



Spec Guide

RaceRail | Ceiling-Wall Arm | 107



Direct or indirect lighting for open office, wall wash and ambient applications.



RaceRail: direct or indirect, 370° rotation

Benefits & Features

Super Slim, Adaptive Design

Round profile, Ø1.12" (28mm).

Superior Light Quality & Performance

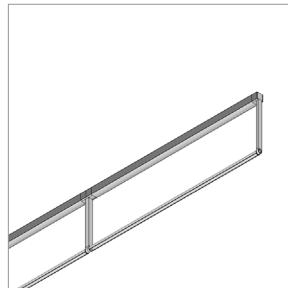
Output up to 1507 lm/ft (4943 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

Adaptive Power

Full range dimming power for all protocols. Integral or remote power available.

Better Optics & Beam Control Options

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



Integral Power



Double Rail with Tee, Zero Canopy™

Build Your Specification

107-RR						»
System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length	
107-RR RaceRail	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 See Guide for details.</i>	24 24" (610mm) 36 36" (914mm) 48 48" (1219mm) 60 60" (1524mm) 72 72" (1829mm) ZZ Other rail length or layout (please specify)	CA Ceiling Arm WA Wall Arm	1.25 1.25" arm (32mm) ¹ 3 3" arm (76mm) 6 6" arm (152mm) 12 12" arm (305mm) 18 18" arm (457mm) ² 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 2 120V - 277V X Not Yet Specified			
IP Integral 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)				
Remote Power	Optimized Power				
Specify mounting and harness length code example: 2R25 , 4R25 ...etc.	Add 'O' to power type example: AEO, ATO...etc. ³				
Mounting Option	Wire Harness				
00 Zero Canopy 0B Zero Block 2R Small Round Canopy 2S Small Square Canopy 4R Large Round Canopy 4S Large Square Canopy	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				
		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. ⁴ ZZ Other (please specify)			
See Power Guide for driver features & limitations.					

»		Z	»		»	
Emergency Power	LED Type	Lumen Output	Color Temperature	Optics	Sensors	
0 No Emergency Power ZZ Emergency Power (specify requirements)	Z Zipper Board	LO Low Output SO Standard Output HO High Output ZZ Other (please specify) <i>See IES Files page for details. See Power Guide for driver features & limitations.</i>	80+ CRI 27 2700K 30 3000K 35 3500K 40 4000K 90+ CRI 279 2700K 309 3000K 359 3500K 409 4000K ZZ Tunable White Available See Guide for details.	Zipper Board™ (Z) 2 Diffuse, round G1 120° Batwing G2 120° FlyWing	0 None ZZ Sensor (specify requirements)	

»		»	
Finish	Options	NOTES & LIMITATIONS	
AL Clear Anodized WH White Powder Coat BL Black Anodized ZZ Other (please specify)	0 None 9 9' 18/3 Cord and Plug ⁵ CP Chicago Plenum ⁶	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 9' 18/3 Cord and Plug only available with Remote Power (RP). ⁶ Chicago Plenum not applicable for wall arm mounting.	

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 and Open Office



Hicksons Lawyers, Barangaroo, Sydney, Australia



Open Office: rendering.



Newport Beach Civic Center, Newport Beach, CA

Declare Label

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

See [International Living Future Institute](https://www.livingfuture.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)

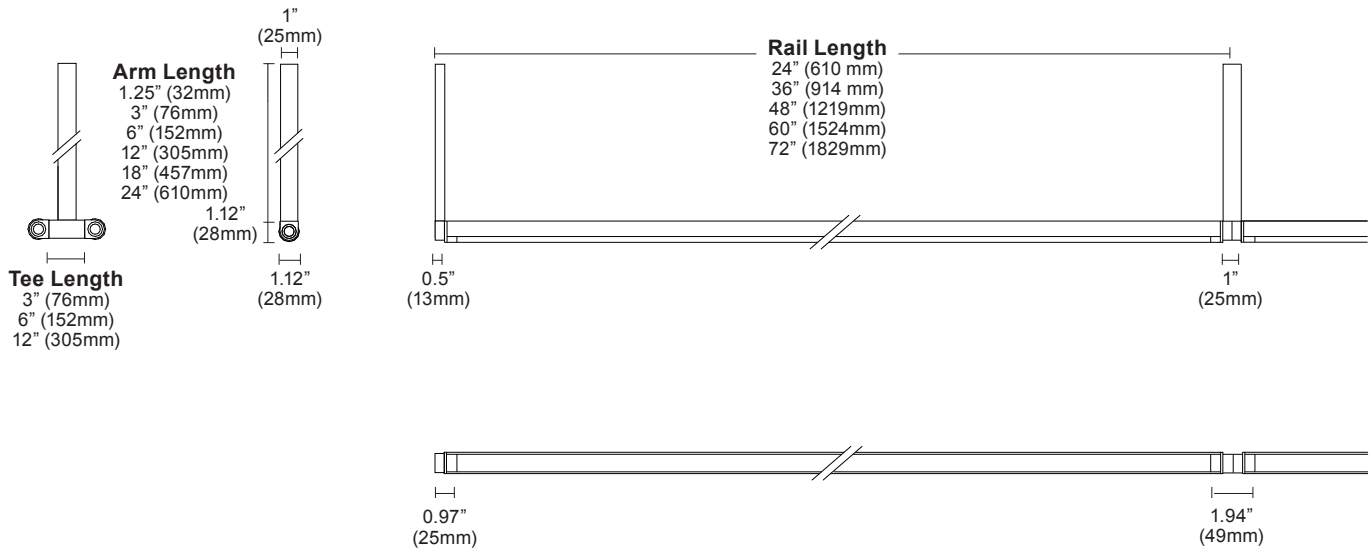
Structure

Rail Lengths	24" (610mm) - 72" (1829mm). Modified lengths available. See Rail Length Chart for more details.
Rail Dimensions	Ø1.12" (28mm) 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) minimum. Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-85%, non-condensing.
System Weight	0.88lbs per ft (0.40kg per 305mm) Power supply and housing not included.

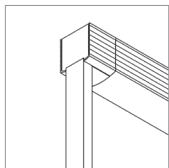
Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
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)	0.7" 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.

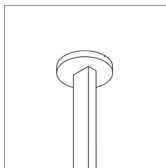
Dimensions



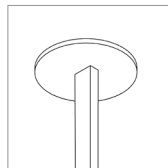
Mounting Options



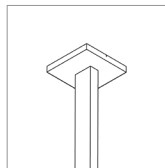
Integral Power
h 1.8" (46mm)
w 1.7" (43mm)



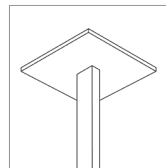
Small Round
Canopy
Ø2.5" (64mm)



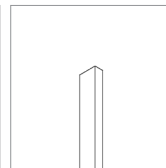
Large Round
Canopy
Ø4.5" (114mm)



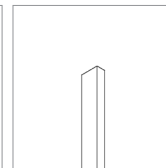
Small Square
Canopy
2.5" (64mm)



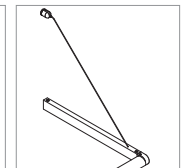
Large Square
Canopy
4.5" (114mm)



Zero Block

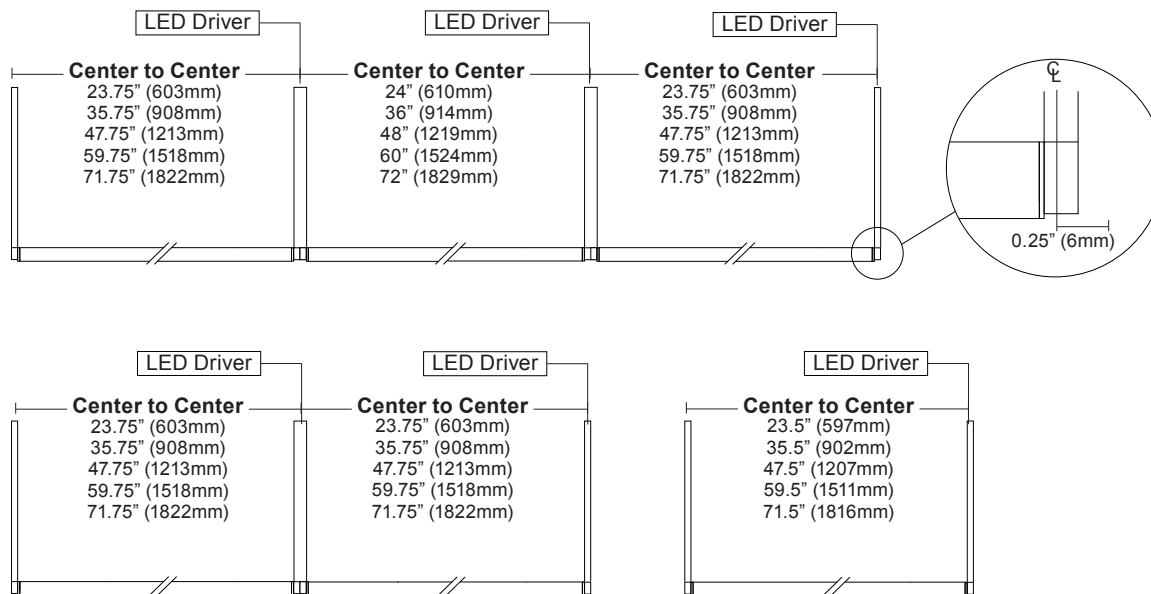


Zero Canopy



Cable Tie Back
for wall arms ≥ 18"
(457mm) and tees
≥ 6" (152mm).

Layout



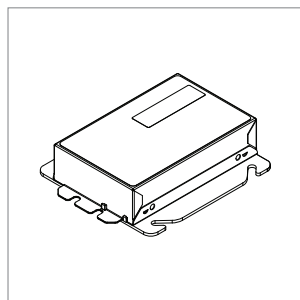
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) [See Guide](#) for details.

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.

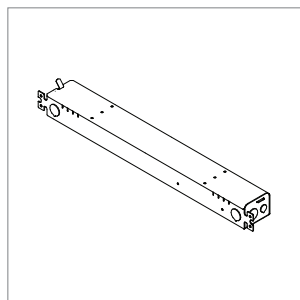
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

Remote Brick Power Housing



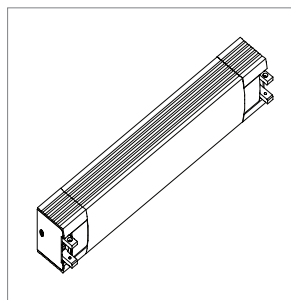
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided). See [Tech Sheet](#) for details.

Remote Linear Power Housing



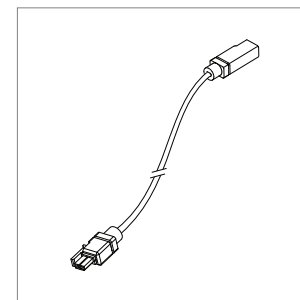
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

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

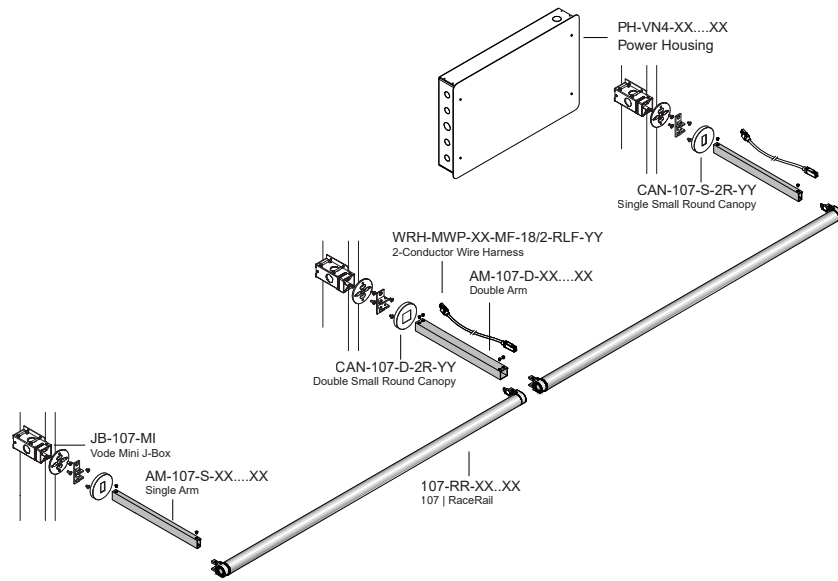


Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m). See [Tech Sheet](#) for details.

Power and Controls

Flexible 1 to 1 power

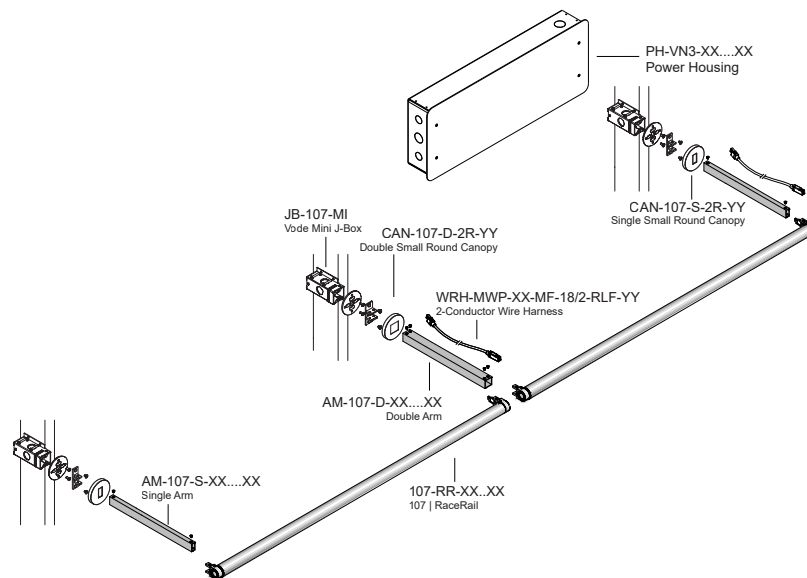
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

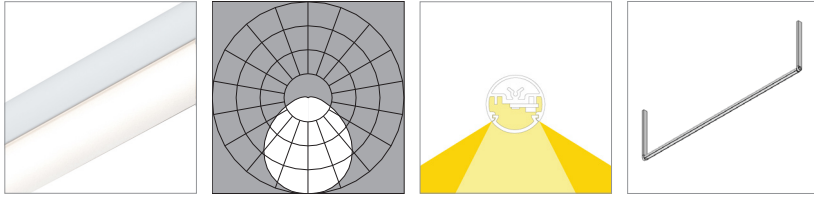


Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

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

Diffuse, round (2)



L80 >60,000 hours

Low Output (LO)	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	132	132	109	112	114	115
Lumens per foot (305mm)	432	446	455	455	373	385	392	396
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

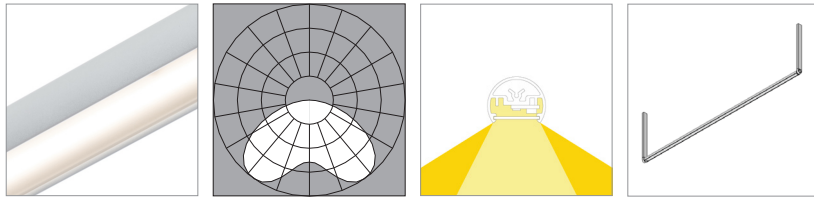
Standard Output (SO)

Efficacy - Lumens per Watt	145	150	153	153	125	129	132	133
Lumens per foot (305mm)	865	892	910	910	746	769	785	793
Watts per foot (305mm)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

High Output (HO)

Efficacy - Lumens per Watt	134	139	142	142	116	120	122	123
Lumens per foot (305mm)	1643	1695	1730	1730	1416	1461	1491	1506
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

120° Batwing (G1)



L80 >60,000 hours

Low Output (LO)	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	103	85	87	89	90
Lumens per foot (305mm)	365	377	385	385	315	325	332	335
Watts per foot (305mm)	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

Standard Output (SO)

Efficacy - Lumens per Watt	122	126	128	128	106	109	111	112
Lumens per foot (305mm)	731	754	769	769	630	650	663	670
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0

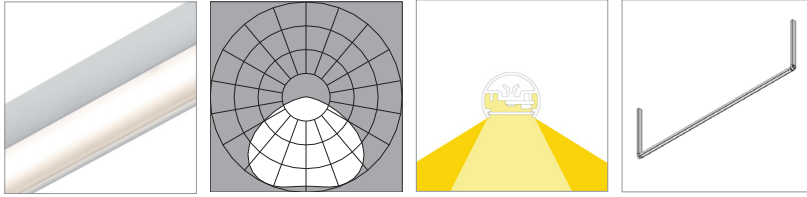
High Output (HO)

Efficacy - Lumens per Watt	114	117	120	120	98	101	103	104
Lumens per foot (305mm)	1389	1433	1462	1462	1197	1235	1260	1273
Watts per foot (305mm)	12.3	12.3	12.3	12.3	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 is >60,000 hours

	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Low Output (LO)								
Efficacy - Lumens per Watt	108	111	114	114	93	96	98	99
Lumens per foot (305mm)	370	382	390	390	319	329	336	339
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Standard Output (SO)								
Efficacy - Lumens per Watt	124	128	131	131	107	110	113	114
Lumens per foot (305mm)	741	764	780	780	639	659	672	679
Watts per foot (305mm)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
High Output (HO)								
Efficacy - Lumens per Watt	115	119	121	121	99	103	105	106
Lumens per foot (305mm)	1408	1452	1482	1482	1213	1252	1277	1290
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

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