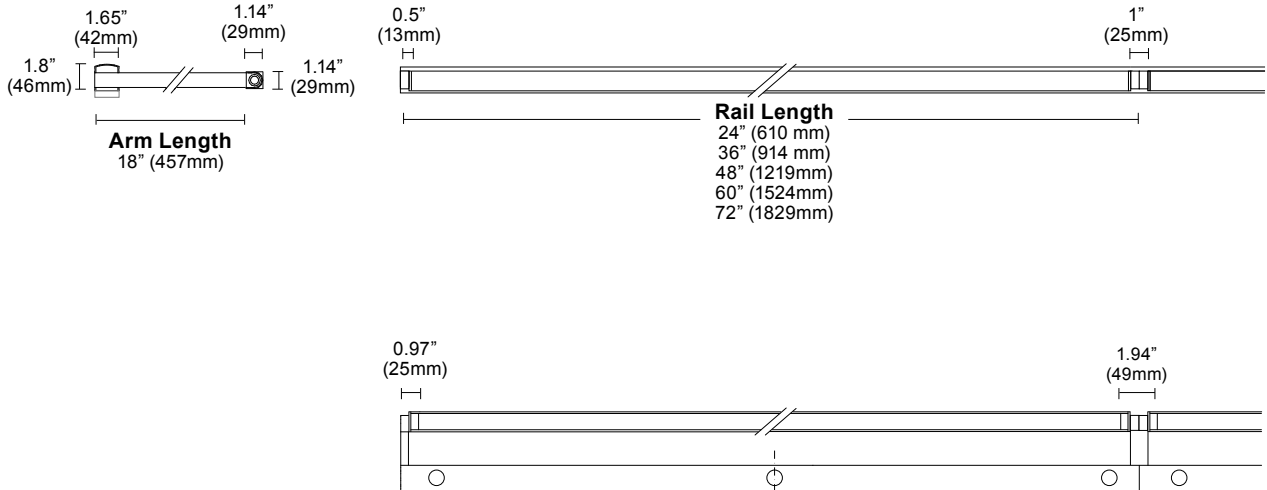
**I-10 Interior Performance:** Not Applicable  
**I-14 Responsible Sourcing:** Not Applicable

VDE-0001  
 EXP. 01 JAN 2025  
 Original Issue Date: 2018

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

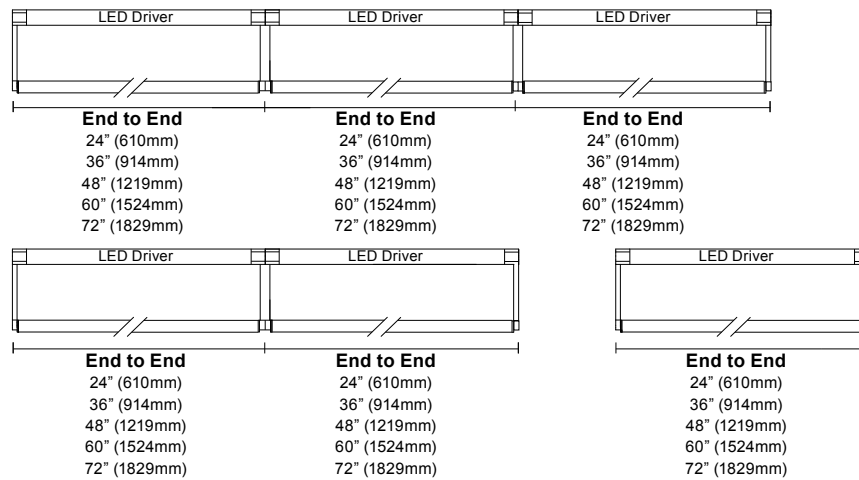


## Dimensions

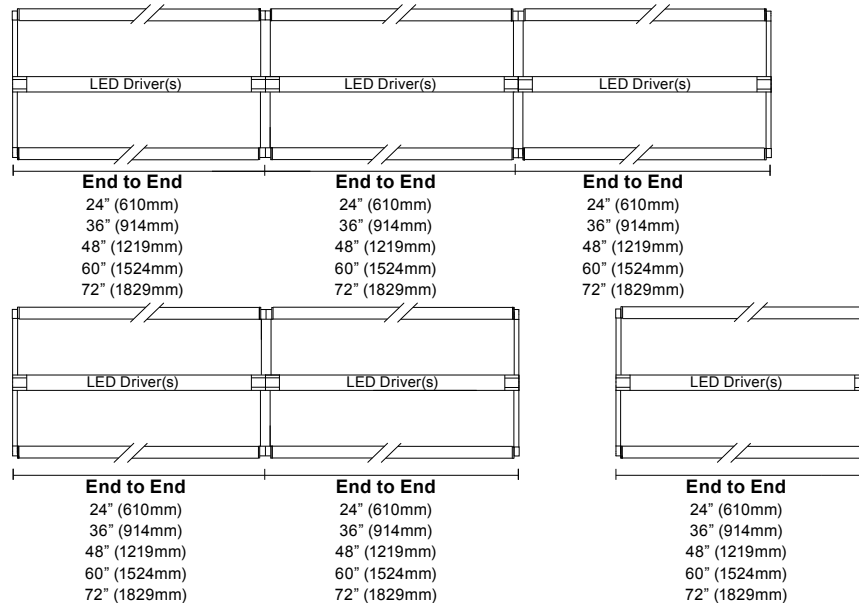


## Layout

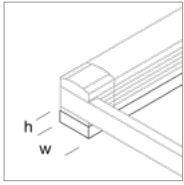
### Single Sided (K1)



### Double Sided (K2)



## Mounting Options



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

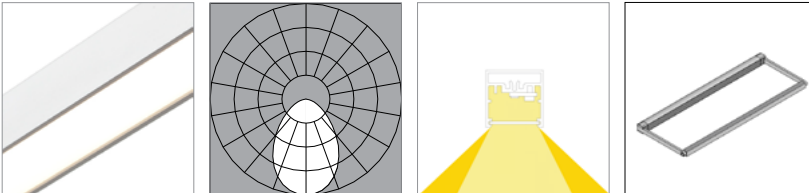
## Power and Controls

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

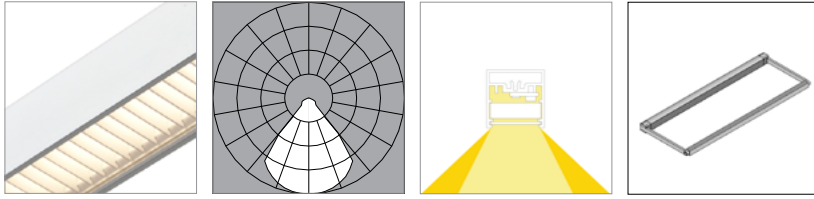
90 CRI (90min., 96 avg.)

	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>				
Efficacy - Lumens per Watt	66	68	69	71
Lumens per foot (305mm)	244	252	257	262
Watts per foot (305mm)	3.8	3.8	3.8	3.8
<b>Standard Output (SO)</b>				
Efficacy - Lumens per Watt	82	84	86	88
Lumens per foot (305mm)	489	504	515	525
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	-	-	96	-
<b>High Output (HO)</b>				
Efficacy - Lumens per Watt	76	78	80	82
Lumens per foot (305mm)	929	958	978	997
Watts per foot (305mm)	12.4	12.4	12.4	12.4

## 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	44	47	47	48
Lumens per foot (305mm)	164	173	173	177
Watts per foot (305mm)	3.8	3.8	3.8	3.8

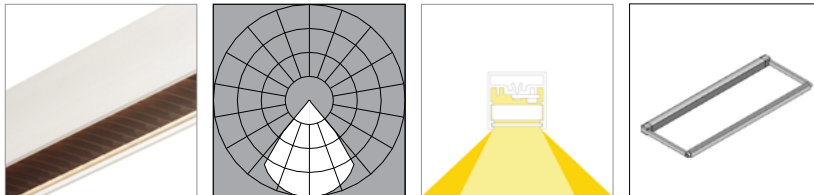
### Standard Output (SO)

Efficacy - Lumens per Watt	55	57	58	59
Lumens per foot (305mm)	329	339	346	353
Watts per foot (305mm)	6.1	6.1	6.1	6.1

### High Output (HO)

Efficacy - Lumens per Watt	51	53	54	55
Lumens per foot (305mm)	625	644	658	671
Watts per foot (305mm)	12.4	12.4	12.4	12.4

### 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	25	26	26	26
Lumens per foot (305mm)	90	95	95	97
Watts per foot (305mm)	3.8	3.8	3.8	3.8

### Standard Output (SO)

Efficacy - Lumens per Watt	30	31	32	33
Lumens per foot (305mm)	180	186	190	194
Watts per foot (305mm)	6.1	6.1	6.1	6.1

### High Output (HO)

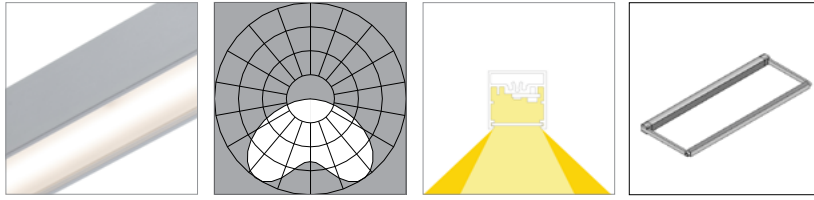
Efficacy - Lumens per Watt	28	29	30	30
Lumens per foot (305mm)	343	353	361	368
Watts per foot (305mm)	12.4	12.4	12.4	12.4



## 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	84	87	89	91
Lumens per foot (305mm)	314	323	330	337
Watts per foot (305mm)	3.8	3.8	3.8	3.8

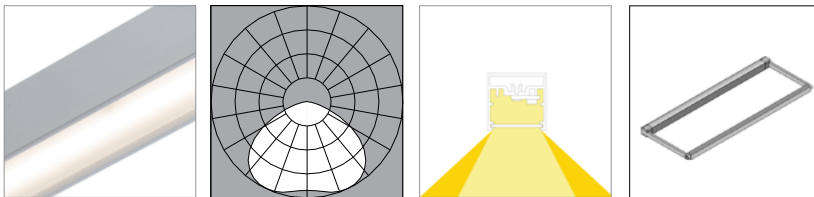
### Standard Output (SO)

Efficacy - Lumens per Watt	105	109	111	113
Lumens per foot (305mm)	627	647	660	673
Watts per foot (305mm)	6.1	6.1	6.1	6.1

### High Output (HO)

Efficacy - Lumens per Watt	97	100	102	104
Lumens per foot (305mm)	1192	1229	1254	1279
Watts per foot (305mm)	12.4	12.4	12.4	12.4

### 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	78	80	82	83
Lumens per foot (305mm)	289	298	304	310
Watts per foot (305mm)	3.8	3.8	3.8	3.8

### Standard Output (SO)

Efficacy - Lumens per Watt	96	99	101	103
Lumens per foot (305mm)	578	596	608	620
Watts per foot (305mm)	6.1	6.1	6.1	6.1

### High Output (HO)

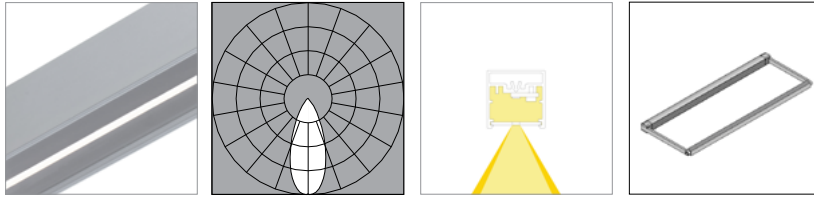
Efficacy - Lumens per Watt	90	93	94	96
Lumens per foot (305mm)	1098	1132	1155	1178
Watts per foot (305mm)	12.4	12.4	12.4	12.4



## 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	36	37	38	39
Lumens per foot (305mm)	133	137	140	142
Watts per foot (305mm)	3.8	3.8	3.8	3.8

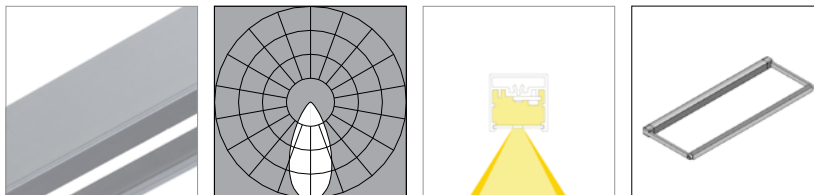
#### **Standard Output (SO)**

Efficacy - Lumens per Watt	45	46	47	48
Lumens per foot (305mm)	265	273	279	285
Watts per foot (305mm)	6.1	6.1	6.1	6.1

#### **High Output (HO)**

Efficacy - Lumens per Watt	41	43	44	44
Lumens per foot (305mm)	504	520	530	541
Watts per foot (305mm)	12.4	12.4	12.4	12.4

### 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	45	46	47	48
Lumens per foot (305mm)	165	170	173	177
Watts per foot (305mm)	3.8	3.8	3.8	3.8

#### **Standard Output (SO)**

Efficacy - Lumens per Watt	55	57	58	59
Lumens per foot (305mm)	329	340	347	354
Watts per foot (305mm)	6.1	6.1	6.1	6.1

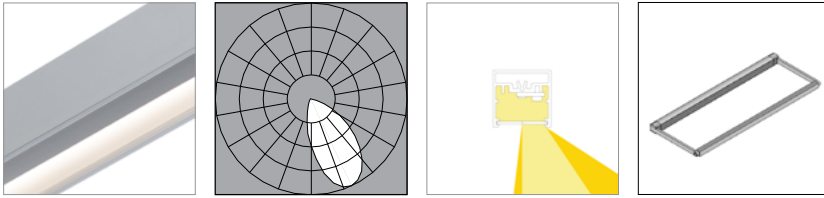
#### **High Output (HO)**

Efficacy - Lumens per Watt	51	53	54	55
Lumens per foot (305mm)	626	646	659	672
Watts per foot (305mm)	12.4	12.4	12.4	12.4

## 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	57	59	60	61
Lumens per foot (305mm)	210	217	221	226
Watts per foot (305mm)	3.8	3.8	3.8	3.8

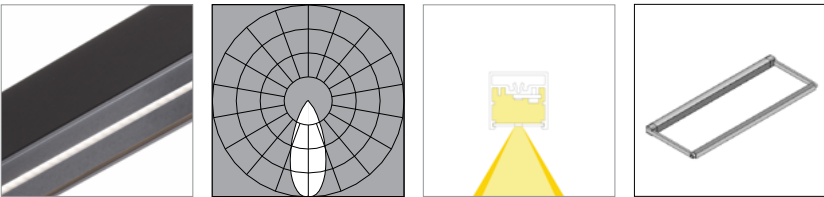
### Standard Output (SO)

Efficacy - Lumens per Watt	65	67	68	69
Lumens per foot (305mm)	420	434	443	451
Watts per foot (305mm)	-	-	-	-

### High Output (HO)

Efficacy - Lumens per Watt	65	67	69	70
Lumens per foot (305mm)	799	824	841	858
Watts per foot (305mm)	12.4	12.4	12.4	12.4

### 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	28	29	29	30
Lumens per foot (305mm)	101	104	106	108
Watts per foot (305mm)	3.8	3.8	3.8	3.8

### Standard Output (SO)

Efficacy - Lumens per Watt	34	35	36	37
Lumens per foot (305mm)	202	208	213	217
Watts per foot (305mm)	6.1	6.1	6.1	6.1

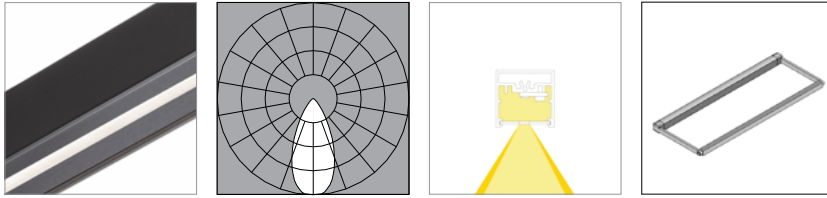
### High Output (HO)

Efficacy - Lumens per Watt	32	33	33	34
Lumens per foot (305mm)	384	396	404	412
Watts per foot (305mm)	12.4	12.4	12.4	12.4

## 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.)			
	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>				
Efficacy - Lumens per Watt	33	34	35	36
Lumens per foot (305mm)	123	127	129	132
Watts per foot (305mm)	3.8	3.8	3.8	3.8

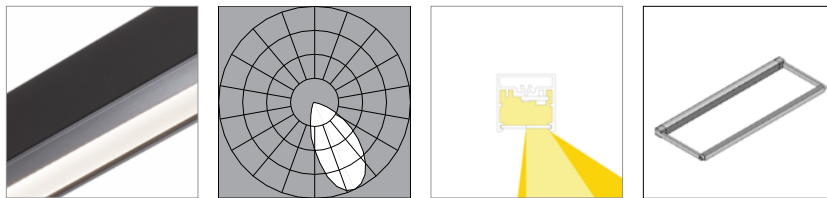
### Standard Output (SO)

Efficacy - Lumens per Watt	41	43	43	44
Lumens per foot (305mm)	245	253	258	263
Watts per foot (305mm)	6.1	6.1	6.1	6.1

### High Output (HO)

Efficacy - Lumens per Watt	38	40	40	41
Lumens per foot (305mm)	446	481	491	501
Watts per foot (305mm)	12.4	12.4	12.4	12.4

### 85° Asymmetric, black finish (A1-BL)



L80 >60,000 hours

	90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>				
Efficacy - Lumens per Watt	30	31	32	32
Lumens per foot (305mm)	110	114	116	118
Watts per foot (305mm)	3.8	3.8	3.8	3.8

### Standard Output (SO)

Efficacy - Lumens per Watt	37	38	39	40
Lumens per foot (305mm)	220	227	232	236
Watts per foot (305mm)	6.1	6.1	6.1	6.1

### High Output (HO)

Efficacy - Lumens per Watt	34	36	36	37
Lumens per foot (305mm)	418	431	440	449
Watts per foot (305mm)	12.4	12.4	12.4	12.4

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