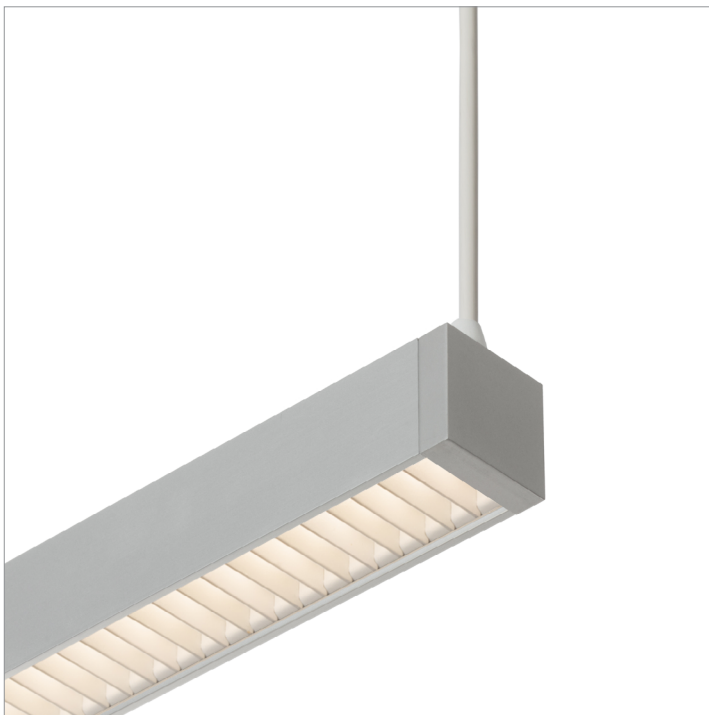




Spec Guide

BoxRail® | Ceiling Cable | 207

Incredible direct/indirect performance in Vode's small square form.



BoxRail 207

Benefits & Features

Minimal Profile

Double Rail performance in a small square profile, 1.14" (29mm) x 1.14" (29mm).

Superior Light Quality & Performance

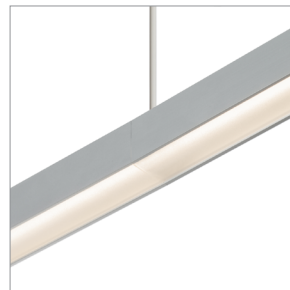
Output up to 3102 lm/ft (10,177 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.

High Performance Optics

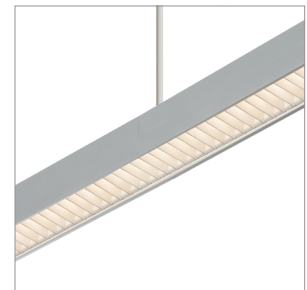
Break through Batwing lens designed for excellent fixture to fixture spacing.

Continuous Line of Light

Continuous line of light between rail sections.



Continuous line of light



Continuous line of light, baffle

Build Your Specification

207-BX	01			CC	>>
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System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Cable Length
207-BX BoxRail	01 Single Rail	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) 96 96" (2438mm) 120¹ 120" (3048mm) 144¹ 144" (3658mm) ZZ Other rail length or layout (please specify)	CC Ceiling Cable	<i>Field adjustable.</i> 48 48" cable (1219mm) 96 96" cable (2438mm) ZZ Other (please specify)

See [Rail Length Chart](#) for more details

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Power Location	Power Type*	Voltage	Emergency Power
Integral Power	Flexible 1 to 1 Power	1 120v 2 120v-277v X Not Yet Specified	0 No Emergency Power ZZ Emergency Power (specify requirements)
IP Integral Power	AE eldoLED 0-10v, 1.0% Dimming AT eldoLED 0-10v, 0.1% Dimming AD eldoLED DALI, 0.1% Dimming AX eldoLED DMX, 100-0% Dimming AH Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE1 AH2 Hi-lume 1% 2-wire LTEA2W (120V forward phase only)		
Remote Power	Optimized Power		
Small Round Canopy	AEO eldoLED 0-10v, 1.0% Dimming ATO eldoLED 0-10v, 0.1% Dimming ADO eldoLED DALI, 0.1% Dimming AXO eldoLED DMX, 100-0% dimming ZZ Other (please specify)		
Large Round Canopy			
2R25 25' (7.62m) Wire Harness 2R50 50' (15.24m) Wire Harness 2R75 75' (22.86m) Wire Harness 2R100 100' (30.48m) Wire Harness	4R25 25' (7.62m) Wire Harness 4R50 50' (15.24m) Wire Harness 4R75 75' (22.86m) Wire Harness 4R100 100' (30.48m) Wire Harness		

**See [Power Guide](#) for driver features & limitations.*

>>	Z			0	>>
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LED Type	Lumen Output*	Color Temperature	Optics	Sensors
Z Zipper Board™	LO Low Output SO Standard Output HO High Output ZZ Other (please specify) <i>See IES Files page for details.</i> <i>*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 <i>See Guide for details</i>	Direct/Indirect G1D1 Wide Batwing, up Diffuse, down G1WB Wide Batwing, up White Baffle, down G1BB Wide Batwing, up Black Baffle, down G1S1 Wide Batwing, up 40° Symmetric, down G1S2 Wide Batwing, up 60° Symmetric, down G1A1 Wide Batwing, up 85° Asymmetric, down G1G2 Wide Batwing, up 120° Flywing, down Direct Only D1 Diffuse, down WB White Baffle, down BB Black Baffle, down S1 40° Symmetric, down S2 60° Symmetric, down A1 85° Asymmetric, down G2 120° Flywing, down Indirect Only G1 Wide Batwing, up	0 None ZZ Sensor (specify requirements)

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Finish	Options
AL Clear Anodized	0 None
WH White Painted	9 9' 18/3 Cord and Plug ²
BL Black Anodized	
ZZ Other (please specify)	

NOTES & LIMITATIONS
¹ 120" and 144" Rail lengths not available by air freight, ground only.
² 9' 18/3 Cord and Plug only available with Remote Power (RP)

5 Year Limited Warranty. See full Vode warranty description [here](#) or at [vode.com](#).

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA.



Applications

General Interiors and Offices



Open Office Environment, Suspended Ceiling



Open Office Environment, Hard Surface Ceiling



Open Office Environment, Direct Only

Applications

Residential & Hospitality



Residence, Tiburon, CA



Residence, Tiburon, CA

Structure

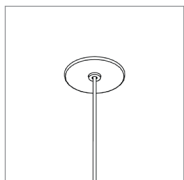
Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm), 96" (2438mm), 120" (3048mm), 144" (3658mm)
Rail Dimensions	1.14" (29mm) x 1.14" (29mm)
Construction	Extruded and machined 6063 aluminum
Mounting	Ceiling mount to jbox or driver housing
Cable Length	48" (1220mm) and 96" (2438mm) available. Field adjustable. Non-standard cable lengths available.
System Run Length	24" (610mm) minimum. Unlimited maximum length.
Operating Temperature	32°F to 104°F (0°C to 40°C)
Humidity	0-85%, non-condensing
System Weight	0.65 lbs per ft (0.29kg per 305mm) <i>Power supply and housing not included.</i>

Materials

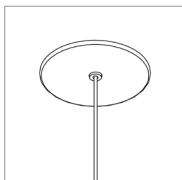
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant
Lens	High-impact extruded acrylic glass (PMMA)
Baffle	6063 aluminum, RoHS compliant painted finish
Suspension Cable	Ø4mm, 22/4 AWG, TPE jacket, FEP-insulated, Red List Approved
Power Cable	Ø4mm, 18/2 AWG, TPE jacket, FEP-insulated, Red List Approved
Cable Connectors	Unfilled white nylon, rate UL 94 V-0, halogen free, FEP overmold, Red List Approved
Remote Linear Power Housing (RLP)	20.7" x 2.375" x 0.054" formed galvanized steel
Remote Brick Power Housing (RBP)	4.32" x 3.37" x 0.078" galvanized steel mounting plate
Integral Power Housing	extruded and machined 6063 aluminum
Center Cable Suspension	3/64" aircraft cable

Mounting Options

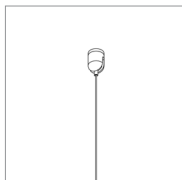
Remote Power



Small Round Canopy
Ø2.5" (51mm)

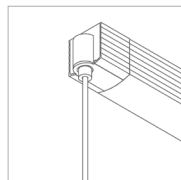


Large Round Canopy
Ø4.5" (114mm)

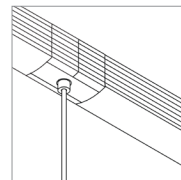


Center Support Cable
96" - 144" Rails Only
Center Support Cable for mounting to T-Bar tile available.

Integral Power (24"-72")



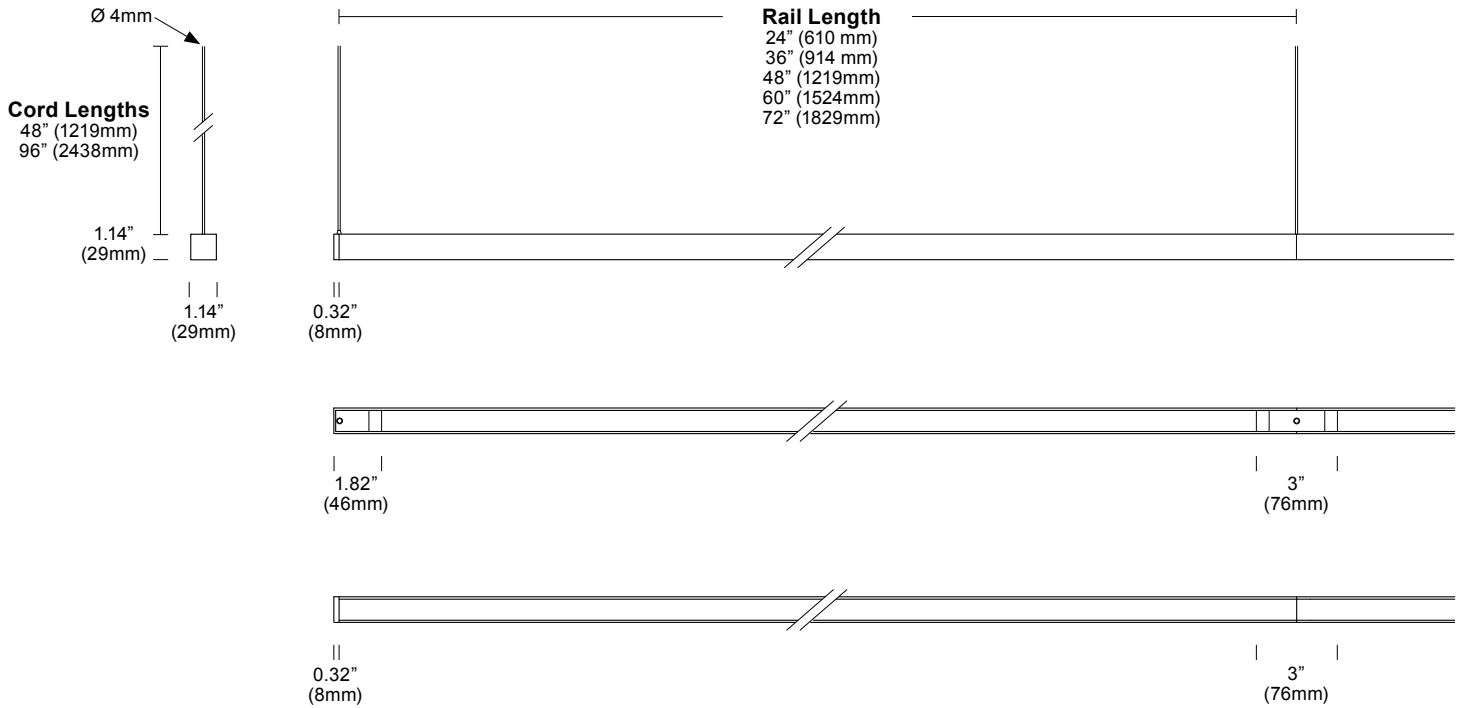
Integral Power (end)
h 1.8" (46mm)
w 1.7" (43mm)



Integral Power (joint)

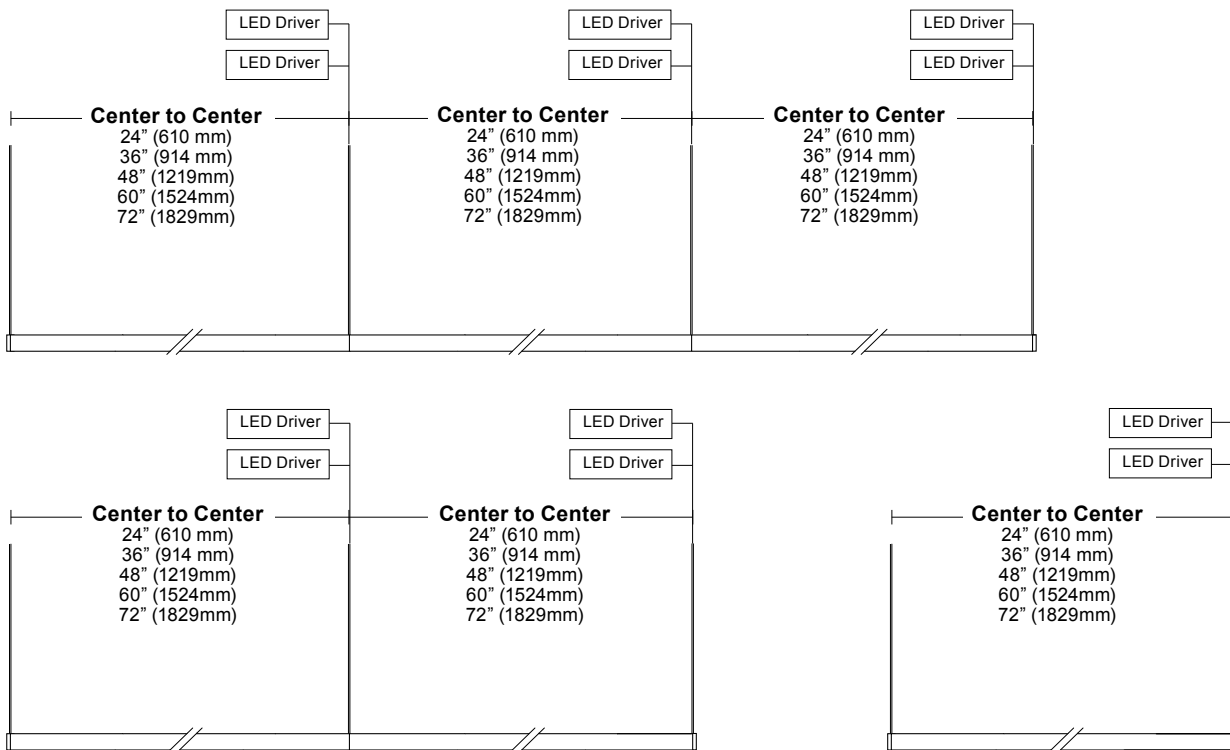
24" - 72" Rail Dimensions

All rail lengths are nominal. The actual overall dimension of each overall system length is +0.63 (16mm).



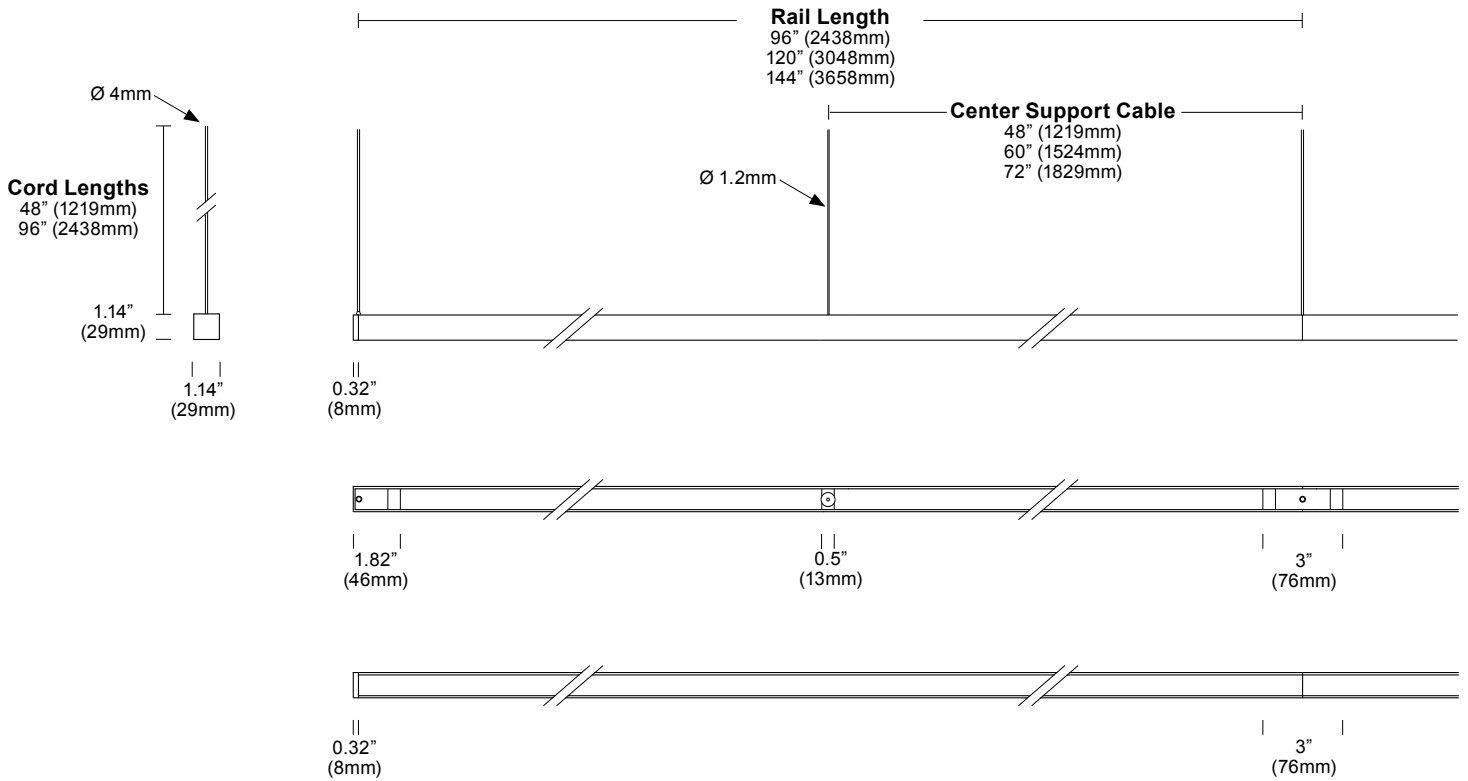
Layout

A typical power layout for dual direction fixtures is two drivers per rail. For single direction fixtures it is one driver per rail. Vode supplies one 25' (7.62m) wire harness per LED channel. Reference Vode's [Power Guide](#) for driver details. Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape)



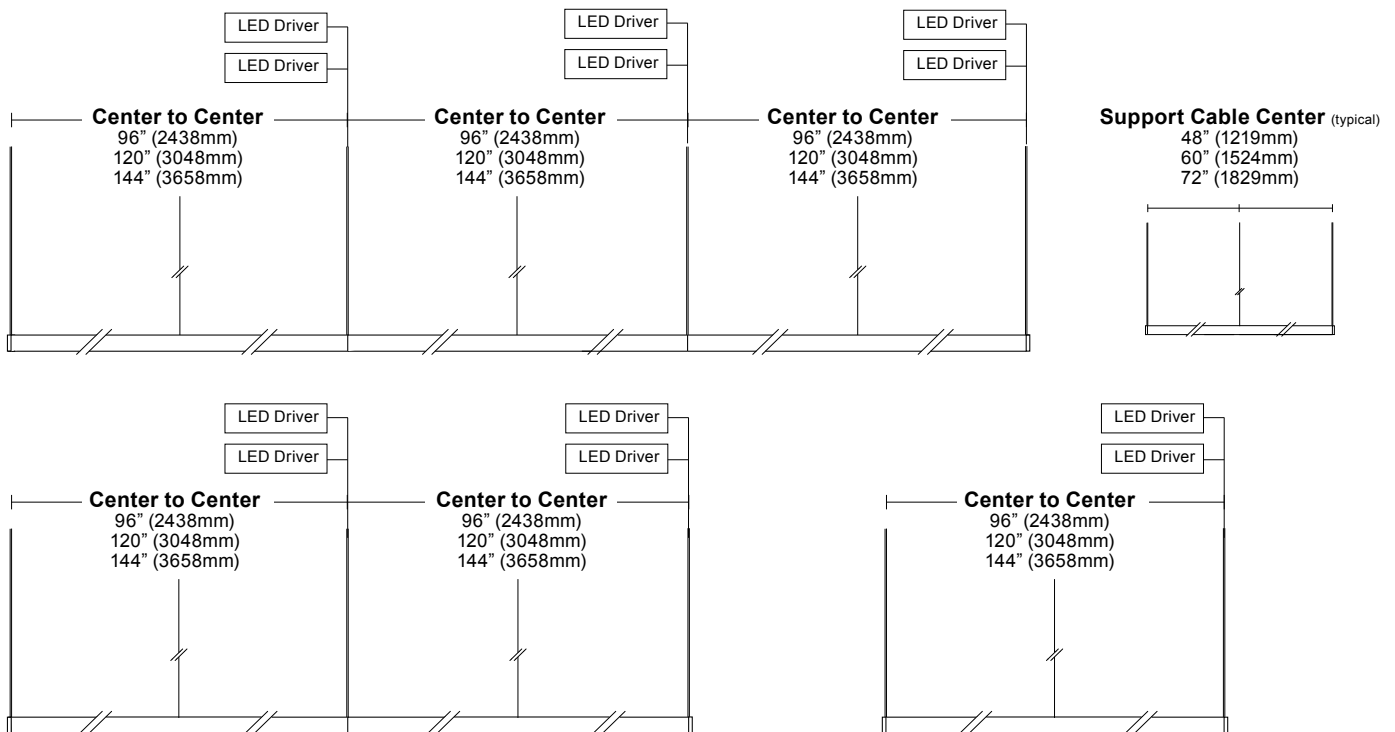
96" - 144" Rail Dimensions

All rail lengths are nominal. The actual overall dimension of each overall system length is +0.63 (16mm). All rail lengths over 96" (2438mm) come with a center support cable located in the center of the rail.



Layout

A typical power layout for dual direction fixtures is two drivers per rail. For single direction fixtures it is one driver per rail. Vode supplies one 25' (7.62m) wire harness per LED channel. Reference Vode's [Power Guide](#) for driver details. Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape)



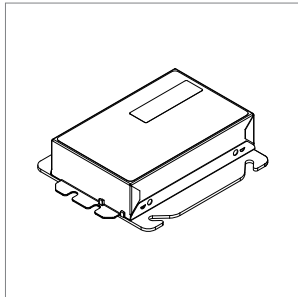
144" rail lengths not available in Shapes.

Power

Power Type	Class 2 (<60v output) constant current driver
Controls	Dimming (0.1%, 1%), 0-10v, DALI, DMX, Lutron Hi-lume 1% are available. See Power Guide for details.
Input Voltage	120v - 277v, 50/60hz
	Integral or remote power. Maximum remote distance up to 100' (30m) 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 into two housing styles: brick style and linear style. Consult the [Power Guide](#) to determine which type you will receive. Integral power is locating the power supply into the lighting fixture or mounting. Vode provides one 25' (7.52m) plenum rated wire harness per LED channel.

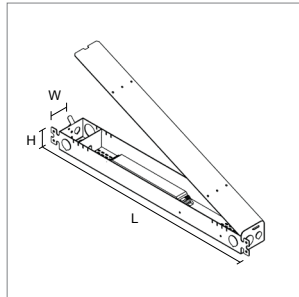
Remote Brick Power Housing



Mounting Plate: 4.32" x 3.37"

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.

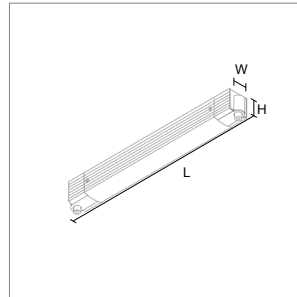
Remote Linear Power Housing



L: 20.7" (526mm)
H: 2.38" (61mm)
W: 2.53" (64mm)

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.

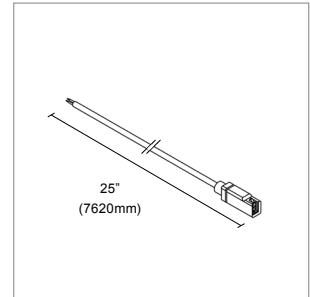
Integral Power



L: 24" - 72" (610mm - 1829mm)
H: 1.7" (43mm)
W: 1.8" (46mm)

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.

Two Conductor Wire Harness

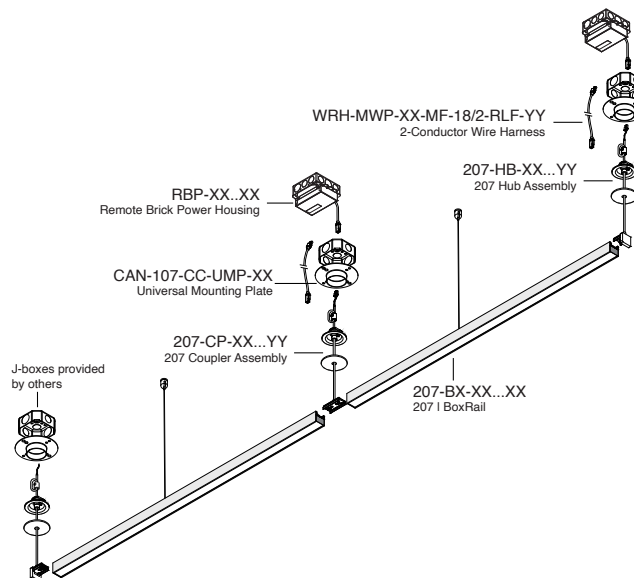


Low voltage wire harness connects driver to rail. One (1) pair of 18 AWG wires marked for negative and positive connections. Vode supplies one 25' (7.62m) wire harness per LED channel. Non-standard lengths available. See [Tech Sheet](#) for details.

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.



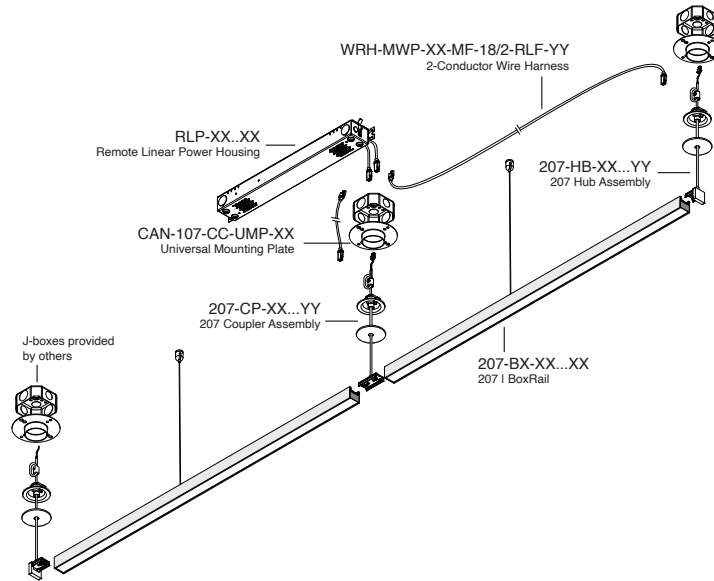
Note: Drawings not to scale, for reference only.

Power and Controls

Optimized Power

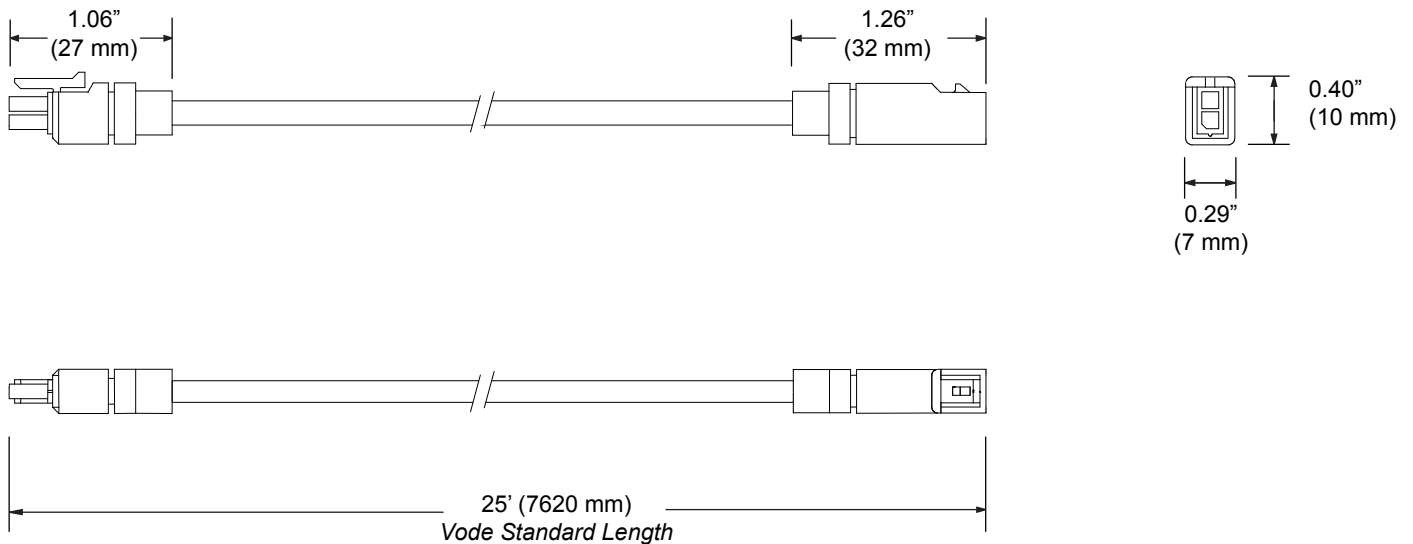
To optimize power, Vode configures specifications with drivers that have 2 or 4 outputs. Depending on system configurations and power requirements, up to 4 fixtures can be powered from a 4-output driver. Consult [Power Guide](#) to determine which type you will receive.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below.



Wire Harness

Low voltage wire harness connects driver to rail. Wire harness is 25' (7.6m) 18/2 AWG stranded wire with provided micro fit molex connectors on either end for quick and easy installation. Multiple harnesses can be combined for a total length of up to 100' (30.5m). Refer to Vode Power Guide for max remote distance based on power selection. Consult [Power Guide](#) to determine which type you will receive.



Note: Drawings not to scale, for reference only.

Finish

Clear Anodized Finish



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

White Painted Finish



White Rail, White Canopy/Integral Power, White Cable

Black Anodized Finish

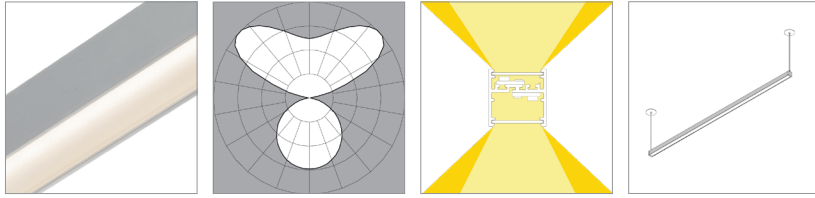


Black Rail, Black Canopy/Integral Power, Black Cable

Performance | Zipper LED

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Wide Batwing, up | Diffuse, down (G1D1)



L80 >60,000 hours

	2700K	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
		3000K	3500K	4000K	2700K	3000K	3500K	4000K	
Low Output (LO)									
Efficacy - Lumens per Watt	89	92	94	94	77	80	81	82	
Lumens per foot (305mm)	639	660	673	673	551	569	580	586	
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	

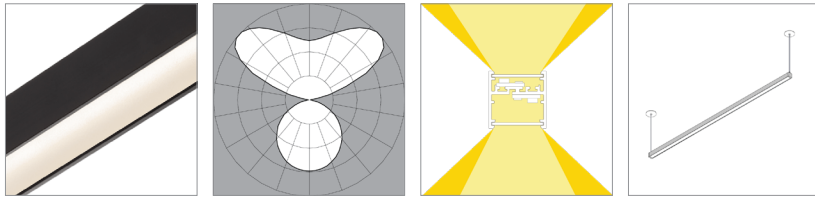
Standard Output (SO)

Efficacy - Lumens per Watt	102	105	107	107	88	91	92	93
Lumens per foot (305mm)	1279	1319	1346	1346	1102	1137	1160	1172
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7

High Output (HO)

Efficacy - Lumens per Watt	95	98	100	100	82	84	86	87
Lumens per foot (305mm)	2430	2506	2558	2558	2095	2161	2205	2227
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | Diffuse, down, black finish (G1D1-BL)



L80 >60,000 hours

	2700K	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
		3000K	3500K	4000K	2700K	3000K	3500K	4000K	
Low Output (LO)									
Efficacy - Lumens per Watt	78	80	82	82	67	69	71	71	
Lumens per foot (305mm)	555	572	584	584	478	493	503	508	
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	

Standard Output (SO)

Efficacy - Lumens per Watt	88	91	93	93	76	79	81	81
Lumens per foot (305mm)	1109	1144	1168	1168	956	987	1007	1017
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7

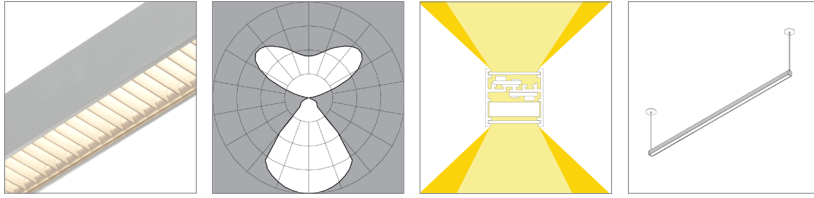
High Output (HO)

Efficacy - Lumens per Watt	82	85	87	87	71	73	75	75
Lumens per foot (305mm)	2108	2174	2219	2219	1817	1875	1913	1932
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

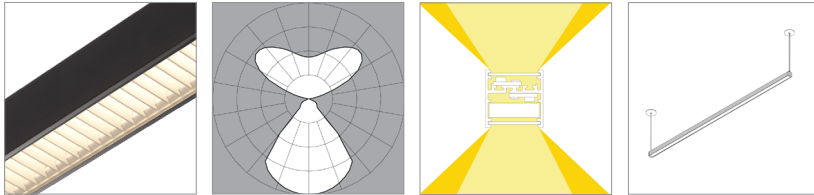
Wide Batwing, up | White Baffle, down (G1WB)



L80 >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	87	90	91	91	75	77	79	80
Lumens per foot (305mm)	621	640	653	653	535	552	563	569
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Standard Output (SO)								
Efficacy - Lumens per Watt	99	102	104	104	85	88	89	91
Lumens per foot (305mm)	1241	1280	1307	1307	1070	1104	1126	1138
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
High Output (HO)								
Efficacy - Lumens per Watt	92	95	97	97	79	82	84	84
Lumens per foot (305mm)	2358	2433	2483	2483	2033	2097	2140	2162
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | White Baffle, down, black finish (G1WB-BL)



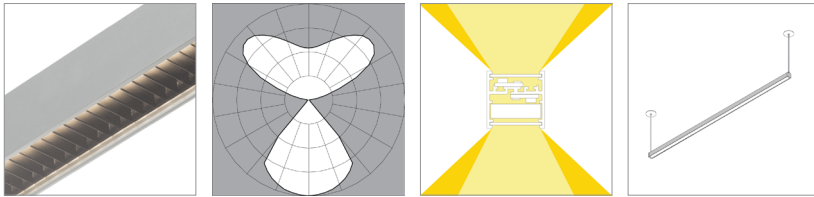
L80 >60,000 hours

	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	77	80	81	81	67	69	70	71
Lumens per foot (305mm)	551	569	580	580	475	490	500	505
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Standard Output (SO)								
Efficacy - Lumens per Watt	88	91	92	92	76	78	80	81
Lumens per foot (305mm)	1103	1137	1161	1161	951	981	1001	1011
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7
High Output (HO)								
Efficacy - Lumens per Watt	82	84	86	86	71	73	74	75
Lumens per foot (305mm)	2095	2161	2205	2205	1806	1863	1901	1920
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

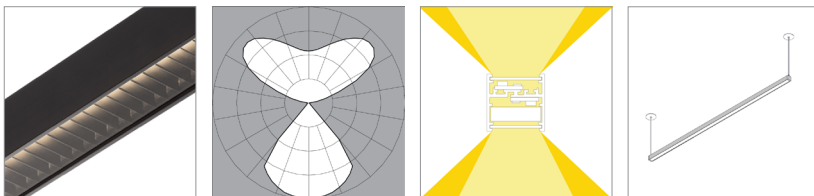
Wide Batwing, up | Black Baffle, down (G1BB)



L80 >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	70	72	73	73	60	62	63	64
Lumens per foot (305mm)	497	513	523	523	429	442	451	456
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Standard Output (SO)								
Efficacy - Lumens per Watt	79	82	83	83	68	71	72	73
Lumens per foot (305mm)	994	1026	1047	1047	857	884	902	911
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7
High Output (HO)								
Efficacy - Lumens per Watt	74	76	78	78	64	66	67	68
Lumens per foot (305mm)	1889	1949	1989	1989	1629	1680	1714	1732
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | Black Baffle, down, black finish (G1BB-BL)



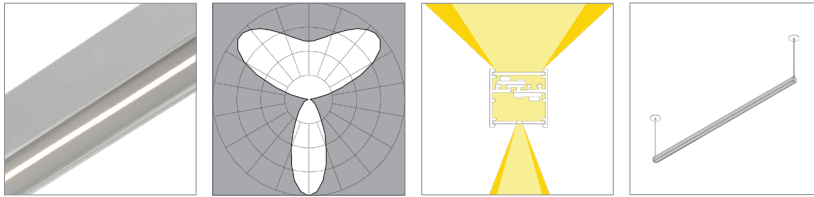
L80 >60,000 hours

	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	66	68	69	69	57	59	60	60
Lumens per foot (305mm)	469	484	494	494	404	417	426	430
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Standard Output (SO)								
Efficacy - Lumens per Watt	75	77	79	79	65	67	68	69
Lumens per foot (305mm)	938	968	987	987	809	834	851	860
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7
High Output (HO)								
Efficacy - Lumens per Watt	70	72	73	73	60	62	63	64
Lumens per foot (305mm)	1782	1839	1876	1876	1537	1585	1617	1634
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Wide Batwing, up | 40° Symmetric, down (G1S1)



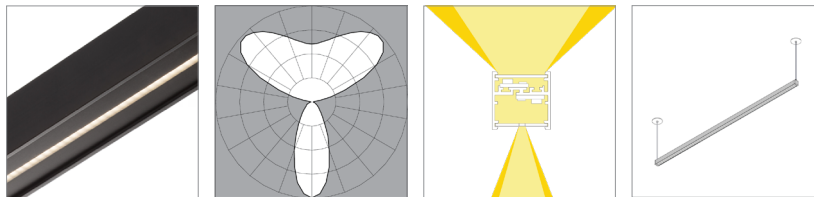
L80 >60,000 hours

	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	76	79	80	80	66	68	69	70
Lumens per foot (305mm)	544	561	573	573	469	484	494	499
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

Standard Output (SO)								
Efficacy - Lumens per Watt	87	89	91	91	75	77	79	79
Lumens per foot (305mm)	1088	1123	1146	1146	938	968	988	998
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7

High Output (HO)								
Efficacy - Lumens per Watt	81	83	85	85	70	72	73	74
Lumens per foot (305mm)	2068	2133	2177	2177	1783	1839	1877	1895
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | 40° Symmetric, down, black finish (G1S1-BL)



L80 >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	64	66	67	67	55	57	58	58
Lumens per foot (305mm)	455	469	479	479	392	405	413	417
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

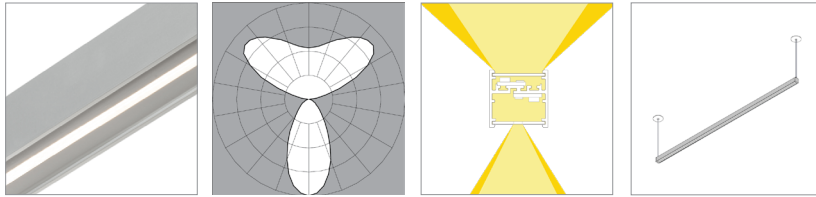
Standard Output (SO)								
Efficacy - Lumens per Watt	73	75	76	76	63	65	66	67
Lumens per foot (305mm)	910	939	958	958	784	809	826	834
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7

High Output (HO)								
Efficacy - Lumens per Watt	68	70	71	71	58	60	61	62
Lumens per foot (305mm)	1729	1784	1820	1820	1490	1538	1569	1585
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Wide Batwing, up | 60° Symmetric, down (G1S2)



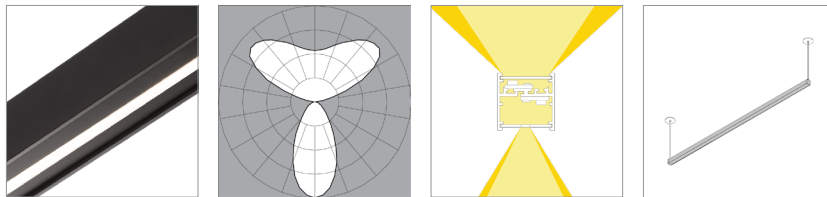
L80 >60,000 hours

	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	83	86	88	88	72	74	76	76
Lumens per foot (305mm)	595	613	626	626	513	529	540	545
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

Standard Output (SO)								
Efficacy - Lumens per Watt	95	98	100	100	82	84	86	87
Lumens per foot (305mm)	1189	1227	1252	1252	1025	1058	1079	1090
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7

High Output (HO)								
Efficacy - Lumens per Watt	88	91	93	93	76	78	80	81
Lumens per foot (305mm)	2260	2331	2379	2379	1948	2010	2051	2071
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | 60° Symmetric, down, black finish (G1S2-BL)



L80 >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	67	69	70	70	57	59	60	61
Lumens per foot (305mm)	475	490	500	500	409	422	431	435
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

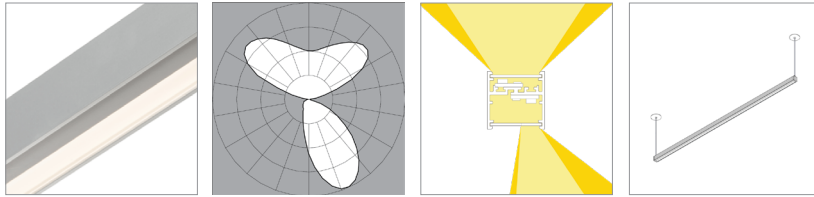
Standard Output (SO)								
Efficacy - Lumens per Watt	76	78	80	80	65	67	69	69
Lumens per foot (305mm)	949	979	999	999	818	844	861	870
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7

High Output (HO)								
Efficacy - Lumens per Watt	70	73	74	74	61	63	64	65
Lumens per foot (305mm)	1804	1861	1899	1899	1555	1604	1637	1653
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Wide Batwing, up | 85° Asymmetric, down (G1A1)



L80 >60,000 hours

80 CRI (80min., 84 avg.)

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	88	88	72	75	76	77
Lumens per foot (305mm)	600	619	632	632	517	534	545	550
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

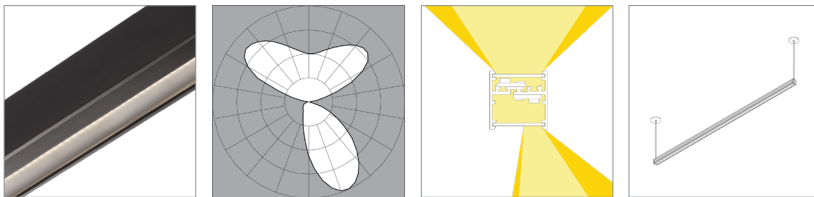
Standard Output (SO)

Efficacy - Lumens per Watt	96	99	101	101	82	85	87	88
Lumens per foot (305mm)	1200	1238	1263	1263	1035	1067	1089	1100
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7

High Output (HO)

Efficacy - Lumens per Watt	89	92	94	94	77	79	81	82
Lumens per foot (305mm)	2281	2353	2401	2401	1966	2028	2069	2090
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | 85° Aymmetric, down, black finish (G1A1-BL)



L80 >60,000 hours

80 CRI (80min., 84 avg.)

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	70	72	73	73	60	62	63	64
Lumens per foot (305mm)	498	514	524	524	429	443	452	456
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

Standard Output (SO)

Efficacy - Lumens per Watt	79	82	83	83	68	71	72	73
Lumens per foot (305mm)	996	1027	1048	1048	858	885	903	912
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7

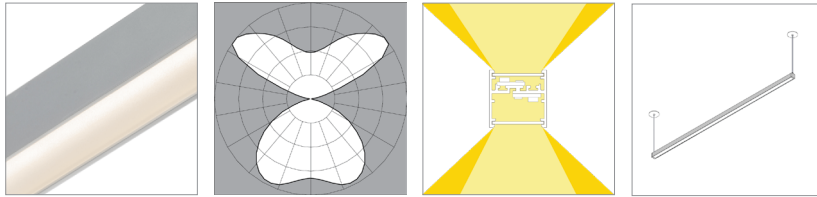
High Output (HO)

Efficacy - Lumens per Watt	74	76	78	78	64	66	67	68
Lumens per foot (305mm)	1892	1951	1991	1991	1631	1682	1717	1734
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Wide Batwing, up | 120° Flywing, down (G1G2)



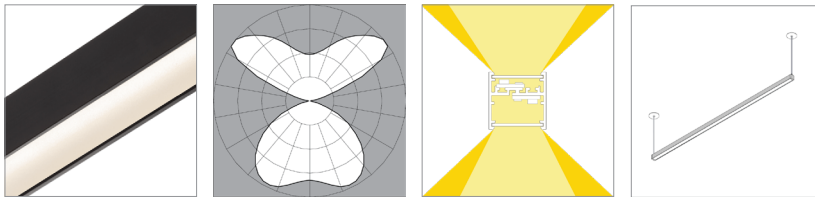
L80 >60,000 hours

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	108	112	114	114	93	96	98	99
Lumens per foot (305mm)	775	800	816	816	669	690	704	711
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

Standard Output (SO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	123	127	130	130	106	110	113	113
Lumens per foot (305mm)	1551	1600	1633	1633	1337	1379	1407	1421
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7

High Output (HO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	115	118	121	121	99	102	104	105
Lumens per foot (305mm)	2947	3040	3102	3102	2540	2621	2674	2701
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Wide Batwing, up | 120° Flywing, down, black finish (G1G2-BL)



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	102	105	107	107	88	90	92	93
Lumens per foot (305mm)	726	749	765	765	626	646	659	666
Watts per foot (305mm)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

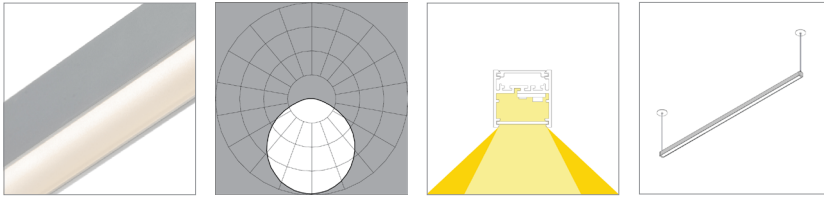
Standard Output (SO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	119	122	122	100	103	106	106
Lumens per foot (305mm)	1453	1499	1529	1529	1252	1292	1318	1331
Watts per foot (305mm)	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.7

High Output (HO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	111	113	113	93	96	98	99
Lumens per foot (305mm)	2760	2847	2905	2905	2379	2455	2505	2530
Watts per foot (305mm)	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Diffuse, down (D1)



L80 >60,000 hours

80 CRI (80min., 84 avg.)

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	79	65	67	68	69
Lumens per foot (305mm)	268	277	282	282	231	238	243	246
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

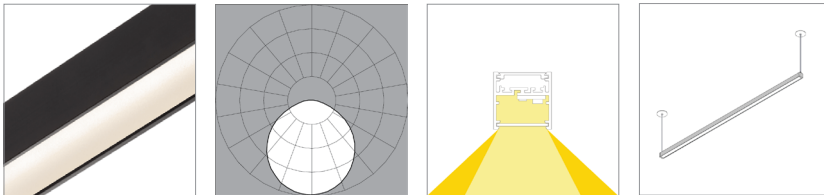
Standard Output (SO)

Efficacy - Lumens per Watt	85	88	90	90	74	76	78	78
Lumens per foot (305mm)	536	553	564	564	462	477	487	491
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	80	82	84	84	69	71	72	73
Lumens per foot (305mm)	1019	1051	1072	1072	878	906	924	934
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Diffuse, down, black finish (D1-BL)



L80 >60,000 hours

80 CRI (80min., 84 avg.)

90 CRI (90min., 96 avg.)

Low Output (LO)	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	58	60	62	62	50	52	53	54
Lumens per foot (305mm)	208	215	219	219	180	185	189	191
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

Standard Output (SO)

Efficacy - Lumens per Watt	67	69	70	70	57	59	60	61
Lumens per foot (305mm)	417	430	439	439	359	371	378	382
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

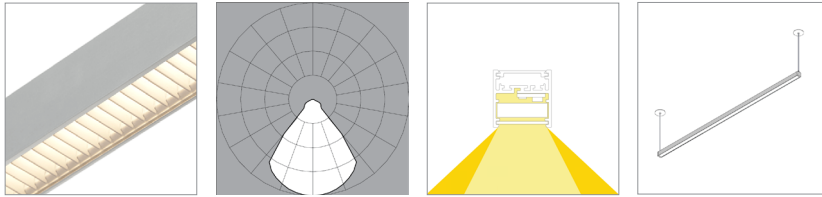
High Output (HO)

Efficacy - Lumens per Watt	62	64	65	65	53	55	56	57
Lumens per foot (305mm)	792	817	834	834	683	705	719	726
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

White Baffle, down (WB)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	69	71	72	72	59	61	62	63	
Lumens per foot (305mm)	246	253	259	259	212	218	223	225	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

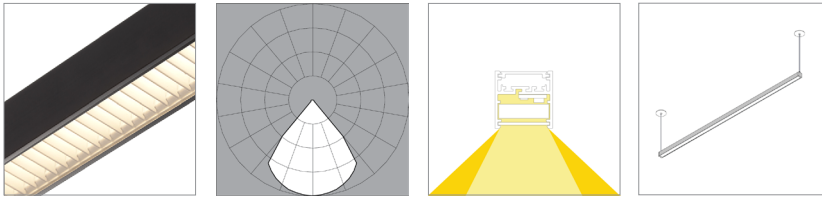
Standard Output (SO)

Efficacy - Lumens per Watt	78	81	82	82	68	70	71	72
Lumens per foot (305mm)	491	507	517	517	423	437	446	450
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	73	75	77	77	63	65	66	67
Lumens per foot (305mm)	933	963	982	982	805	830	847	855
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

White Baffle, down, black finish (WB-BL)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	56	58	59	59	49	50	51	52	
Lumens per foot (305mm)	201	207	212	212	173	179	182	184	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

Standard Output (SO)

Efficacy - Lumens per Watt	64	66	68	68	55	57	58	59
Lumens per foot (305mm)	402	415	423	423	347	358	365	368
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

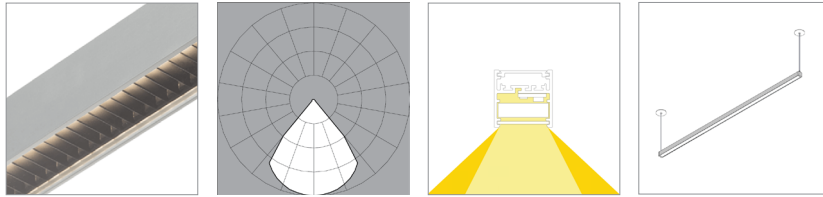
High Output (HO)

Efficacy - Lumens per Watt	60	62	63	63	52	53	54	55
Lumens per foot (305mm)	764	788	804	804	659	679	693	700
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Black Baffle, down (BB)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	35	36	37	37	30	31	32	32	
Lumens per foot (305mm)	125	129	131	131	107	111	113	114	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

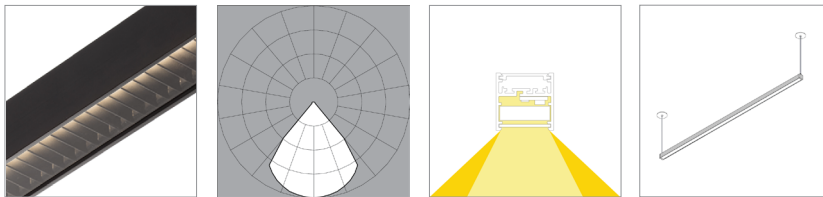
Standard Output (SO)

Efficacy - Lumens per Watt	40	41	42	42	35	36	36	37
Lumens per foot (305mm)	249	257	262	262	215	222	226	228
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	37	38	39	39	32	33	34	34
Lumens per foot (305mm)	474	488	498	498	408	421	430	434
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Black Baffle, down, black finish (BB-BL)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	35	36	37	37	30	31	32	32	
Lumens per foot (305mm)	124	128	131	131	107	111	113	114	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

Standard Output (SO)

Efficacy - Lumens per Watt	40	41	42	42	34	36	36	37
Lumens per foot (305mm)	249	257	262	262	215	221	226	228
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

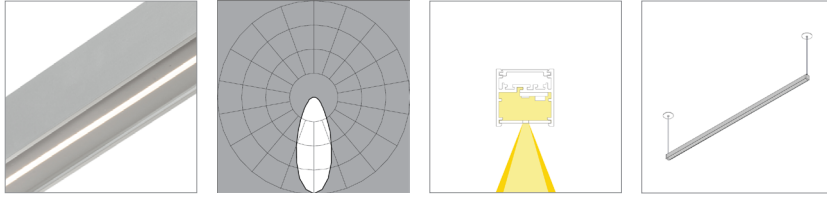
High Output (HO)

Efficacy - Lumens per Watt	37	38	39	39	32	33	34	34
Lumens per foot (305mm)	473	488	498	498	408	420	429	433
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

40° Symmetric, down (S1)



L80 >60,000 hours

	2700K	80 CRI (80min., 84 avg.)			2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K		3000K	3500K	4000K
Low Output (LO)								
Efficacy - Lumens per Watt	47	48	49	49	40	41	42	43
Lumens per foot (305mm)	166	171	174	174	143	147	150	152
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

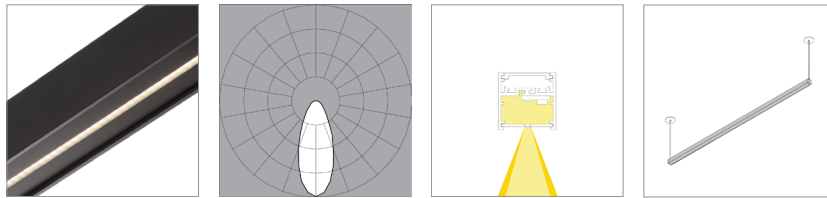
Standard Output (SO)

Efficacy - Lumens per Watt	53	55	56	56	46	47	48	49
Lumens per foot (305mm)	331	342	349	349	285	294	301	304
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	49	51	52	52	43	44	45	45
Lumens per foot (305mm)	629	649	662	662	542	560	571	577
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

40° Symmetric, down, black finish (S1-BL)



L80 >60,000 hours

	2700K	80 CRI (80min., 84 avg.)			2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K		3000K	3500K	4000K
Low Output (LO)								
Efficacy - Lumens per Watt	34	35	36	36	29	30	31	31
Lumens per foot (305mm)	120	124	126	126	103	106	109	110
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

Standard Output (SO)

Efficacy - Lumens per Watt	38	40	40	40	33	34	35	35
Lumens per foot (305mm)	239	247	252	252	206	213	217	219
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

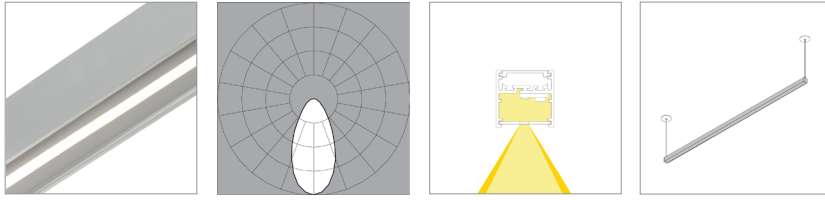
High Output (HO)

Efficacy - Lumens per Watt	36	37	38	38	31	32	33	33
Lumens per foot (305mm)	455	469	479	479	392	405	413	417
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

60° Symmetric, down (S2)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	60	62	64	64	52	54	55	55	
Lumens per foot (305mm)	215	222	226	226	185	191	195	197	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

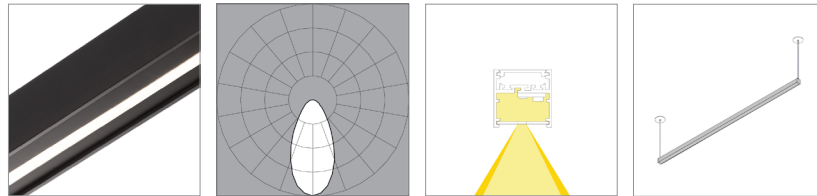
Standard Output (SO)

Efficacy - Lumens per Watt	69	71	72	72	59	61	62	63
Lumens per foot (305mm)	430	444	453	453	371	383	391	394
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	64	66	67	67	55	57	58	59
Lumens per foot (305mm)	818	843	861	861	705	727	742	749
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

60° Symmetric, down, black finish (S2-BL)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	40	41	42	42	34	35	36	36	
Lumens per foot (305mm)	141	145	148	148	121	125	128	129	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

Standard Output (SO)

Efficacy - Lumens per Watt	45	46	47	47	39	40	41	41
Lumens per foot (305mm)	281	290	296	296	242	250	255	258
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

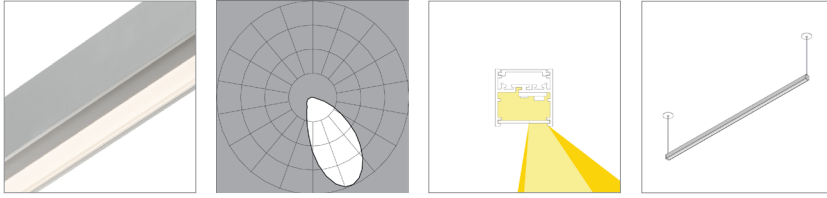
High Output (HO)

Efficacy - Lumens per Watt	42	43	44	44	36	37	38	38
Lumens per foot (305mm)	534	551	563	563	461	475	485	490
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

85° Asymmetric, down (A1)



L80 >60,000 hours

	2700K	80 CRI (80min., 84 avg.)			2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K		3000K	3500K	4000K
Low Output (LO)								
Efficacy - Lumens per Watt	64	66	67	67	55	57	58	58
Lumens per foot (305mm)	227	234	239	239	196	202	206	208
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

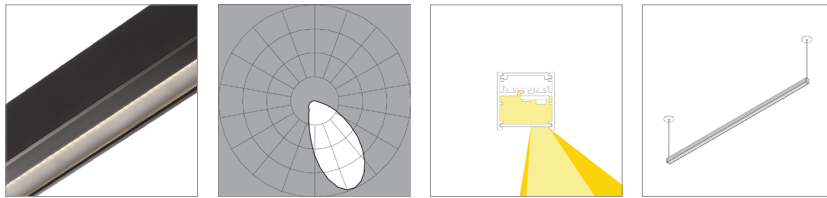
Standard Output (SO)

Efficacy - Lumens per Watt	72	75	76	76	62	64	66	66
Lumens per foot (305mm)	454	468	478	478	391	404	412	416
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	67	69	71	71	58	60	61	62
Lumens per foot (305mm)	862	889	907	907	743	767	782	790
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

85° Asymmetric, down, black finish (A1-BL)



L80 >60,000 hours

	2700K	80 CRI (80min., 84 avg.)			2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K		3000K	3500K	4000K
Low Output (LO)								
Efficacy - Lumens per Watt	46	48	49	49	40	41	42	43
Lumens per foot (305mm)	165	170	174	174	142	147	150	151
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

Standard Output (SO)

Efficacy - Lumens per Watt	53	54	56	56	46	47	48	48
Lumens per foot (305mm)	330	341	348	348	285	294	300	303
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

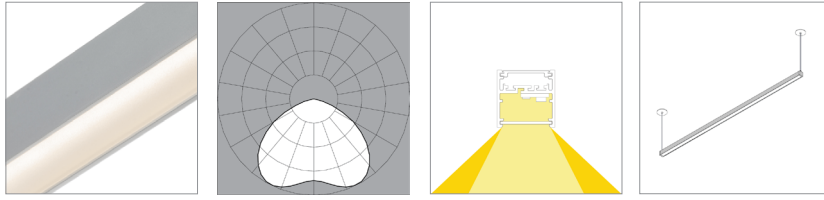
High Output (HO)

Efficacy - Lumens per Watt	49	51	52	52	42	44	45	45
Lumens per foot (305mm)	627	647	660	660	541	558	569	575
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

120° Flywing, down (G2)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	110	114	116	116	95	98	100	101	
Lumens per foot (305mm)	395	408	416	416	341	351	359	362	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

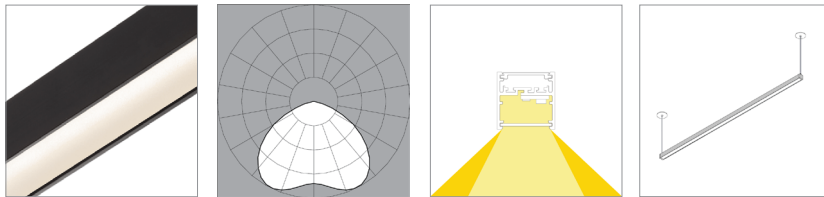
Standard Output (SO)

Efficacy - Lumens per Watt	126	130	132	132	108	112	114	115
Lumens per foot (305mm)	790	815	832	832	681	703	717	724
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	117	121	123	123	101	104	106	107
Lumens per foot (305mm)	1502	1549	1581	1581	1294	1335	1363	1376
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

120° Flywing, down, black finish (G2-BL)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	108	111	113	113	93	96	98	99	
Lumens per foot (305mm)	385	397	405	405	332	342	349	353	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

Standard Output (SO)

Efficacy - Lumens per Watt	122	126	129	129	106	109	111	112
Lumens per foot (305mm)	770	794	810	810	663	684	698	705
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

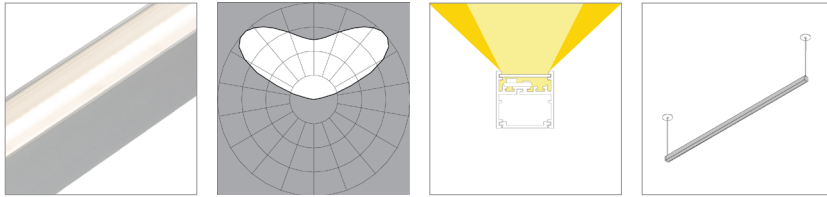
High Output (HO)

Efficacy - Lumens per Watt	114	117	120	120	98	101	103	104
Lumens per foot (305mm)	1462	1508	1539	1539	1261	1300	1327	1340
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Performance | Zipper LED Continued

Zipper Board has 72 diodes per foot (305mm). Testing based on a 4' rail section. Lumen measurement complies with IES-LM-79-08 testing procedures.

Wide Batwing, up (G1)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	104	107	109	109	90	92	94	95	
Lumens per foot (305mm)	371	383	391	391	320	330	337	340	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

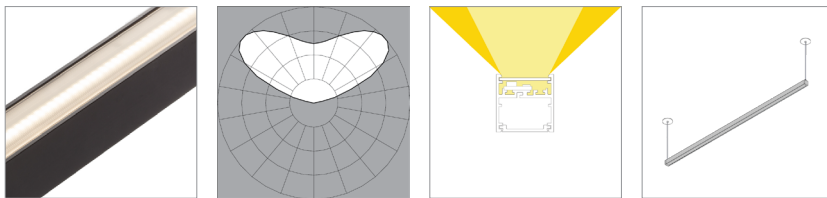
Standard Output (SO)

Efficacy - Lumens per Watt	118	122	124	124	102	105	107	108
Lumens per foot (305mm)	743	766	782	782	640	661	674	681
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	110	113	116	116	95	98	100	101
Lumens per foot (305mm)	1411	1456	1485	1485	1217	1255	1281	1293
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

Wide Batwing, up, black finish (G1-BL)



L80 >60,000 hours

Low Output (LO)	2700K	80 CRI (80min., 84 avg.)				2700K	90 CRI (90min., 96 avg.)		
		3000K	3500K	4000K	3000K		3500K	4000K	
Efficacy - Lumens per Watt	93	96	98	98	80	83	84	85	
Lumens per foot (305mm)	333	343	350	350	287	296	302	305	
Watts per foot (305mm)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	

Standard Output (SO)

Efficacy - Lumens per Watt	106	109	111	111	91	94	96	97
Lumens per foot (305mm)	665	686	700	700	574	592	604	610
Watts per foot (305mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

High Output (HO)

Efficacy - Lumens per Watt	99	102	104	104	85	88	89	90
Lumens per foot (305mm)	1264	1304	1331	1331	1090	1124	1147	1159
Watts per foot (305mm)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9

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