

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 in.

#### Superior Light Quality & Performance

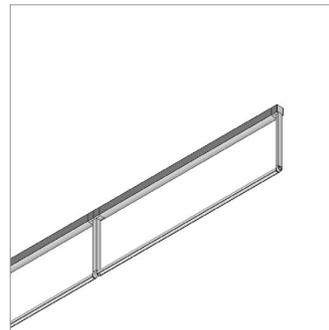
Output up to 1507 lm/ft (HO), 132 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

#### High Performance Optics

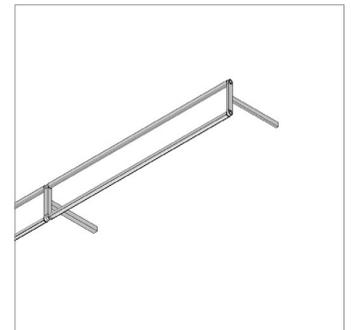
Break through Batwing lens designed for excellent fixture to fixture spacing.

#### Better Optics & Beam Control Options

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						
<b>System Code</b>	<b>Rail Type</b>	<b>Single/Double Rail</b>	<b>System Length</b>	<b>Rail Length</b>	<b>Mounting</b>	<b>Arm Length</b>
107 System   107	<b>Singular Rail</b>	<b>01</b> Single Rail	Specify overall	<b>24</b> 24" (610mm)	<b>CA</b> Ceiling Arm	<b>1.25</b> 1.25" arm (32mm) <sup>1</sup>
	<b>RR</b> RaceRail	<b>03</b> Double Rail with 3" (76mm) Tee	system length	<b>36</b> 36" (914mm)	<b>WA</b> Wall Arm	<b>3</b> 3" arm (76mm)
		<b>06</b> Double Rail with 6" (152mm) Tee	in ft/in or M/mm.	<b>48</b> 48" (1219mm)		<b>6</b> 6" arm (152mm)
	<b>Dual Hub</b> <sup>8</sup>	<b>12</b> Double Rail with 12" (305mm) Tee		<b>60</b> 60" (1524mm)		<b>12</b> 12" arm (305mm)
	<b>2R</b> RaceRail - RaceRail	<b>DH</b> Double Rail with Dual Hub	<i>Corner and Shapes available See Guide for details.</i>	<b>72</b> 72" (1829mm)		<b>18</b> 18" arm (457mm) <sup>2</sup>
	<b>ZZ</b> Other (please specify)	<b>DH03</b> Double Rail with Dual Hub with 3" (76mm) Tee		<b>ZZ</b> Other rail length or layout (please specify)		<b>24</b> 24" arm (610mm) <sup>2</sup>
		<b>DH06</b> Double Rail with Dual Hub with 6" (152mm) Tee				<b>ZZ</b> Other (please specify) <sup>2</sup>
		<b>DH12</b> Double Rail with Dual Hub with 12" (305mm) Tee			See <a href="#">Rail Length Chart</a> for more details.	
		<b>ZZ</b> Other (please specify)			<b>▲ Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.</b>	

Power Location	Power Type	Voltage
<b>Integral Power</b>	<b>Flexible 1 to 1 Power</b>	<b>1</b> 120V
<b>IP</b> Integral Power	<b>AE</b> 0-10V, 1.0% Dimming	<b>2</b> 120V - 277V
<b>Remote Power</b>	<b>AT</b> 0-10V, 0.1% Dimming	<b>X</b> Not Yet Specified
Specify mounting and harness length code example: <b>2R25, 4R25</b> ...etc.	<b>AD</b> DALI, 0.1% Dimming	
<b>Mounting Option</b>	<b>AX</b> DMX, 100-0% Dimming	
	<b>AH</b> Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE <sup>1</sup>	
<b>Wire Harness</b>	<b>AH2</b> ELV 1% 2-wire (Forward and Reverse Phase) <sup>7</sup>	
<b>00</b> Zero Canopy		
<b>0B</b> Zero Block	<b>Optimized Power</b>	
<b>2R</b> Small Round Canopy	Add 'O' to power type example: AEO, ATO...etc. <sup>3</sup>	
<b>2S</b> Small Square Canopy	<b>VodeNODE</b>	
<b>4R</b> Large Round Canopy	Add 'N' to power type for Flexible 1 to 1 Power	
<b>4S</b> Large Square Canopy	Add 'ON' to power type for Optimized Power example: AEN, ATN, AEON, ADON...etc. <sup>4</sup>	
	<b>ZZ</b> Other (please specify)	
	See <a href="#">Power Guide</a> for driver features & limitations.	

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

### NOTES & LIMITATIONS

- <sup>1</sup> 1.25" arm length is not available with Zero Block™ (0B).
- <sup>2</sup> For arms 18" and longer, wall-mounted systems include a cable tie-back.
- <sup>3</sup> Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.
- <sup>4</sup> VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.
- <sup>5</sup> 9' 18/3 Cord and Plug only available with Remote Power (RP).
- <sup>6</sup> Chicago Plenum not applicable for wall arm mounting.
- <sup>7</sup> 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.
- <sup>8</sup> Dual Hub comes with a powered and non-powered side. Refer to installation instructions for orientation restrictions.

Finish	Options
<b>AL</b> Clear Anodized	<b>0</b> None
<b>WH</b> White Powder Coat	<b>9</b> 9' 18/3 Cord and Plug <sup>5</sup>
<b>BL</b> Black Anodized	<b>CPP</b> Chicago Plenum Power <sup>6</sup>
<b>ZZ</b> Other (please specify)	

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

## 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](http://living-future.org/declare)

Click here to learn more: [International Living Future Institute](http://International Living Future Institute)

### 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](mailto:vodecares@vode.com) for confirmation regarding compliance for your specific project.



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

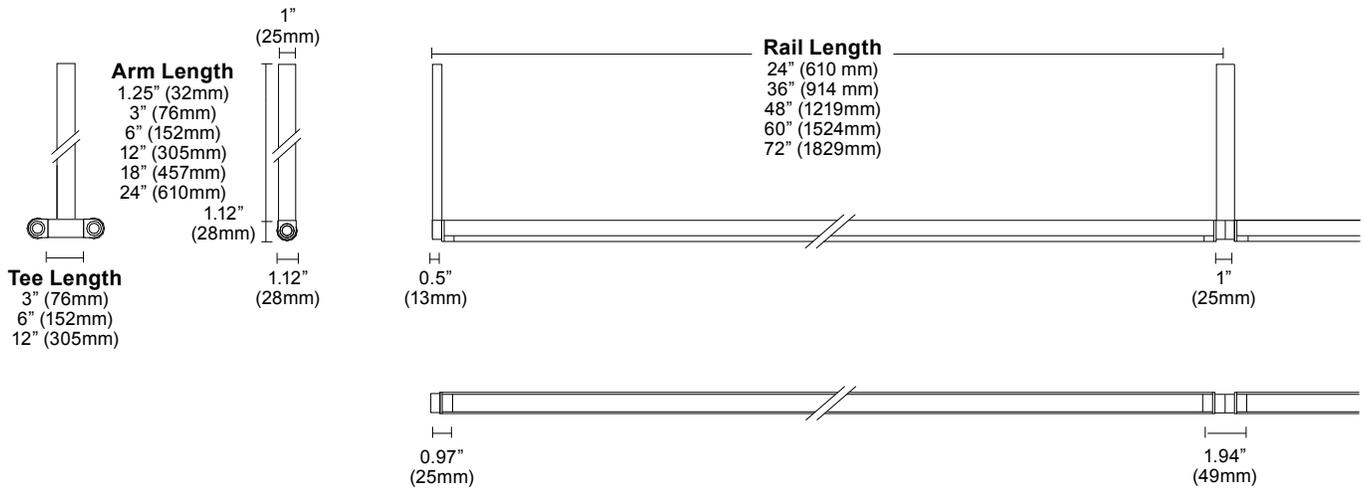
## Structure

Rail Lengths	24" (610mm) - 72" (1829mm). Modified lengths available. See <a href="#">Rail Length Chart</a> 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.

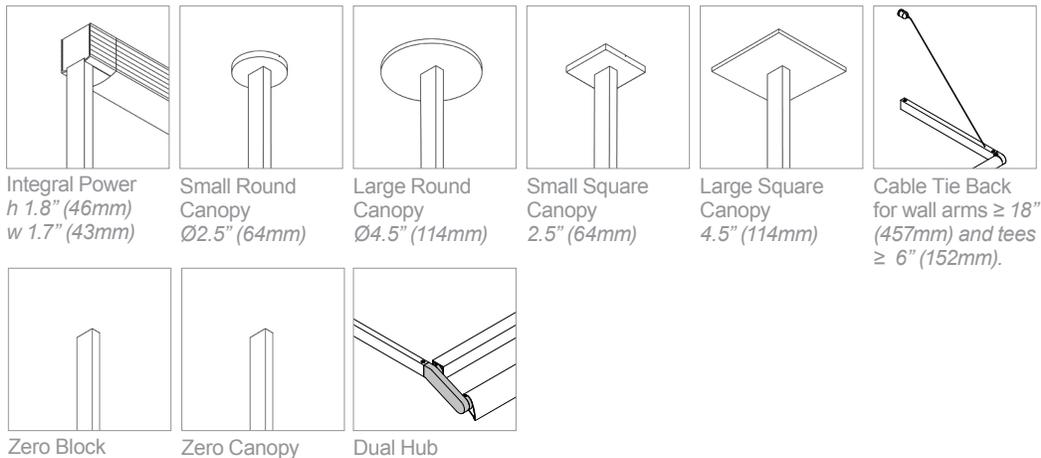
## Materials

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 (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)	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.

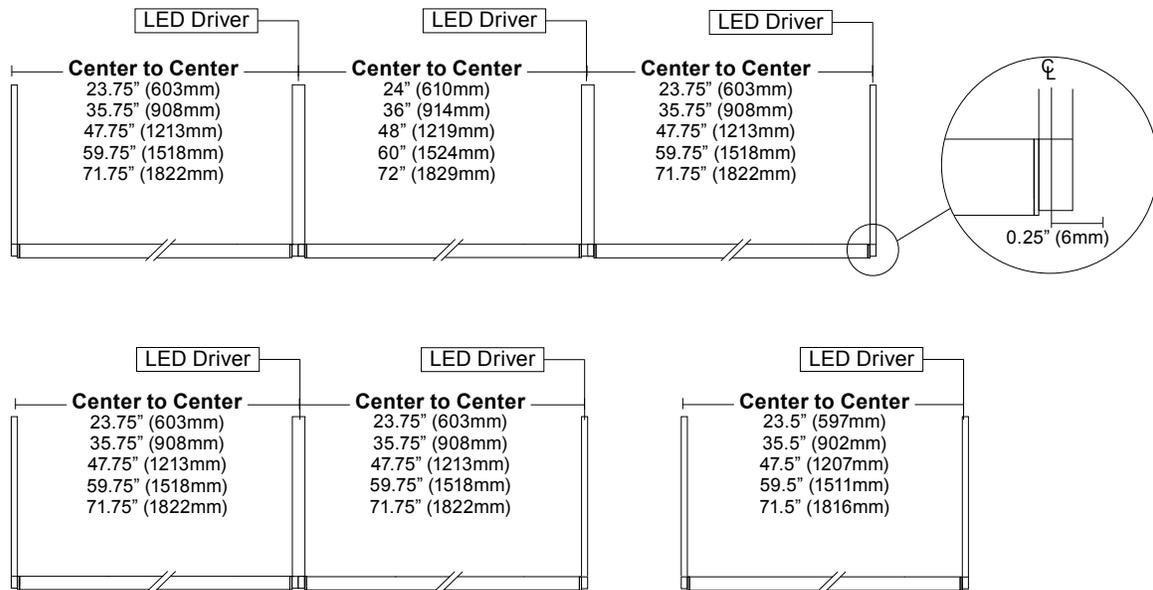
## Dimensions



## Mounting Options



## Layout



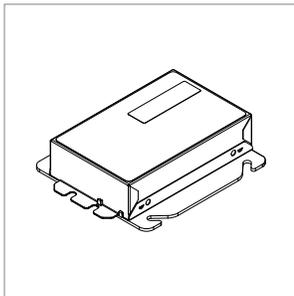
Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) [See Guide](#) for details.

## 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. <a href="#">See Power Guide</a> 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. <a href="#">See Power Guide</a> for details.

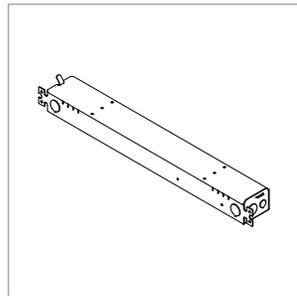
Vode power locations fall into two categories: integral and remote. Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult [Power Guide](#) to determine which type you will receive. Integral power is locating the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

## Remote Brick Power Housing



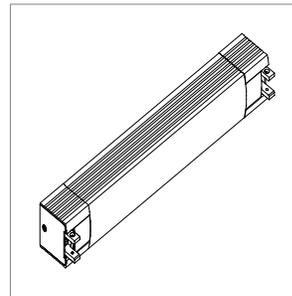
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in<sup>3</sup> (J-Box not provided). See [Tech Sheet](#) for details.

## Remote Linear Power Housing



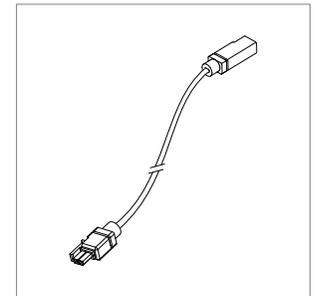
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies. See [Tech Sheet](#) for details.

## 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

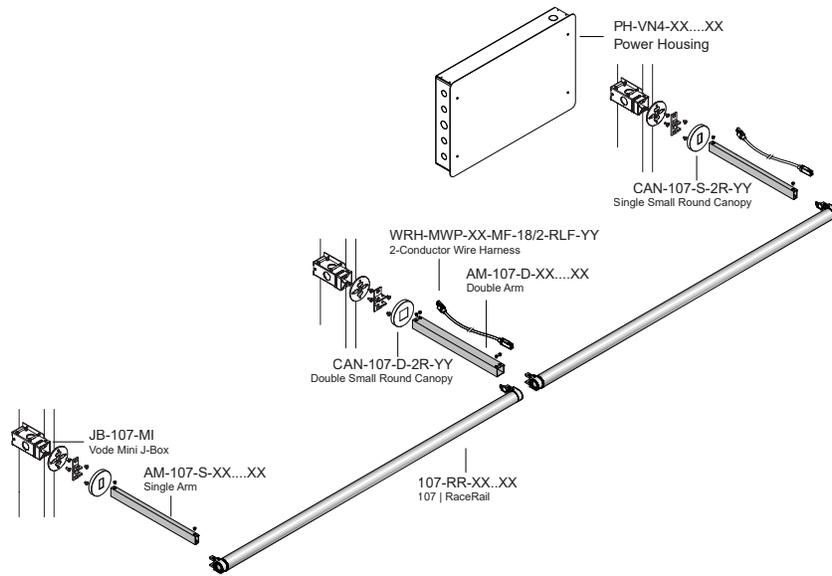


Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m). See [Tech Sheet](#) for details.

## Power and Controls

### Flexible 1 to 1 power

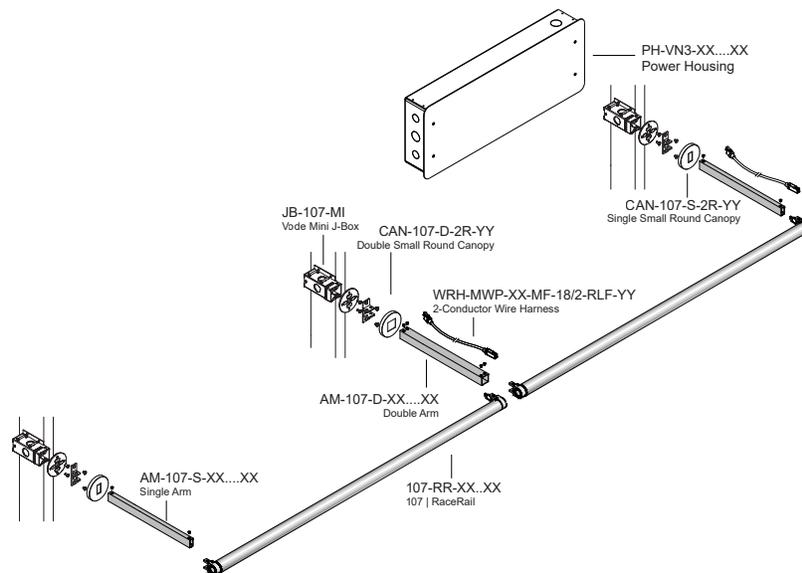
For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult [Power Guide](#)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

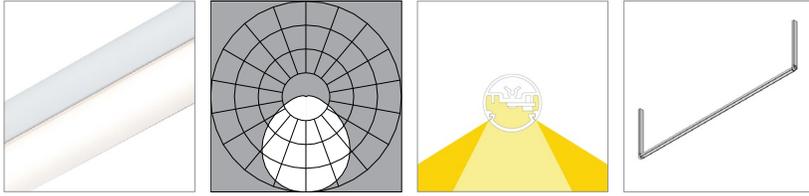


Note: Drawings not to scale, for reference only.

## Performance | Zipper Board Optics

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

## Diffuse, round (2)



L80 >60,000 hours

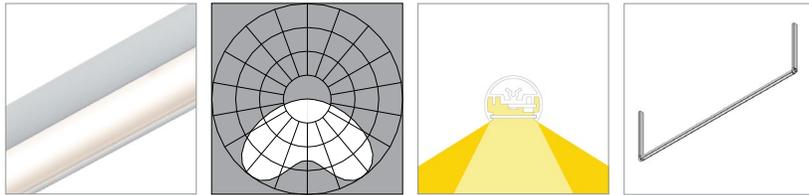
## 90 CRI (90min., 96 avg.)

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	114	115
Lumens per foot (305mm)	373	385	392	396
Watts per foot (305mm)	3.5	3.5	3.5	3.5

<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	125	129	132	133
Lumens per foot (305mm)	746	769	785	793
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	120	122	123
Lumens per foot (305mm)	1416	1461	1491	1506
Watts per foot (305mm)	12.3	12.3	12.3	12.3

## 120° Batwing (G1)



L80 >60,000 hours

## 90 CRI (90min., 96 avg.)

<b>Low Output (LO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	90
Lumens per foot (305mm)	315	325	332	335
Watts per foot (305mm)	3.8	3.8	3.8	3.8

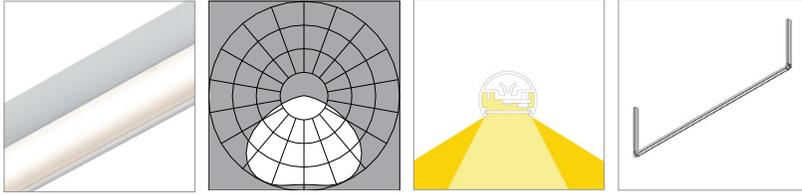
<b>Standard Output (SO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	112
Lumens per foot (305mm)	630	650	663	670
Watts per foot (305mm)	6.0	6.0	6.0	6.0

<b>High Output (HO)</b>	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	104
Lumens per foot (305mm)	1197	1235	1260	1273
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 is >60,000 hours

**90 CRI (90min., 96 avg.)**

	2700K	3000K	3500K	4000K
<b>Low Output (LO)</b>				
Efficacy - Lumens per Watt	93	96	98	99
Lumens per foot (305mm)	319	329	336	339
Watts per foot (305mm)	3.5	3.5	3.5	3.5
<b>Standard Output (SO)</b>				
Efficacy - Lumens per Watt	107	110	113	114
Lumens per foot (305mm)	639	659	672	679
Watts per foot (305mm)	6.0	6.0	6.0	6.0
<b>High Output (HO)</b>				
Efficacy - Lumens per Watt	99	103	105	106
Lumens per foot (305mm)	1213	1252	1277	1290
Watts per foot (305mm)	12.3	12.3	12.3	12.3

## Patent Marking

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