



Spec Guide

WingRail | Ceiling-Wall Arm | 107



Direct or indirect lighting for wall wash, grazing and ceiling wash applications.



WingRail: direct or indirect, 370° rotation.

Benefits & Features

Minimal Profile, Robust Design

Asymmetric profile, 1.14 in x 2.12 in.

Superior Light Quality & Performance

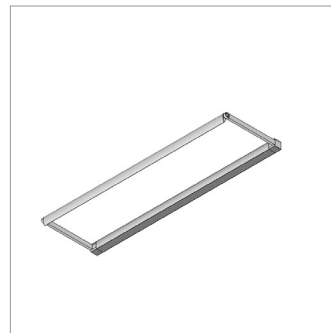
Output up to 1376 lm/ft (HO), 121 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

High Performance Optics

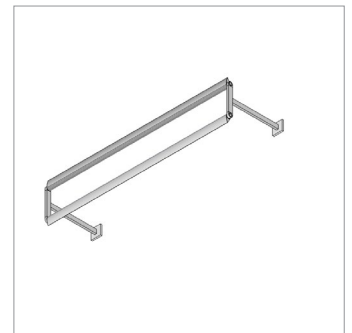
Break through Batwing lens designed for excellent fixture to fixture spacing.

Better Optics & Beam Control Options

Asymmetric distribution. White or black Baffle, EdgeSoft™ lens, or diffuse lens and narrow optics available. Directional control with 360° rotation, angle gauge, and lock.



Integral Power



Double Rail with Tee, Small Square Canopy

Build Your Specification

107-WG						▶▶
System & Rail Type		Single/Double Rail	System Length	Rail Length	Mounting	Arm Length
107-WG	WingRail	01 Single Rail	Specify overall system length in ft/in or M/mm. <i>Corner and Shapes Available</i> See Guide for details.	24 24" (610mm)	CA Ceiling Arm	1.25 1.25" arm (32mm) ¹
	03 Double Rail with 3" (76mm) Tee	36 36" (914mm)		WA Wall Arm	3 3" arm (76mm)	
	06 Double Rail with 6" (152mm) Tee	48 48" (1219mm)			6 6" arm (152mm)	
	12 Double Rail with 12" (305mm) Tee	60 60" (1524mm)			12 12" arm (305mm)	
	ZZ Other (please specify)	72 72" (1829mm)			18 18" arm (457mm) ²	
		ZZ Other rail length or layout (please specify)		24 24" arm (610mm) ²	ZZ Other (please specify) ²	
				See Rail Length Chart for more details.		
				⚠ Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.		

Power Location			Power Type		Voltage
Integral Power			Flexible 1 to 1 Power		1 120V
IP Integral Power			AE 0-10V, 1.0% Dimming		2 120V - 277V
Remote Power			AT 0-10V, 0.1% Dimming		X Not Yet Specified
Specify mounting and harness length code example: 2R25, 4R25...etc.			AD DALI, 0.1% Dimming		
Mounting Option			AX DMX, 100-0% Dimming		
			AH Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE ¹		
			AH2 ELV 1% 2-wire (Forward and Reverse Phase) ⁸		
Wire Harness			Optimized Power		
00 Zero Canopy			Add 'O' to power type example: AEO, ATO...etc. ³		
0B Zero Block			VodeNODE		
2R Small Round Canopy			Add 'N' to power type for Flexible 1 to 1 Power		
2S Small Square Canopy			Add 'ON' to power type for Optimized Power		
4R Large Round Canopy			example: AEN, ATN, AEON, ADON...etc. ⁴		
4S Large Square Canopy			ZZ Other (please specify)		
			See Power Guide for driver features & limitations.		

Emergency Power	LED Type	Lumen Output	Color Temperature	Optics	Sensors
0 No Emergency Power	Z Zipper Board	LO Low Output	90+ CRI	Zipper Board (Z)	0 None
ZZ Emergency Power (specify requirements)	B Button Board ⁵	SO Standard Output	27 2700K	WB White Baffle with EdgeSoft™	ZZ Sensor (specify requirements)
		HO High Output	30 3000K	BB Black Baffle with EdgeSoft	
		ZZ Other (please specify)	35 3500K	C1 Clear with EdgeSoft	
		See IES Files page for details.	40 4000K	D1 Diffuse	
		See Power Guide for driver features & limitations.	ZZ Tunable White Available	Button Board (B)	
			See Guide for details.	19 19° x 48° Oval	
				36 36° Medium	

Finish	Options
AL Clear Anodized	0 None
WH White Powder Coat	9 9' 18/3 Cord and Plug ⁶
BL Black Anodized	CPP Chicago Plenum Power ⁷
ZZ Other (please specify)	

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

NOTES & LIMITATIONS

¹ 1.25" arm length is not available with Zero Block (0B).

² For arms 18" and longer, wall-mounted systems include a cable tie-back.

³ Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.

⁴ VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.

⁵ Button Board (B) is not available with 90 CRI.

⁶ 9' 18/3 Cord and Plug only available with Remote Power (RP).

⁷ Chicago Plenum not applicable for wall arm mounting.

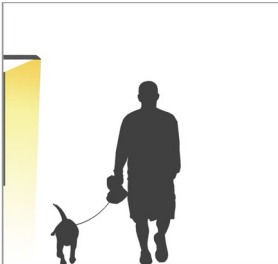
⁸ Lengths of 24" and shorter are not supported due to driver limitations. Daisy chaining multiple fixtures to achieve minimum load is permitted but may introduce installation complexity—consult factory for layout guidance.

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

Interior Corporate, Retail, and Display



HBO Studio, Seattle, WA



University of Pennsylvania, Philadelphia, PA

Sustainability & Certifications

DECLARE

International Living Future Institute (ILFI)

Red List
Approved

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



Declare.

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

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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Click here to learn more: [International Living Future Institute](https://living-future.org/declare)

TM65NA

CIBSE & ASHRAE on Embodied Carbon

Vode recognizes TM65NA as the highest standard for understanding the embodied carbon of our fixtures.

Developed with ASHRAE, it adapts CIBSE's TM65 for North America, ensuring accurate regional assessments. It must be used alongside TM65 and follows TM65LA's framework.

System: 107 | WingRail | Ceiling Wall Arm
Embodied Carbon (kg CO₂e): 47.02*

***Note:** Embodied Carbon, expressed in kilograms of CO₂e is calculated using a 48" fixture and includes the LED driver.



Click here to learn more [CIBSE, ASHRAE](#).

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 for confirmation regarding compliance for your specific project.



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

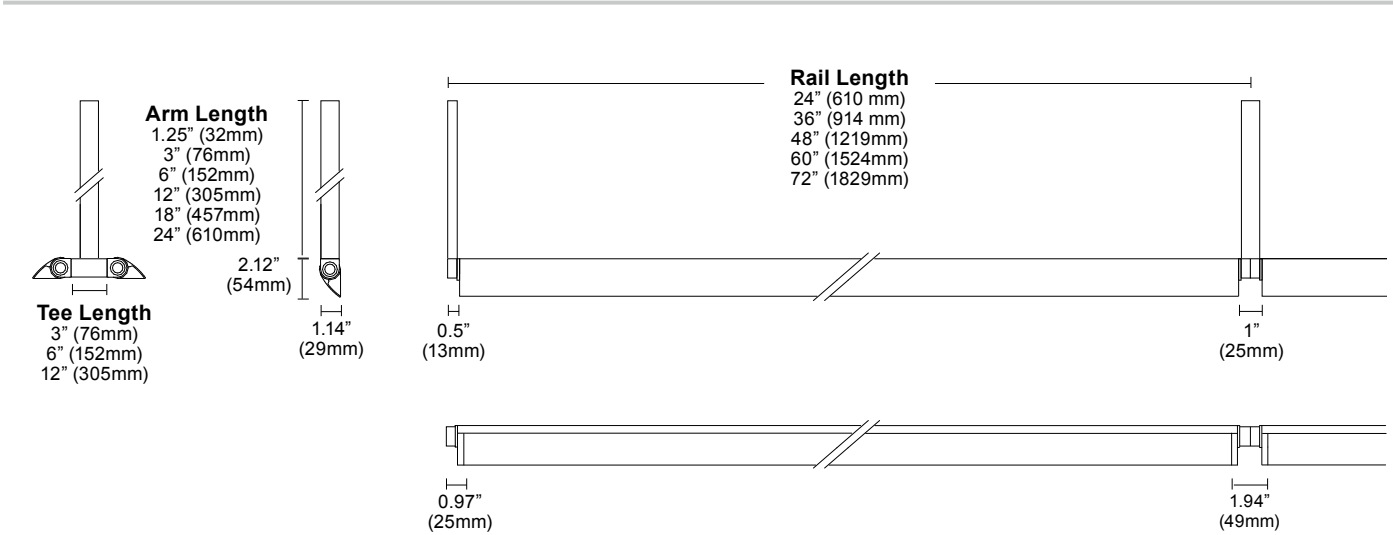
Structure

Rail Lengths	24" (610mm) - 72" (1829mm). Modified lengths available. See Rail Length Chart for more details.
Rail Dimensions	1.14" (29mm) x 2.12" (54mm) x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Ceiling or wall mount to jbox or driver housing.
Arm Length	1.25" (32mm) – 24" (610mm). Non-standard arm lengths available.
System Run Length	24" (610mm). 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.

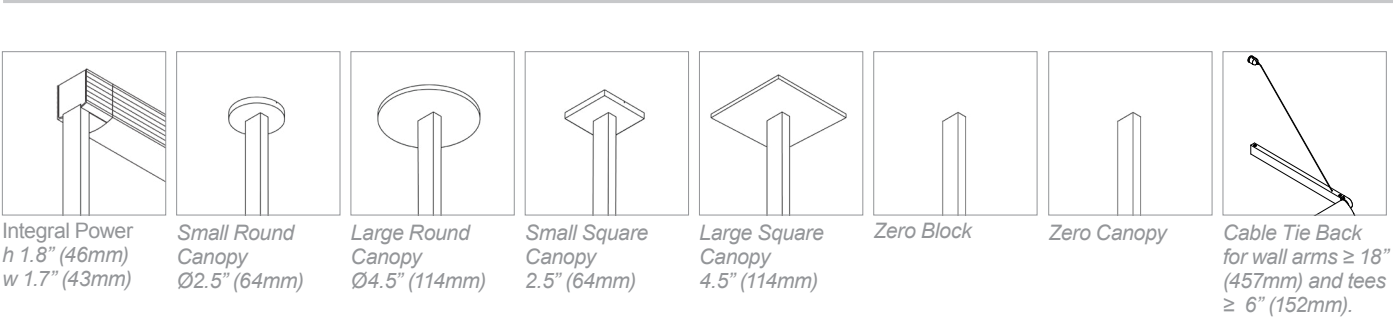
Materials

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.
Button Optics	High-impact cast acrylic glass (PMMA), polycarbonate (PC) holder.
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.

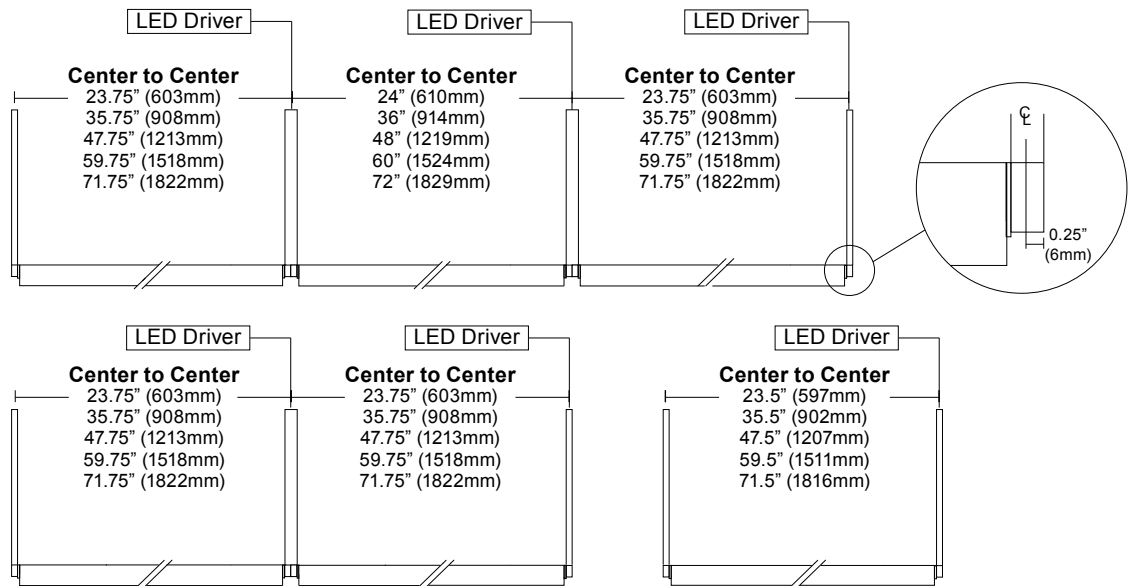
Dimensions



Mounting Options



Layout



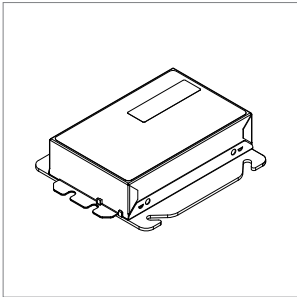
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) [See Guide](#) for details.

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	Integral or remote power. Maximum remote distance up to 100' (30.5m) depending on driver selection. See Power Guide for details.

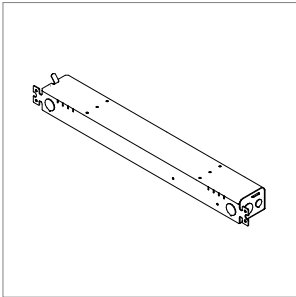
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the power supply into the lighting fixture or mounting.

Remote Brick Power Housing



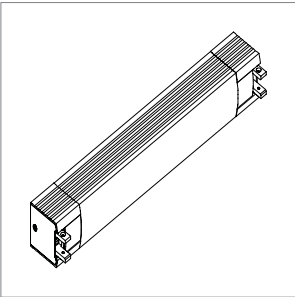
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



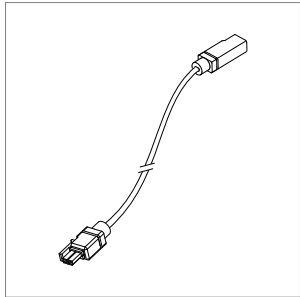
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

Integral Power



Houses integral power supply. Direct conduit feed recommended. Housing mounts to standard North America 4" j-box. Mounts to most surfaces. Blocking recommended at all arm junctions. See [Tech Sheet](#) for details.

Wire Harness

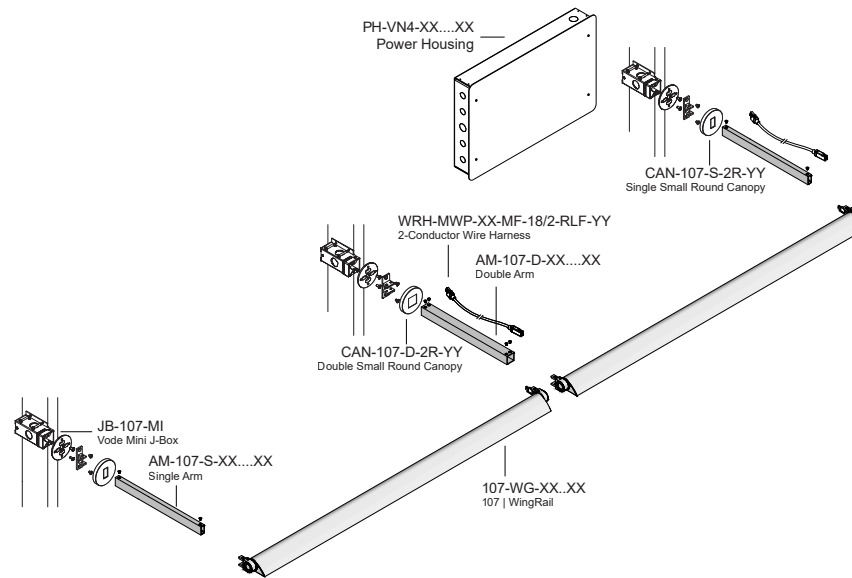


Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

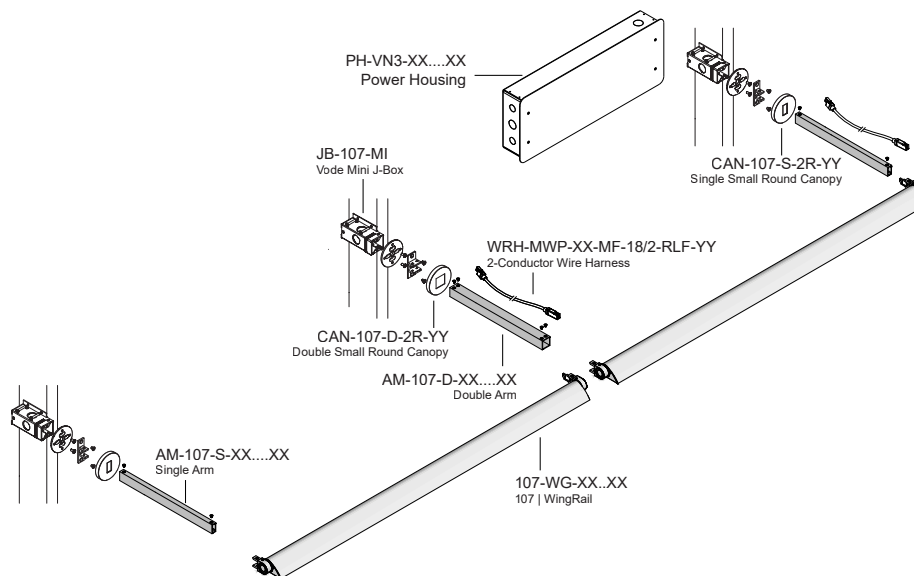
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

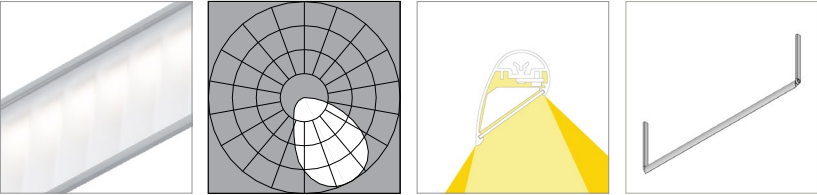


Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

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

White Baffle with EdgeSoft (WB)



L80 >60,000 hours

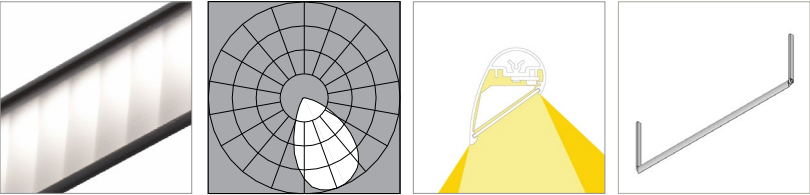
90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	83	84
Lumens per foot (305mm)	271	280	285	288
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	97
Lumens per foot (305mm)	542	560	571	577
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	89	90
Lumens per foot (305mm)	1031	1063	1085	1096
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Black Baffle with EdgeSoft (BB)



L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	50	51	52	53
Lumens per foot (305mm)	170	175	179	180
Watts per foot (305mm)	3.5	3.5	3.5	3.5

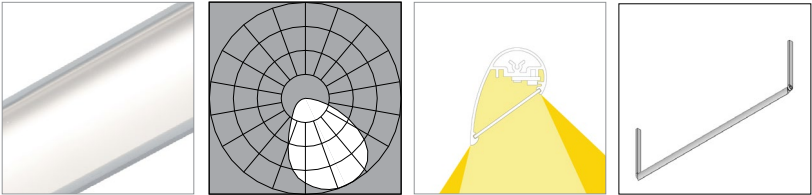
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	61
Lumens per foot (305mm)	339	350	357	361
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	53	55	56	56
Lumens per foot (305mm)	644	665	678	685
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).

Clear with EdgeSoft (C1)



L80 >60,000 hours

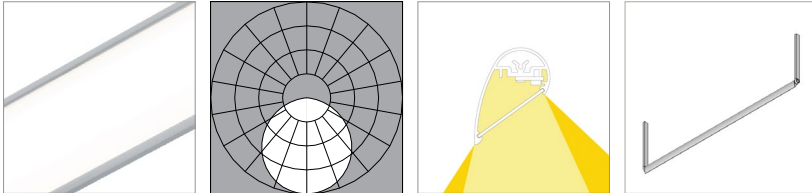
90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	101
Lumens per foot (305mm)	327	337	344	348
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	113	115	116
Lumens per foot (305mm)	654	675	688	695
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	108
Lumens per foot (305mm)	1243	1282	1308	1321
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Diffuse (D1)



L80 is >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	72	73
Lumens per foot (305mm)	234	241	246	248
Watts per foot (305mm)	3.5	3.5	3.5	3.5

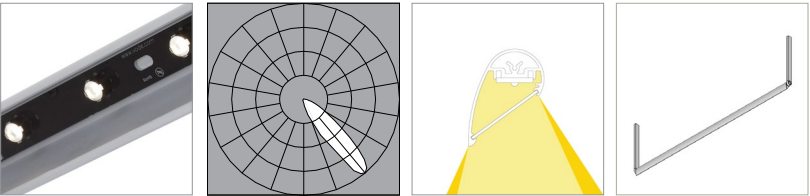
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	81	83	83
Lumens per foot (305mm)	467	482	492	497
Watts per foot (305mm)	6.0	6.0	6.0	6.0

High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	73	75	77	77
Lumens per foot (305mm)	888	916	935	944
Watts per foot (305mm)	12.3	12.3	12.3	12.3

Performance | Button Board Optics

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

19° x 48° Oval (19)

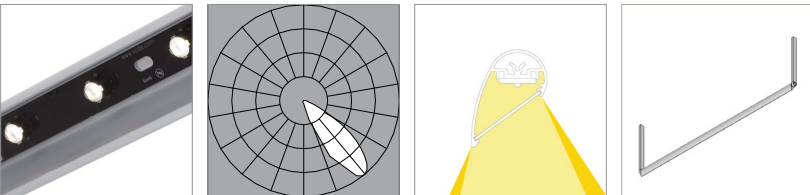


L80 >70,000 hours

Standard Output (SO)	80 CRI (80min., 84 avg.)			
	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	62	64
Lumens per foot (305mm)	420	438	456	474
Watts per foot (305mm)	7.3	7.3	7.3	7.3

High Output (HO)				
Efficacy - Lumens per Watt	50	52	55	57
Lumens per foot (305mm)	636	662	690	717
Watts per foot (305mm)	12.6	12.6	12.6	12.6

36° Medium (36)



L80 >70,000 hours

Standard Output (SO)	80 CRI (80min., 84 avg.)			
	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	67	70	73
Lumens per foot (305mm)	476	496	516	537
Watts per foot (305mm)	7.3	7.3	7.3	7.3

High Output (HO)				
Efficacy - Lumens per Watt	57	60	63	65
Lumens per foot (305mm)	724	754	786	817
Watts per foot (305mm)	12.6	12.6	12.6	12.6

Patent Marking

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