vode

Spec Guide

BoxRail | Table Arm | 107

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

Red List Approved
Declare.

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.
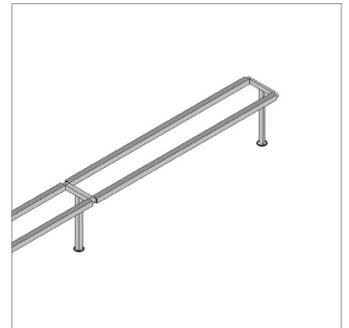
Adaptive PowerCenter
Full range dimming power for all protocols.

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	▶▶

System Code	Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length
107 System | 107	**Singular Rail**	**01** Single Rail	Specify overall system length in ft/in or M/mm.	**24** 24" (610mm)	**TA** Table Arm	**18** 18" arm (457mm)
	BX BoxRail	**03** Double Rail with 3" (76mm) Tee		**36** 36" (914mm)		**ZZ** Other (please specify) [1]
		06 Double Rail with 6" (152mm) Tee	*Corner and Shapes available **See Guide** for details.*	**48** 48" (1219mm)		
	Dual Hub [6]	**12** Double Rail with 12" (305mm) Tee		**60** 60" (1524mm)		
	2B BoxRail - BoxRail	**DH** Double Rail with Dual Hub		**ZZ** Other rail length or layout (please specify)		
	ZZ Other (please specify)	**DH03** Double Rail with Dual Hub with 3" (76mm) Tee		*See **Rail Length Chart** for more details.*		
		DH06 Double Rail with Dual Hub with 6" (152mm) Tee		⚠ ***Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.***		
		DH12 Double Rail with Dual Hub with 12" (305mm) Tee				
		ZZ Other (please specify)				

▶▶			▶▶

Power Location	Power Type	Voltage	Emergency Power
Remote Power	**Flexible 1 to 1 Power**	**1** 120V	**0** No Emergency Power
Specify mounting and harness length code example: 2T25, 2T50...etc.	**AE** 0-10v, 1.0% Dimming	**2** 120V - 277V	**ZZ** Emergency Power *(specify requirements)*
	AT 0-10v, 0.1% Dimming	**X** Not Yet Specified	

Mounting Option	Wire Harness
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

Power Type (continued):
- **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][5]

Optimized Power
Add 'O' to power type example: AE**O**, AT**O**...etc. [2]

VodeNODE
Add 'N' to power type for Flexible 1 to 1 Power
Add 'ON' to power type for Optimized Power
example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [3]

ZZ Other (please specify)

*See **Power Guide** for driver features & limitations.*

▶▶	Z				

LED Type	Lumen Output	Color Temperature	Optics	Sensors
Z Zipper Board	**LO** Low Output	**90+ CRI**	**Zipper Board (Z)**	**0** None
	SO Standard Output	**27** 2700K	**1** Diffuse	**ZZ** Sensor *(specify requirements)*
	HO High Output	**30** 3000K	**WB** White Baffle	
	ZZ Other (please specify)	**35** 3500K	**BB** Black Baffle	
		40 4000K	**G1** 120° Batwing	
	*See **IES Files** page for details.*		**G2** 120° FlyWing	
	*See **Power Guide** for driver features & limitations.*	**ZZ** Tunable White Available	**S1** 40° Symmetric	
		*See **Guide** for details.*	**S2** 60° Symmetric	
			A1 85° Asymmetric	

▶▶	

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)	**CPP** Chicago Plenum Power

*Standard 5 Year Limited Warranty. See details **here**. Contact factory for options on Limited Warranties up to 20 years.*

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.
[5] 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.
[6] Dual Hub comes with a powered and non-powered side. Refer to installation instructions for orientation restrictions.
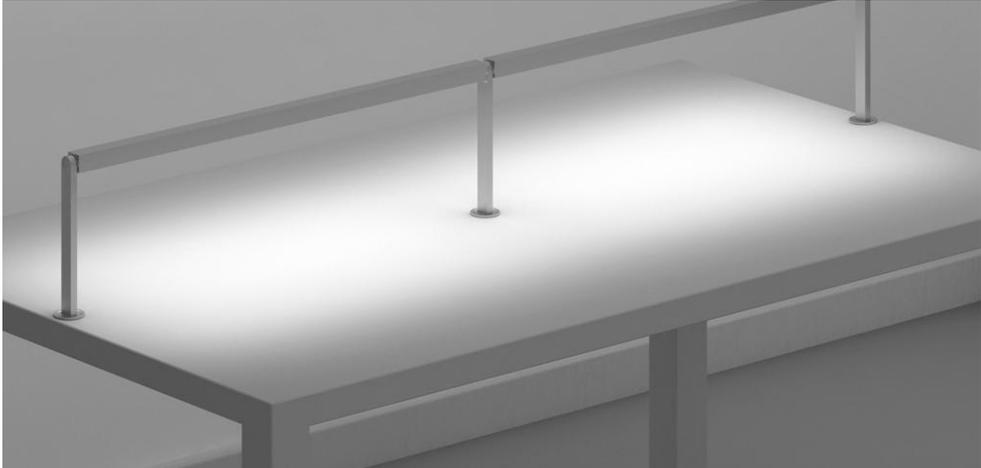
Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.

Applications

Corporate, Educational, and Library

Fixture: rendering.

Library: rendering.

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

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

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ 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 | BoxRail | Table Arm
Embodied Carbon (kg CO$_2$e): 48.72*

*__Note__: Embodied Carbon, expressed in kilograms of CO$_2$e is calculated using a 48" fixture **and includes the LED driver.**

CIBSE   ASHRAE®

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.

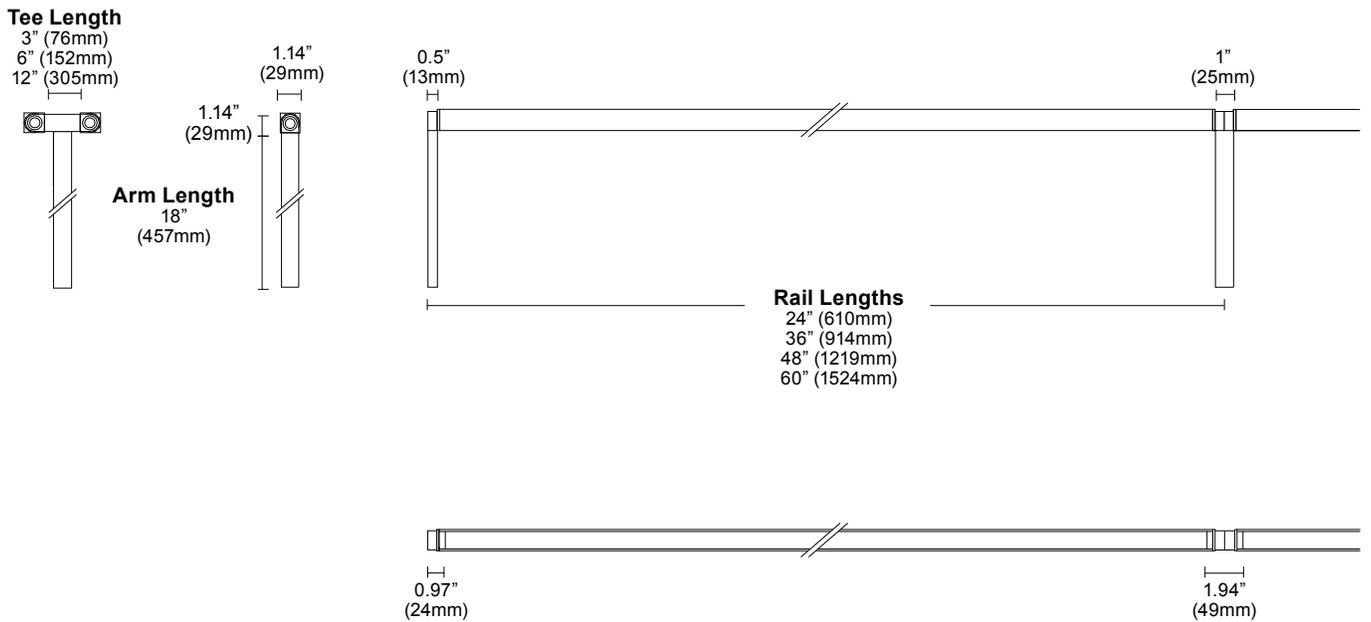BAA   BABA

Click here to learn more: *US Department of Commerce*

Structure

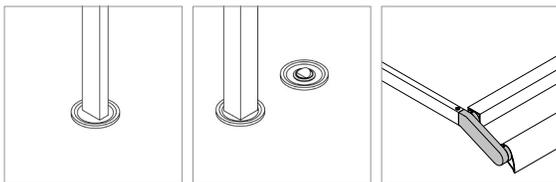|	
Rail Lengths	24" (610mm) - 60" (1524mm). Modified lengths available. *See **Rail Length Chart** for more details.*
Rail Dimensions	1.14" (29mm) x 1.14" (29mm) x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Table mount to Arm Anchor®.
Arm Length	18" (457mm). Non-standard arm lengths 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

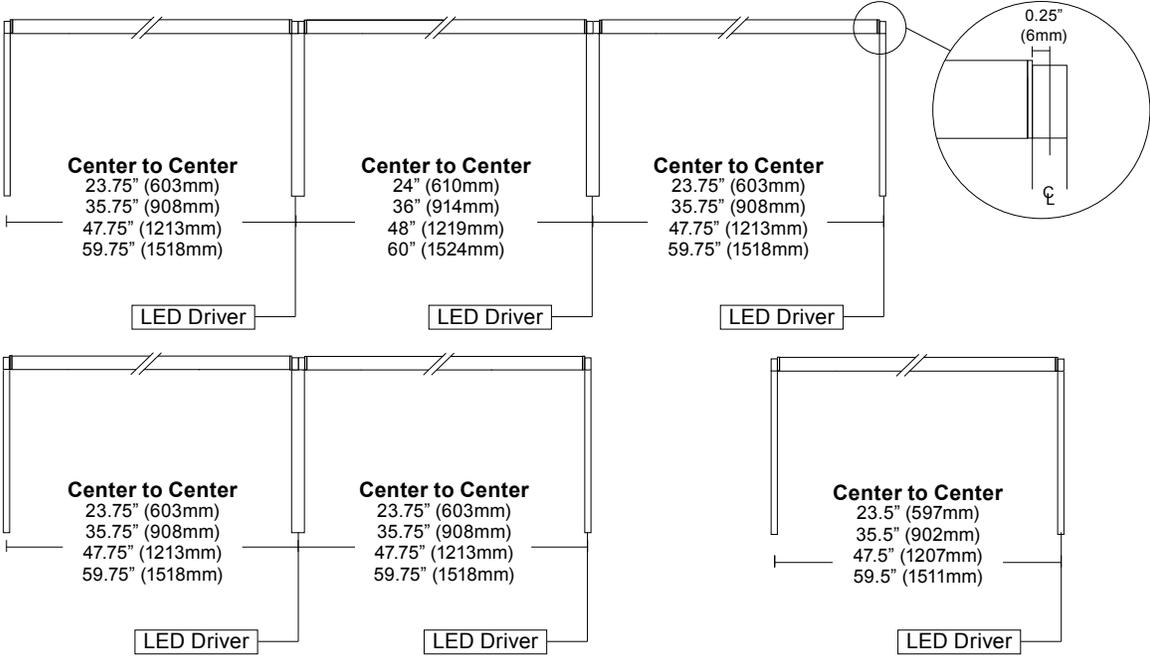|	
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Baffle	6063 Aluminum, RoHS compliant painted finish.
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 *(PVC free in 2020)*.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant *(PVC free in 2020)*.
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

Tee Length
3" (76mm)
6" (152mm)
12" (305mm)

1.14" (29mm)

1.14" (29mm)

Arm Length
18" (457mm)

0.5" (13mm)

1" (25mm)

Rail Lengths
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)

0.97" (24mm)

1.94" (49mm)

Mounting Options

Arm Anchor ®
h0.1" (3mm)
Ø2" (51mm)

On Off Switch
(optional)

Dual Hub

Layout

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

0.25"
(6mm)

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.5" (597mm)
35.5" (902mm)
47.5" (1207mm)
59.5" (1511mm)

LED Driver

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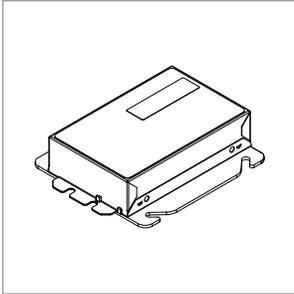
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided).
See *Tech Sheet* for details.

Remote Linear Power Housing
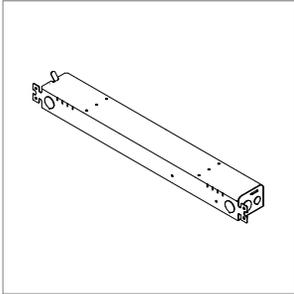
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
See *Tech Sheet* for details.
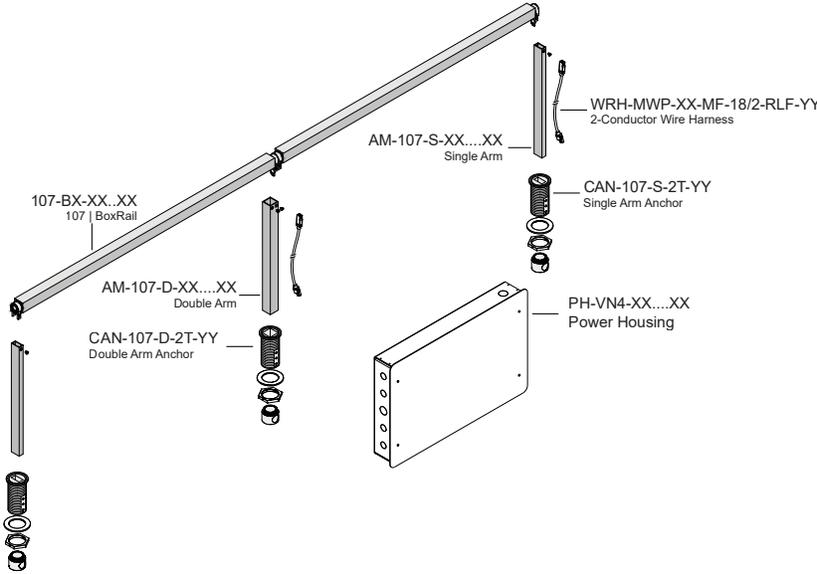
Wire Harness
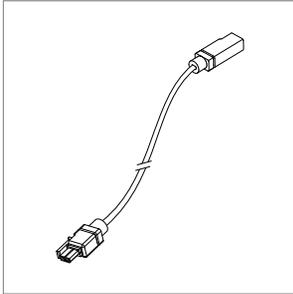
Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See *Tech Sheet* for details.

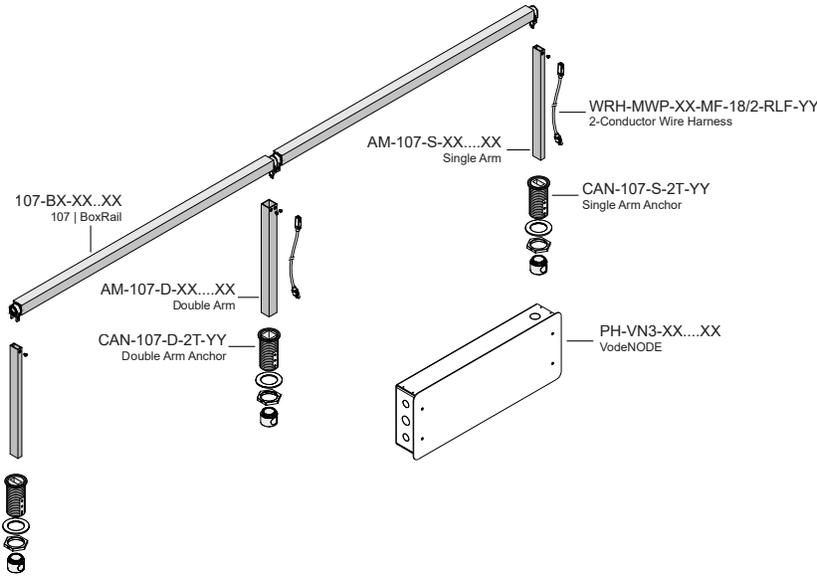## Power and Controls

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.

WRH-MWP-XX-MF-18/2-RLF-YY
2-Conductor Wire Harness

AM-107-S-XX....XX
Single Arm

CAN-107-S-2T-YY
Single Arm Anchor

107-BX-XX..XX
107 | BoxRail

AM-107-D-XX....XX
Double Arm

PH-VN4-XX....XX
Power Housing

CAN-107-D-2T-YY
Double Arm Anchor

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.

WRH-MWP-XX-MF-18/2-RLF-YY
2-Conductor Wire Harness

AM-107-S-XX....XX
Single Arm

CAN-107-S-2T-YY
Single Arm Anchor

107-BX-XX..XX
107 | BoxRail

AM-107-D-XX....XX
Double Arm

PH-VN3-XX....XX
VodeNODE

CAN-107-D-2T-YY
Double Arm Anchor

Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
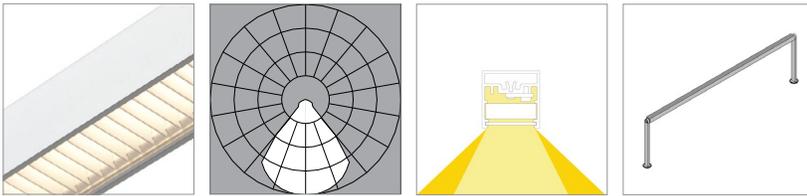
Diffuse (1)
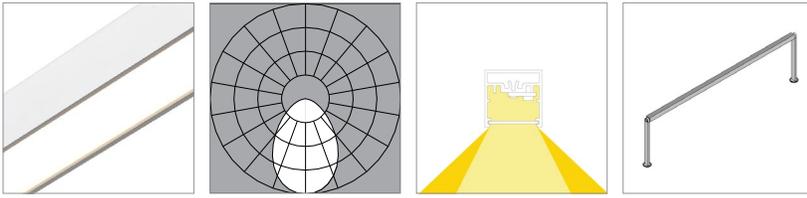
L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	81	83	85	86
Lumens per foot (305mm)	277	286	292	294
Watts per foot (305mm)	3.5	3.5	3.5	3.5

Standard Output (SO)	2700K	3000K	3500K	4000K
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

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

White Baffle (WB)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

Standard Output (SO)	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

High Output (HO)	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

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
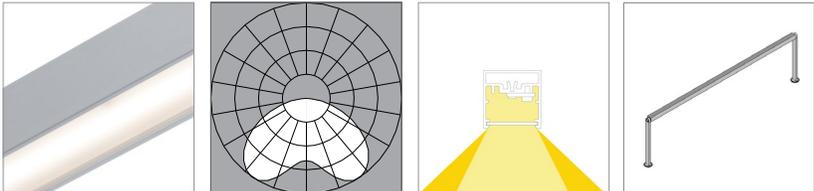
Black Baffle (BB)
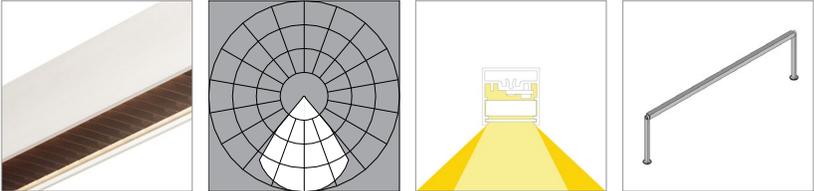
L80 >60,000 hours

90 CRI (90min., 96 avg.)

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

Standard Output (SO)	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

High Output (HO)	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

120° Batwing (G1)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

Standard Output (SO)	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

High Output (HO)	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

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
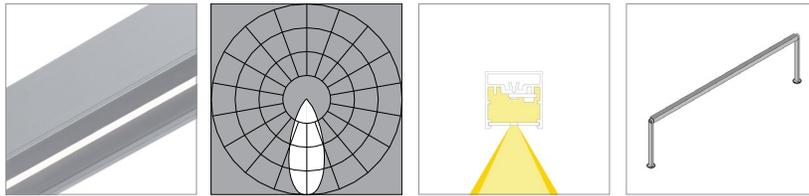
120° FlyWing (G2)
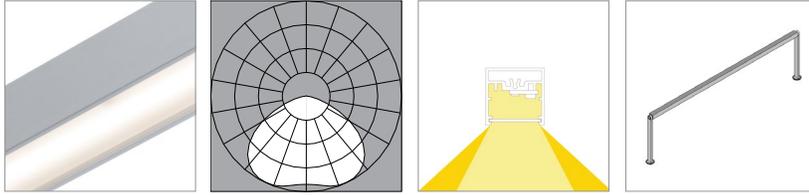
L80 >60,000 hours

90 CRI (90min., 96 avg.)

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

Standard Output (SO)	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

High Output (HO)	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

40° Symmetric (S1)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

Standard Output (SO)	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

High Output (HO)	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

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
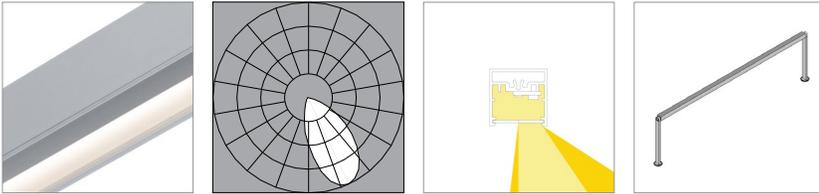
60° Symmetric (S2)
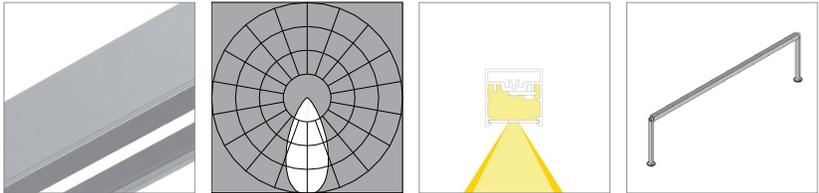
L80 >60,000 hours

90 CRI (90min., 96 avg.)

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

Standard Output (SO)	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

High Output (HO)	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

85° Asymmetric (A1)

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

Standard Output (SO)	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

High Output (HO)	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

Performance | Zipper Board Optics

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

40º Symmetric, black finish (S1-BL)
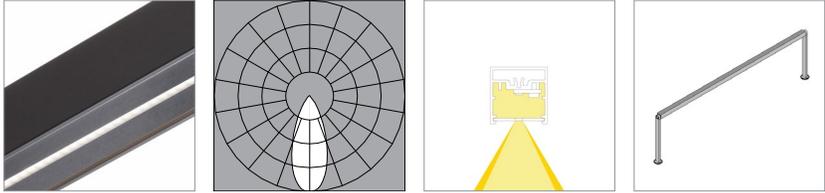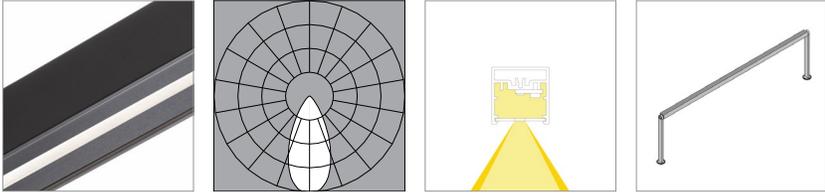

L80 >60,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

Standard Output (SO)	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

High Output (HO)	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

60º 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

Performance | Zipper Board Optics

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

85º Asymmetric, black finish (A1-BL)
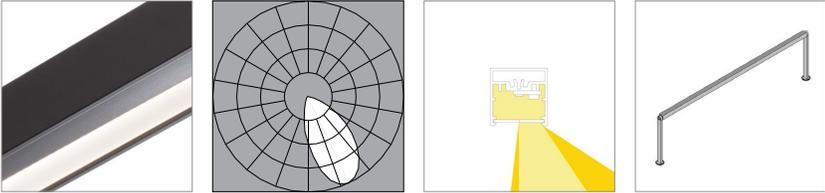
L80 >60,000 hours

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

Patent Marking

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