



Spec Guide

BoxRail | Ceiling Cable | 107



Direct or indirect lighting for open office and ambient applications.



BoxRail: direct or indirect, infinite rotation

Benefits & Features

Minimal Profile, Robust Design

Double Rail performance in a small square profile, 1.14 in x 1.14 in.

Superior Light Quality & Performance

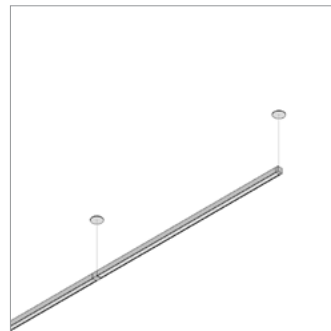
Output up to 1521 lm/ft (HO), 125 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

High Performance Optics

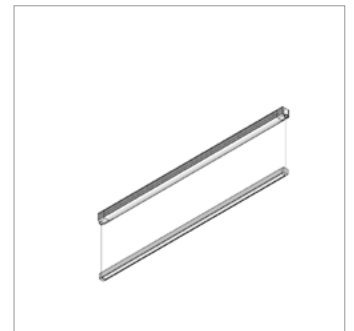
Break through Batwing lens designed for excellent fixture to fixture spacing.

Continuous Line of Light

Continuous line of light between rail sections.



Large Round Canopy,
Remote Power



Integral Power

Build Your Specification

107-BX	01			CC	»
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System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Cable Length
107-BX BoxRail	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) 36 36" (914mm) 48 48" (1219mm) 60 60" (1524mm) 72 72" (1829mm) ZZ Other rail length or layout (please specify) See Rail Length Chart for more details. ▲ Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.	CC Ceiling Cable	<i>Field adjustable.</i> 48 48" cable (1219mm) 96 96" cable (2438mm) ZZ Other (please specify)

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Power Location	Power Type	Voltage	Emergency Power
Integral Power IP Integral Power Remote Power Specify mounting and harness length code example: 2R25, 4R25 ...etc. Mounting Option	Flexible 1 to 1 Power 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, Soft On / Fade to Black Technology, LDE ¹ AH2 ELV 1% 2-wire (Forward and Reverse Phase) Optimized Power Add 'O' to power type example: AEO, ATO...etc. ¹ 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. ² ZZ Other (please specify) See Power Guide for driver features & limitations.	1 120V 2 120V - 277V X Not Yet Specified	0 No Emergency Power ZZ Emergency Power (specify requirements)
Wire Harness 2R Small Round Canopy 10 10' (3.048m) Wire Harness 4R Large Round Canopy 25 25' (7.62m) Wire Harness 50 50' (15.24m) Wire Harness 75 75' (22.86m) Wire Harness 100 100' (30.48m) Wire Harness			

» Z				
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LED Type	Lumen Output	Color Temperature	Optics	Sensors ⁶
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 ENC Canopy with integrated Enlighted Micro Sensor ⁵ WSC Canopy with integrated Legrand Wattstopper sensor ⁵ LAC Canopy with integrated Lutron Athena sensor ⁵ ZZ Other (please specify)

NOTES & LIMITATIONS

- ¹ Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.
- ² VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.
- ³ 9' 18/3 Cord and Plug only available with Remote Power (RP).
- ⁴ Chicago Plenum not applicable for wall arm mounting.
- ⁵ Rotating fixture as an uplight will interfere with sensor operation.
- ⁶ Sensors, drivers, and control units that are integrated into Vode fixtures are discrete components that communicate with network lighting controls. For more information about each network lighting control system, visit the manufacturer's website for additional system information and technical data sheets.
For general information about network lighting controls, consult the DesignLights Consortium® (DLC) [Networked Lighting Control Qualified Product List](#)

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Finish	Options
AL Clear Anodized WH White Powder Coat BL Black Anodized ZZ Other (please specify)	0 None 9 9' 18/3 Cord and Plug CP Chicago Plenum LLLC Luminaire Level Lighting Controls

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

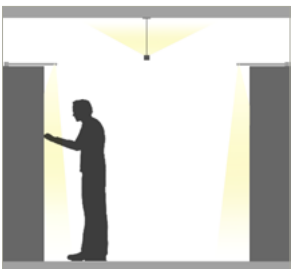
General Interior, Open Office



Microsoft's Mid-Market Offices, San Francisco, CA



Rapt Studio, San Francisco, CA



Libbie Mill Library, Richmond, VA

Applications

General Interior, Open Office



Sheppard Mullin, San Francisco, CA




Harold C. Smith Learning Commons, Springfield, MA

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/declare) website for details.



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:

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:

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



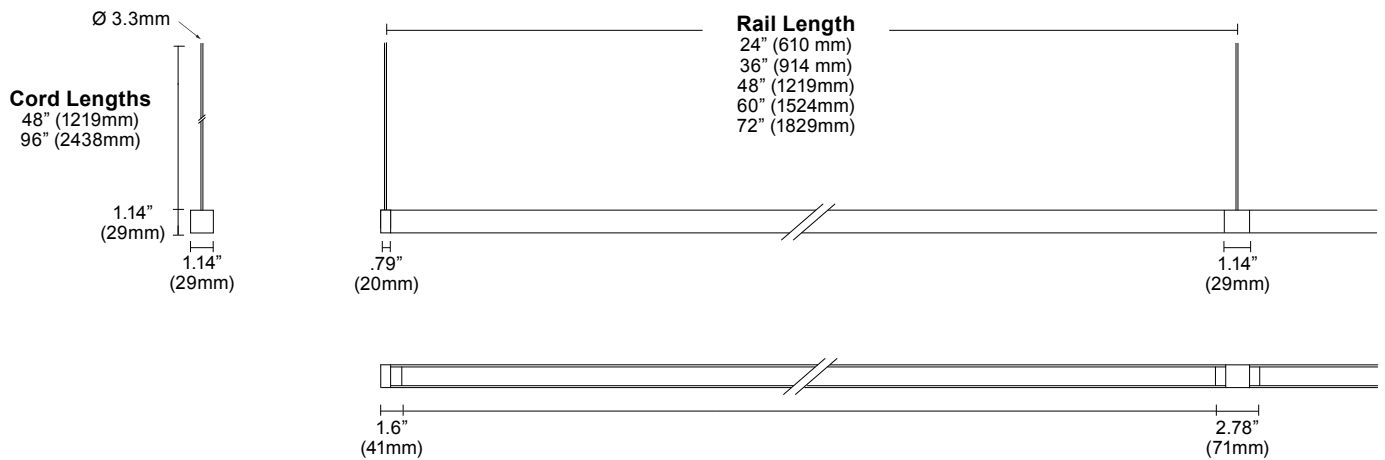
Structure

Rail Lengths	24" (610mm) - 72" (1829mm). 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	Ceiling mount to jbox or driver housing.
Cable Length	48" (1220mm) and 96" (2438mm) available. Field adjustable. Non-standard cable lengths available.
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	0.99 lbs per ft (0.45kg per 305mm) Power supply and housing not included.

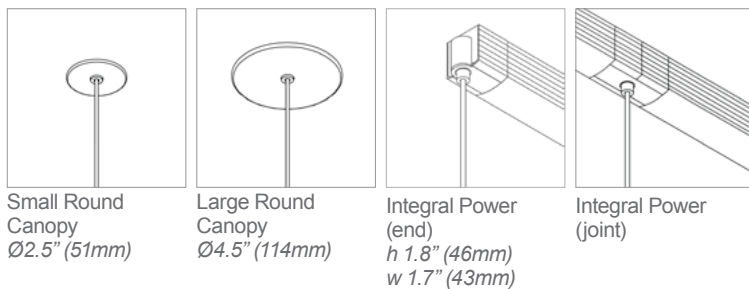
Materials

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.
Suspension Cable	Ø3.3mm, 22/2 AWG, PVC or TPE and RoHS compliant, Red List Approved.
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910, Red List Approved.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant, Red List Approved.
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.

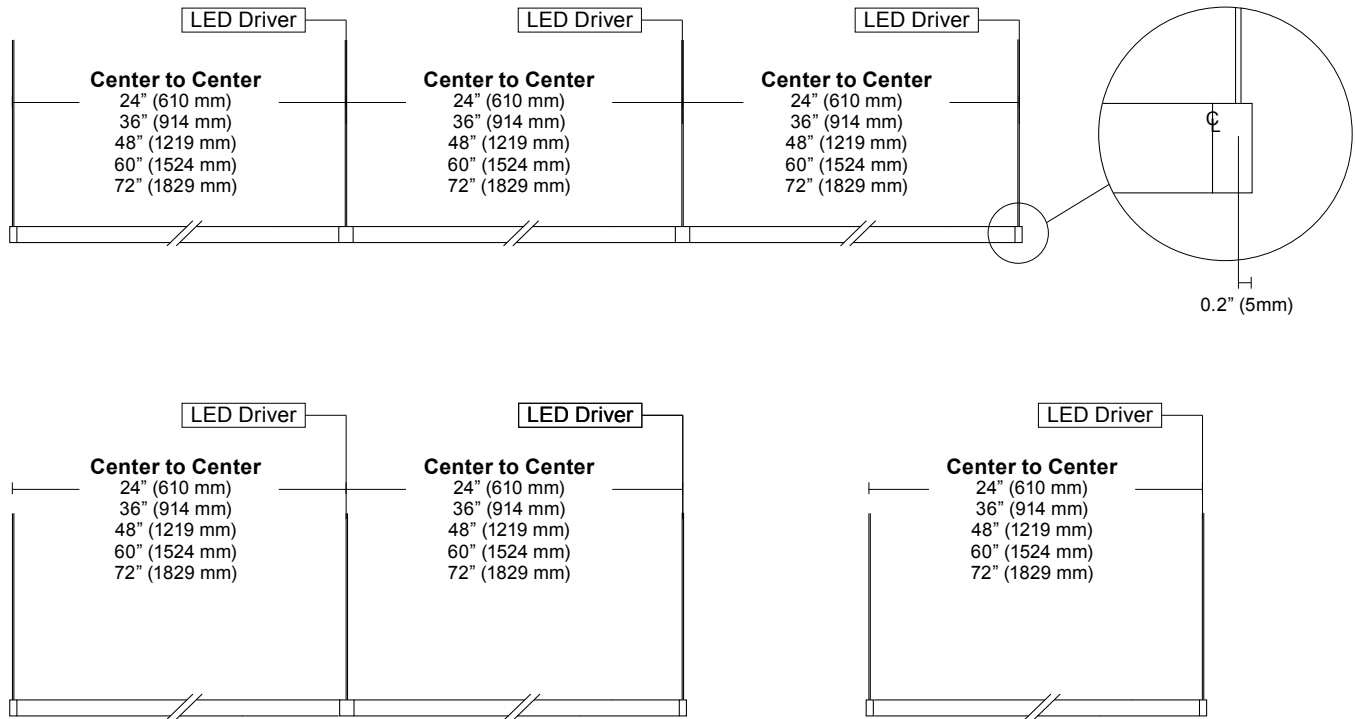
Dimensions



Mounting Options



Layout



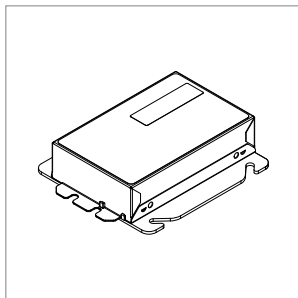
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) [See Guide](#) for details.

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.

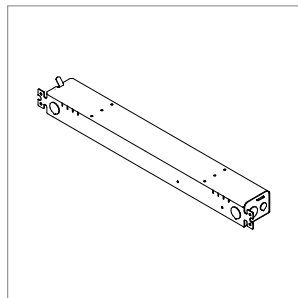
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

Remote Brick Power Housing



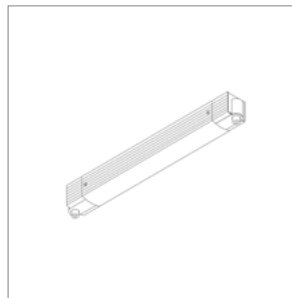
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



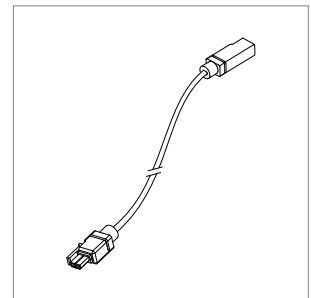
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

Integral Power



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

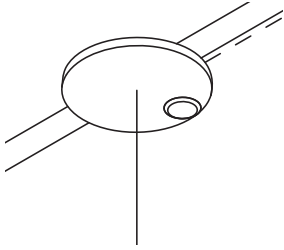
Wire Harness



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.

vodeCONNECT Sensors

Canopy with integrated sensor



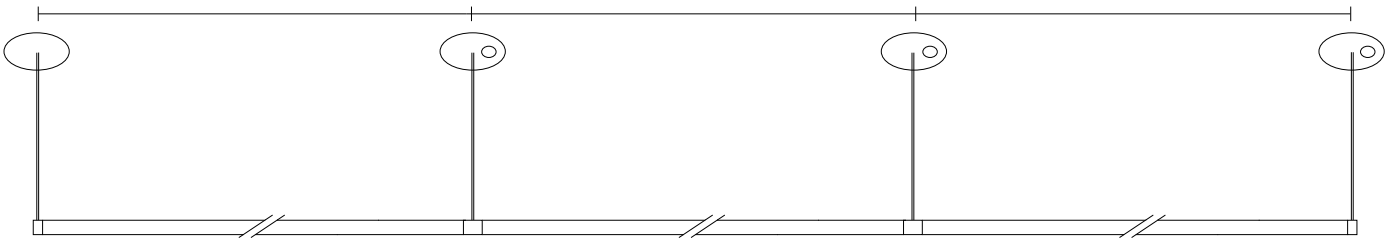
Sensor partners



Integrated canopy sensor layout ¹

1 sensor per fixture. See [vodeCONNECT brochure](#) for more details.

NOTES: 1. Available with Large Round Canopy only.



Compatible sensors



Lutron Athena



Legrand Wattstopper

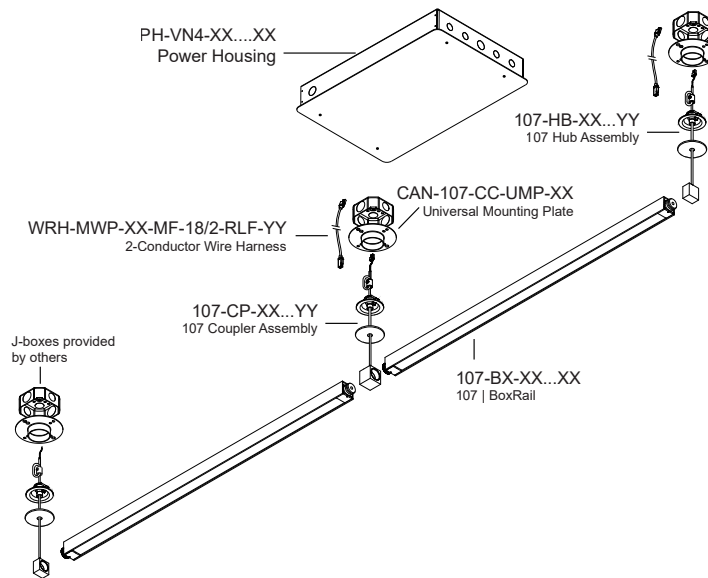


Enlighted Micro Sensor

Power and Controls

Flexible 1 to 1 power

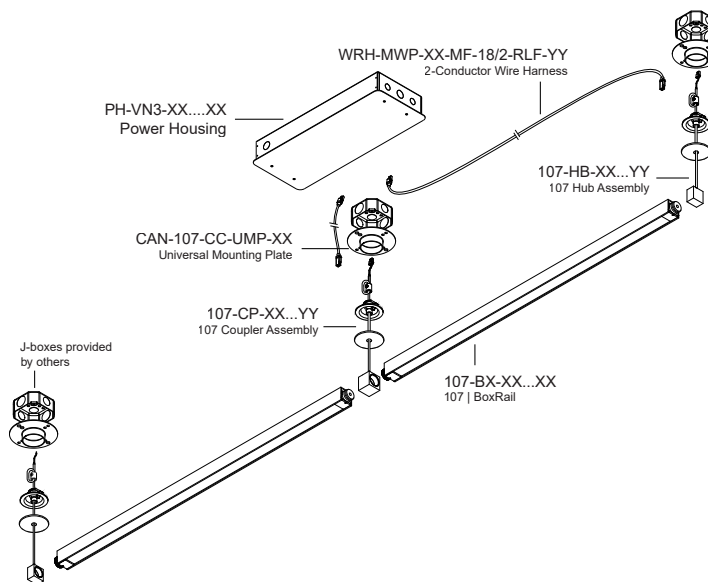
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

Finish

Clear Anodized Finish



Clear Anodized Rail, White Canopy/Integral Power, White Cable

White Powder Coat Finish



White Rail, White Canopy/Integral Power, White Cable

Black Anodized Finish

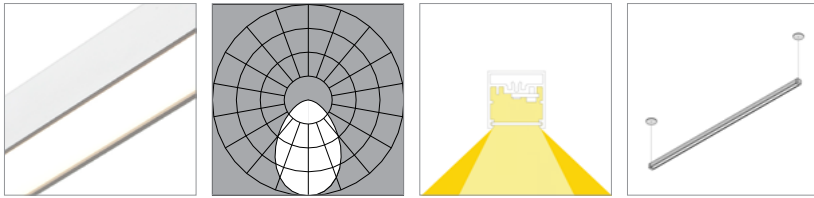


Black Rail, Black Canopy/Integral Power, Black Cable

Performance | Zipper Board Optics

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

Diffuse (1)



L90 >100,000 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)

	2700K	3000K	3500K	4000K
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

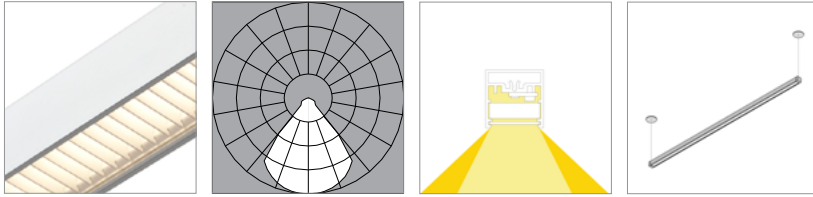
High Output (HO)

	2700K	3000K	3500K	4000K
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)



L90 >100,000 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

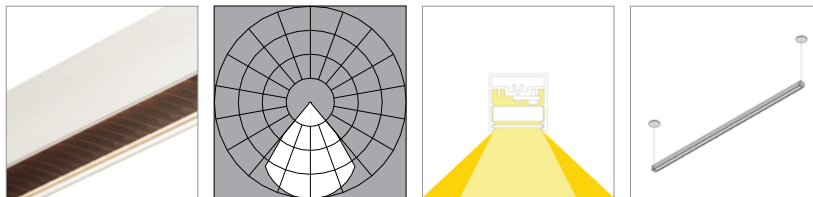
Standard Output (SO)

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

Black Baffle (BB)



L90 >100,000 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

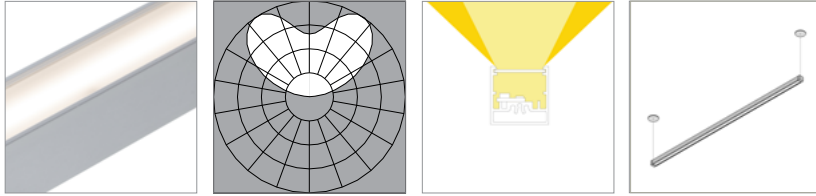
High Output (HO)

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

Performance | Zipper Board Optics

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

120° Batwing (G1)



L90 >100,000 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

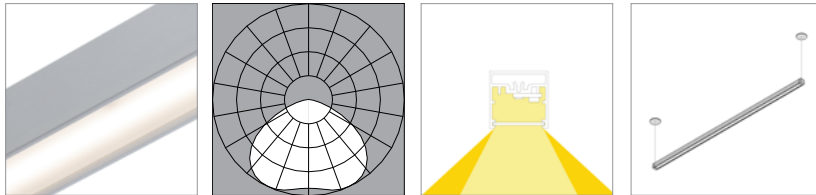
Standard Output (SO)

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

120° FlyWing (G2)



L90 >100,000 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)

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

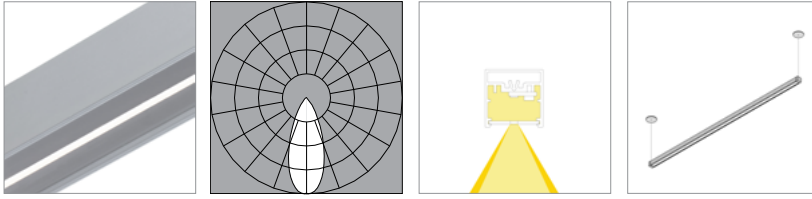
High Output (HO)

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)



L90 >100,000 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

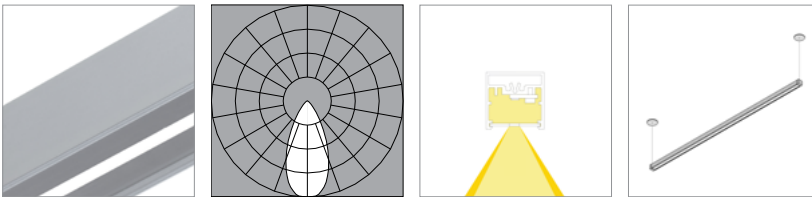
Standard Output (SO)

	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

60° Symmetric (S2)



L90 >100,000 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)

	2700K	3000K	3500K	4000K
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

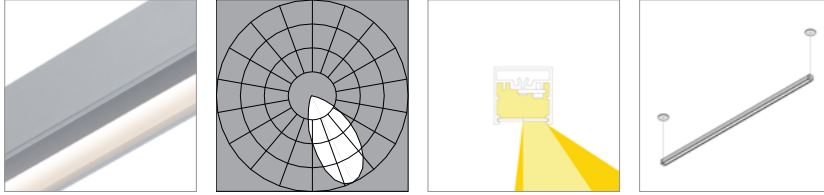
High Output (HO)

	2700K	3000K	3500K	4000K
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)



L90 >100,000 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

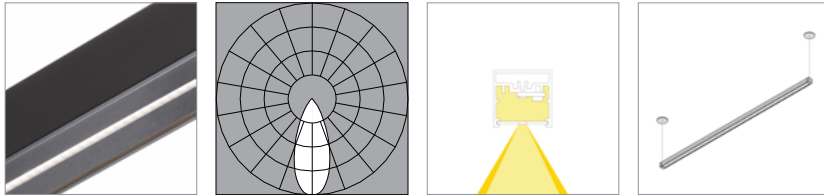
Standard Output (SO)

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

40° Symmetric, black finish (S1-BL)



L90 >100,000 hours

90 CRI (90min., 96 avg.)

Low Output (LO)	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

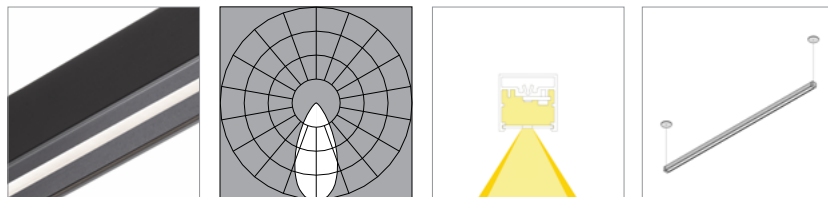
High Output (HO)

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)



L90 >100,000 hours

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

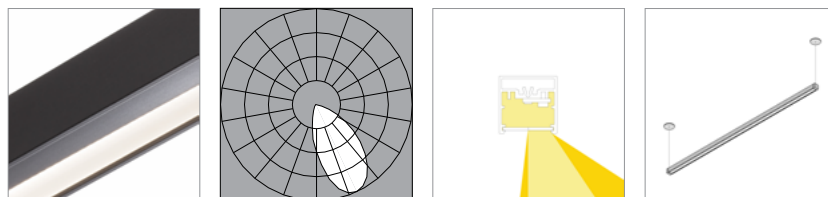
Standard Output (SO)

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)



L90 >100,000 hours

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

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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