



Spec Guide

BoxRail | Table Arm | 107



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



BoxRail: direct or indirect, 370° rotation.

Benefits & Features

Minimal Profile

Double Rail performance in a small 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.

Adaptive PowerCenter

Full range dimming power for all protocols.

Better Optics & Beam Control Options

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



Arm Anchor®



Double Rail with Tee, Arm Anchor

Build Your Specification

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

▲ Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.

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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)
Specify mounting and harness length code example: 2T25, 2T50 ...etc.	AE 0-10v, 1.0% Dimming AT 0-10v, 0.1% Dimming AD DALI, 0.1% Dimming AX DMX, 100-0% Dimming AH Hi-lume 1% EcoSystem, LDE ¹ AH2 ELV 1% 2-wire (Forward and Reverse Phase) ⁴		
Mounting Option Wire Harness	Optimized Power Add 'O' to power type example: AEO, ATO...etc. ² VodeNODE Add 'N' to power type for Flexible 1 to 1 Power Add 'ON' to power type for Optimized Power example: AEN, ATN, AEON, ADON...etc. ³ ZZ Other (please specify) See Power Guide for driver features & limitations.		
2T Arm Anchor 10 10' (3.048m) Wire Harness 25 25' (7.62m) Wire Harness 50 50' (15.24m) Wire Harness 75 75' (22.86m) Wire Harness 100 100' (30.48m) Wire Harness			

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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) See IES Files page for details. See Power Guide for driver features & limitations.	90+ CRI 27 2700K 30 3000K 35 3500K 40 4000K ZZ Tunable White Available See Guide for details.	Zipper Board (Z) 1 Diffuse WB White Baffle BB Black Baffle G1 120° Batwing G2 120° FlyWing S1 40° Symmetric S2 60° Symmetric A1 85° Asymmetric	0 None ZZ Sensor (specify requirements)

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Finish	Options
AL Clear Anodized	0 None
WH White Powder Coat	1 On/Off Switch ⁴
BL Black Anodized	9 9' 18/3 Cord and Plug
ZZ Other (please specify)	

NOTES & LIMITATIONS

- ¹ Arm lengths >48" not recommended.
- ² Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.
- ³ VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.
- ⁴ One On/Off Switch per LED Driver.

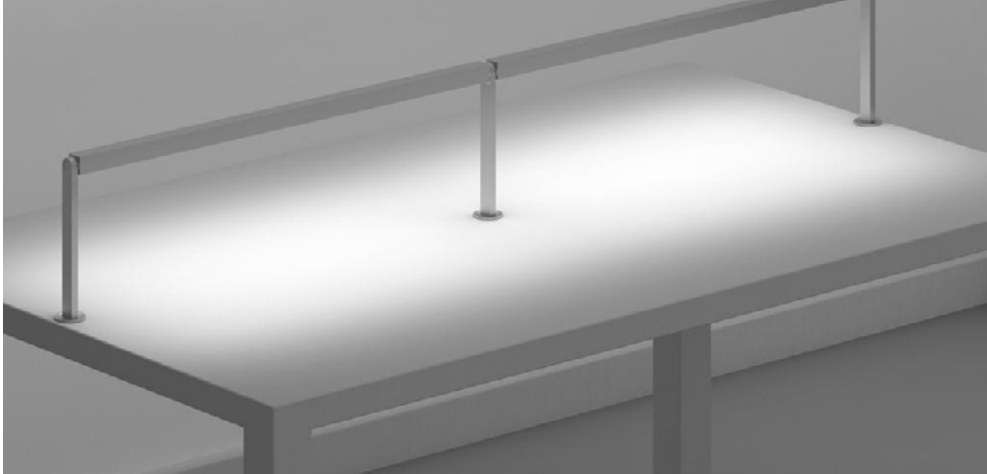
Standard 5 Year Limited Warranty. See details [here](#). Contact factory for options on Limited Warranties up to 20 years.

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.



Applications

Corporate, Educational, and Library



Fixture: rendering.




Library: rendering.

Declare Label

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

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



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)¹; Copper; **Fluorinated Ethylene Propylene (masterbatch)**²; 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

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

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 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)



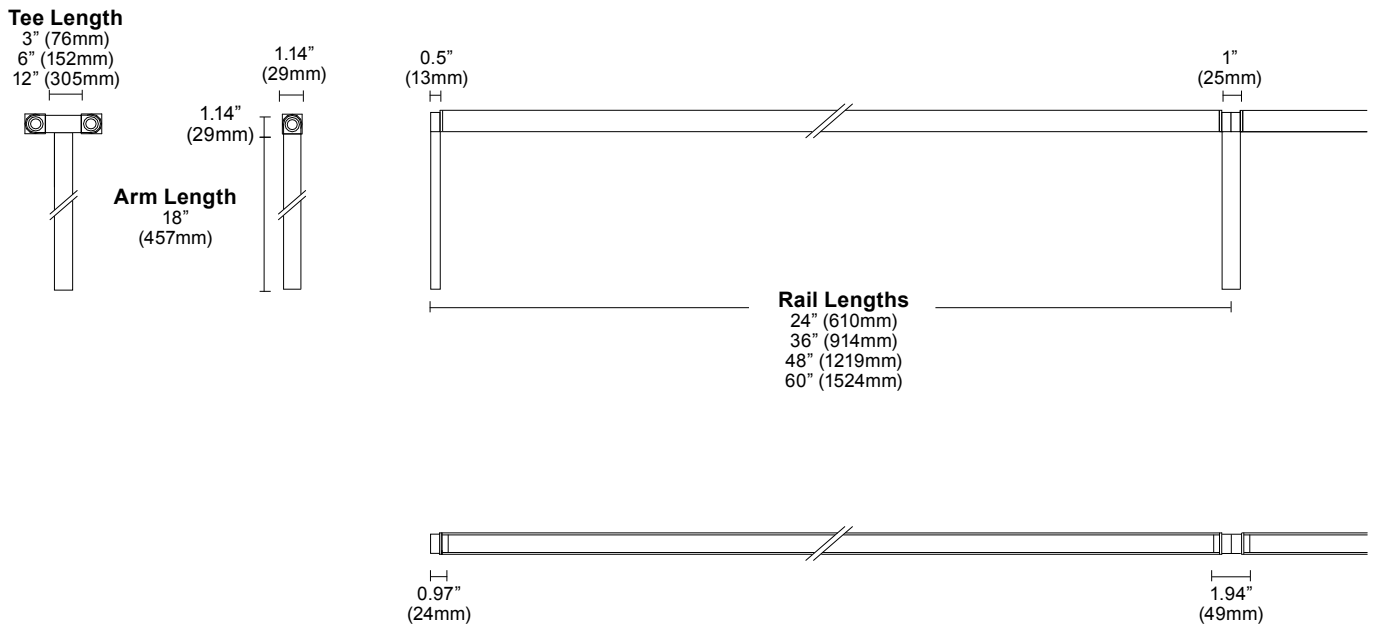
Structure

Rail Lengths	24" (610mm) - 60" (1524mm). Modified lengths available. See Rail Length Chart for more details.
Rail Dimensions	1.14" (29mm) x 1.14" (29mm) x length.
Construction	Extruded and machined 6063 aluminum.
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.
System Weight	1.04 lbs per ft (0.47kg per 305mm). Power supply and housing not included.

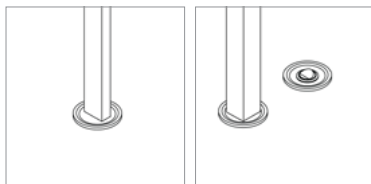
Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
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



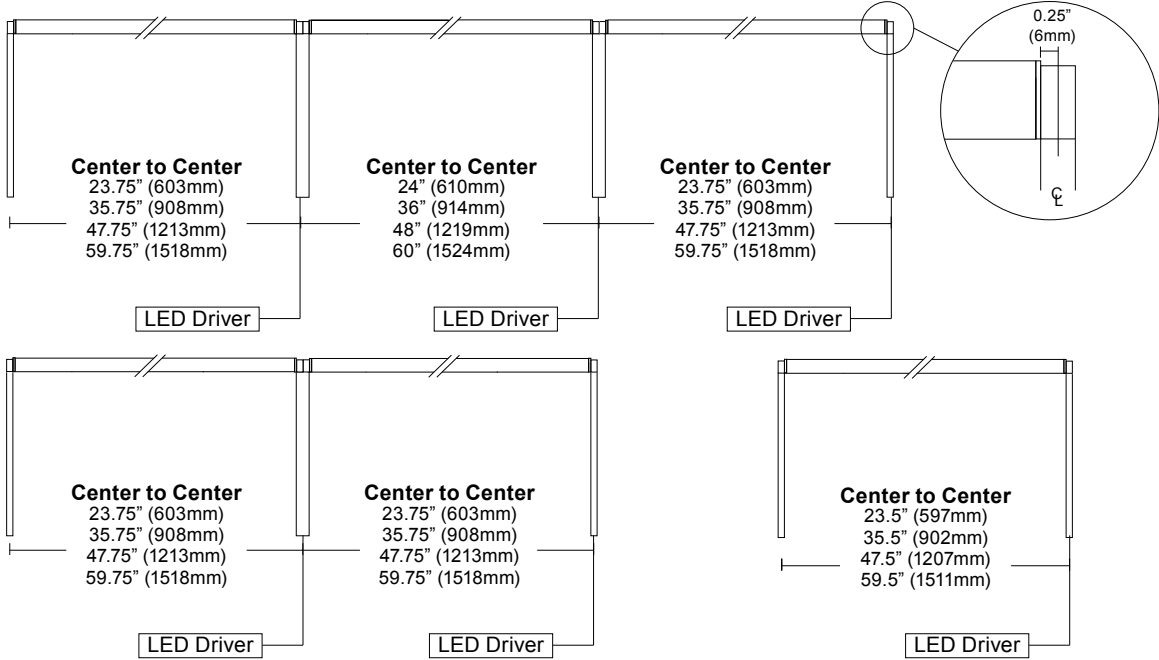
Mounting Options



Arm Anchor®
 h0.1" (3mm)
 Ø2" (51mm)

On Off Switch
 (optional)

Layout



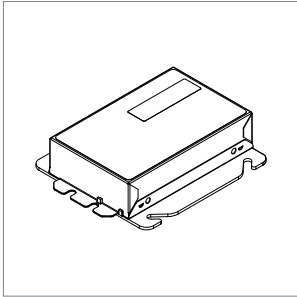
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) [See Guide](#) for details.

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 Power Guide 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 Power Guide for details.

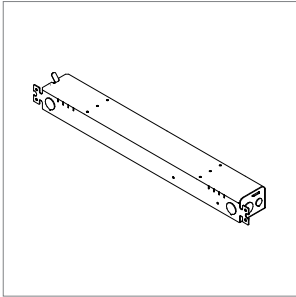
Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive.

Remote Brick Power Housing



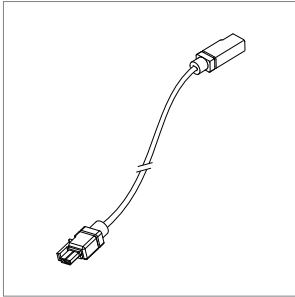
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

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.

Wire Harness

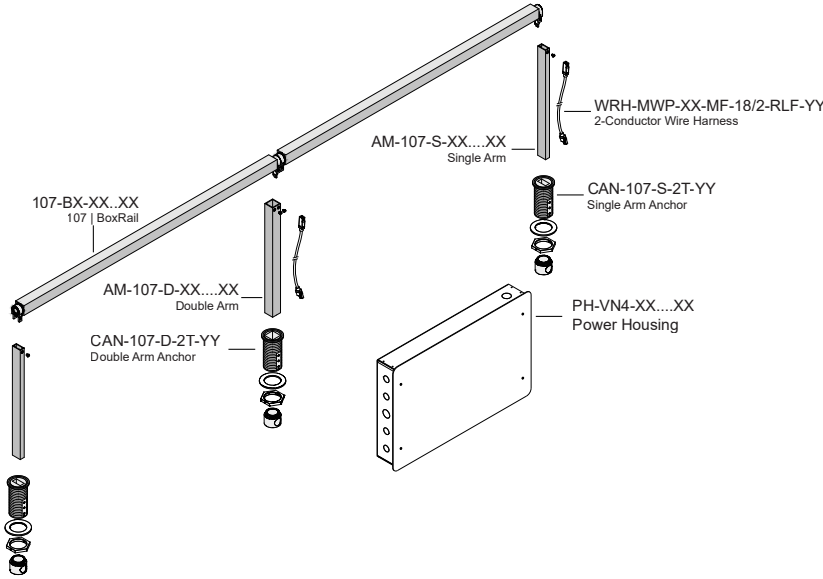


Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

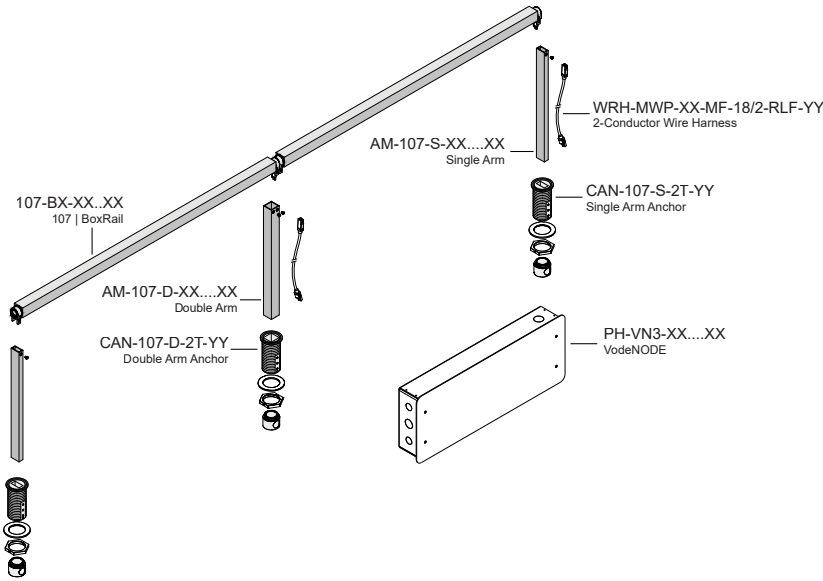
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

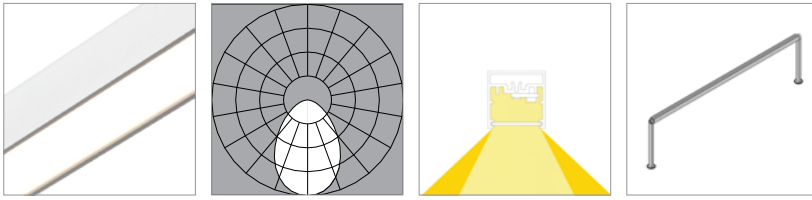


Note: Drawings not to scale, for reference only.

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.)

Low Output (LO)	2700K	3000K	3500K	4000K
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

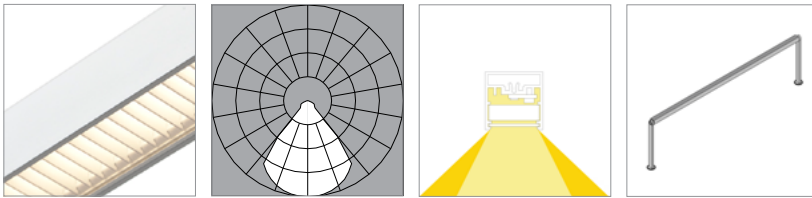
Standard Output (SO)

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

High Output (HO)

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

White Baffle (WB)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

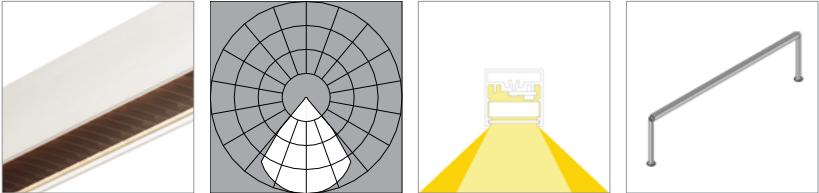
High Output (HO)

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

Performance | Zipper Board Optics

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

Black Baffle (BB)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

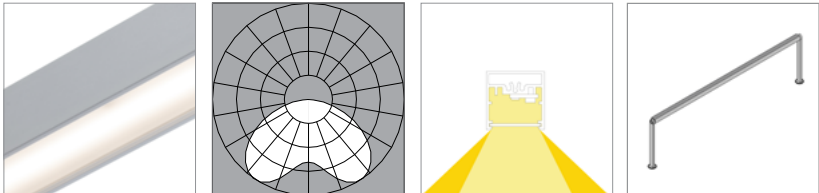
Standard Output (SO)

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

120° Batwing (G1)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

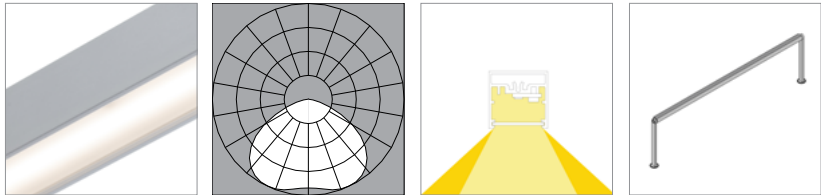
High Output (HO)

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

Performance | Zipper Board Optics

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

120° FlyWing (G2)



L80 >60,000 hours

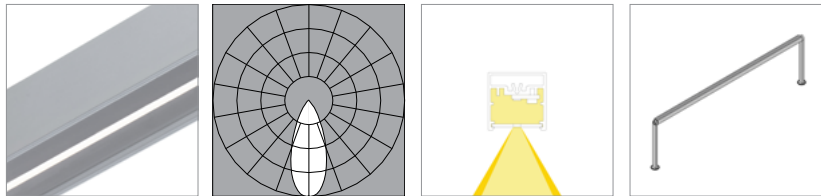
90 CRI (90min., 96 avg.)

Low Output (LO)	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)	2700K	3000K	3500K	4000K
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)	2700K	3000K	3500K	4000K
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

40° Symmetric (S1)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

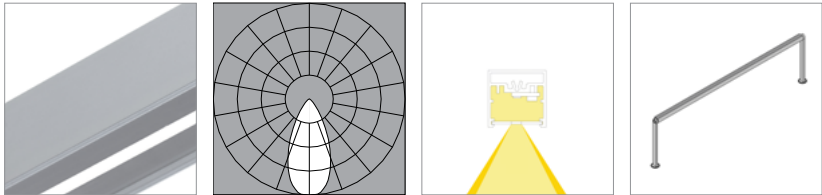
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	45	46	47	48
Lumens per foot (305mm)	265	273	279	285
Watts per foot (305mm)	6.1	6.1	6.1	6.1

High Output (HO)	2700K	3000K	3500K	4000K
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

Performance | Zipper Board Optics

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

60° Symmetric (S2)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

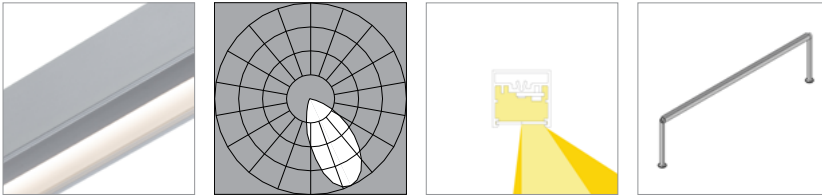
Standard Output (SO)

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

85° Asymmetric (A1)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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)	6.6	6.6	6.6	6.6

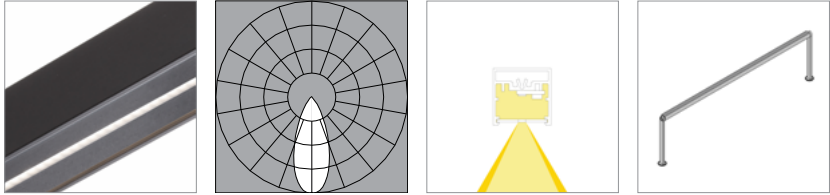
High Output (HO)

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

Performance | Zipper Board Optics

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

40° Symmetric, black finish (S1-BL)



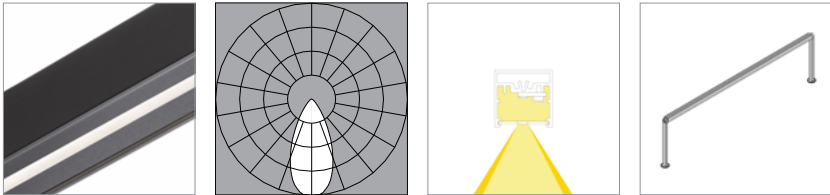
L80 >60,000 hours

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

60° Symmetric, black finish (S2-BL)



L80 >60,000 hours

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

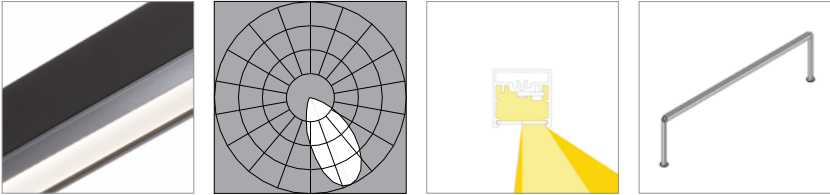
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	41	43	43	44
Lumens per foot (305mm)	245	253	258	263
Watts per foot (305mm)	6.1	6.1	6.1	6.1

High Output (HO)	2700K	3000K	3500K	4000K
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

Performance | Zipper Board Optics

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

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	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)	2700K	3000K	3500K	4000K
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)	2700K	3000K	3500K	4000K
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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