



Spec Guide

RaceRail® | Stack | 117

Direct lighting for library stack and display applications.



RaceRail, direct or indirect, 370° rotation.

Benefits & Features

Minimal, Robust Design

Round profile, Ø1.12" (28mm), 370° rotation. Round profile, Ø1.12" (28mm), 370° rotation.

Superior Light Quality & Performance

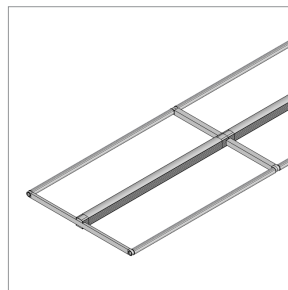
Output up to 1507 lm/ft (4943 lm/m) (HO), 132 lm/W (SO). 80 or 90 CRI & tunable white (2200K-6500K) available.

Adaptable Power Modules

Integral Power, full range dimming power for all protocols.

Better Optics & Beam Control Options

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



Double-sided



Single-sided

Build Your Specification

117-RR					ST	18
System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length	
117-RR RaceRail	K1 Single-sided K2 Double-sided	Specify overall system length in ft/in or M/mm.	24 24" (610mm) 36 36" (914mm) 48 48" (1219mm) 60 60" (1524mm) 72 72" (1829mm) ZZ Other rail length or layout (please specify)	ST Stack	18 18" arm (457mm) ZZ Other (please specify)	

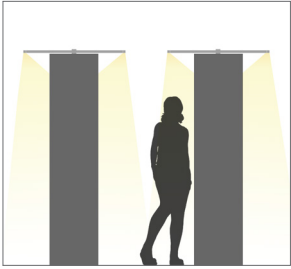
IP			0	Z
Power Location	Power Type*	Voltage	Emergency Power	LED Type
Integral Power IP Integral Power	AE eldoLED 0-10v, 1.0% Dimming AT eldoLED 0-10v, 0.1% Dimming AD eldoLED DALI, 0.1% Dimming AX eldoLED DMX, 100-0% Dimming AH Lutron Hi-lume 1% EcoSystem (LDE1) AH2 Lutron Hi-lume 1% 2-wire (LTE) AH3 Lutron Hi-lume 1% EcoSystem/3-wire (L3D) ZZ Other (please specify)	1 120v 2 120v-277v X Not Yet Specified	0 No Emergency Power ZZ Emergency Power (specify requirements)	Z Zipper Board™

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

IP				0
Lumen Output*	Color Temperature	Optics	Finish	Options
LO Low Output SO Standard Output HO High Output ZZ Other (please specify) <i>See IES Files page for details.</i>	80+ CRI 27 2700K 30 3000K 35 3500K 40 4000K 90+ CRI 279 2700K 309 3000K 359 3500K 409 4000K ZZ Other (please specify)	Zipper Board (Z) 2 Diffuse, round G1 120° Batwing G2 120° FlyWing	AL Clear Anodized WH White Painted BL Black Anodized ZZ Other (please specify)	0 None 9 9' 18/3 Cord and Plug ZZ Other (please specify)
<i>*See Driver Guide for driver features & limitations.</i>				

Applications

Library Stack and Display



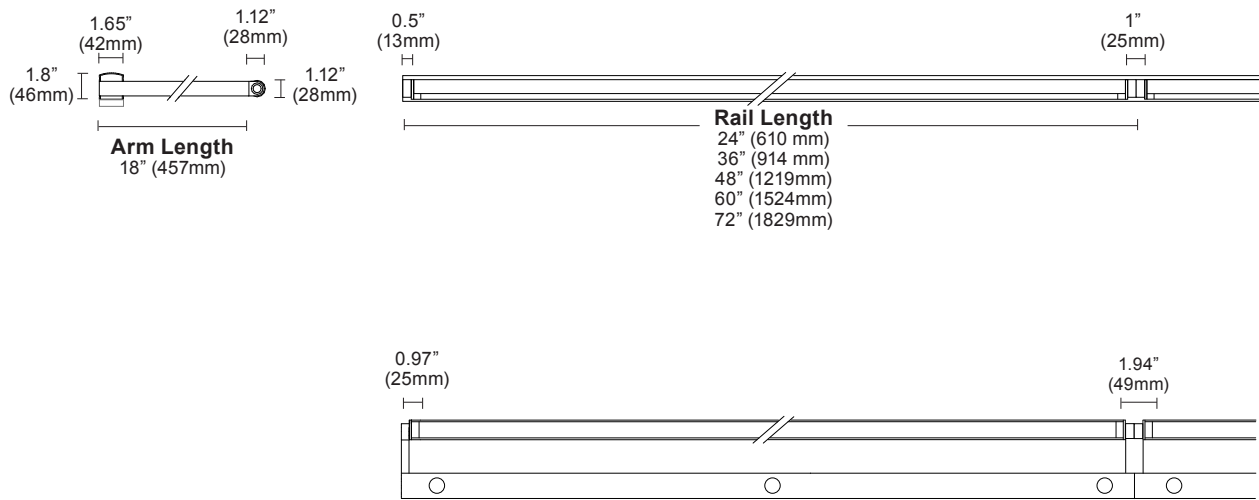
Structure

Rail Lengths	24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm).
Rail Dimensions	Ø1.12" (28mm).
Construction	Extruded and machined 6063 aluminum.
Mounting	Single or double-sided stack mount to integral power housing.
Arm Length	18" (457mm). Standard and non-standard lengths available. Single-sided requires lengths 24" or less.
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.

Materials

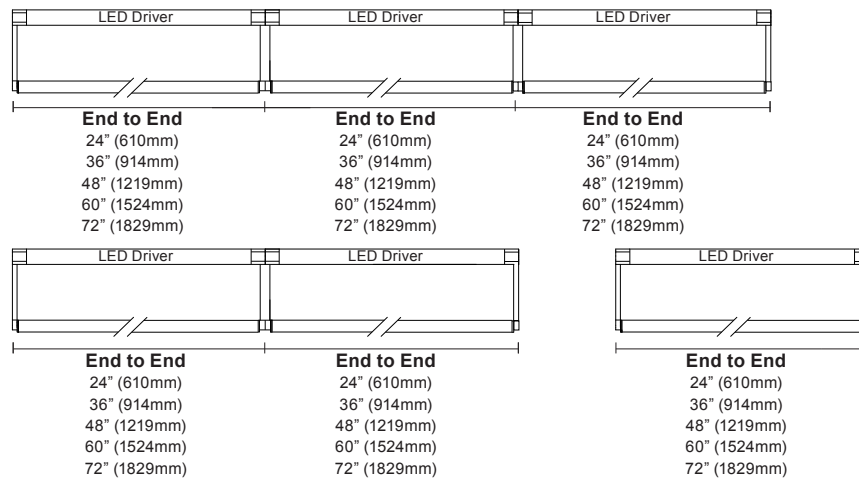
LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC, flame tested UL-910.
Cable Connectors	Unfilled white nylon, rated UL 94 V-0, halogen free, PVC overmold, RoHS compliant.
Integral Power Housing	Extruded and machined 6063 aluminum.

Dimensions

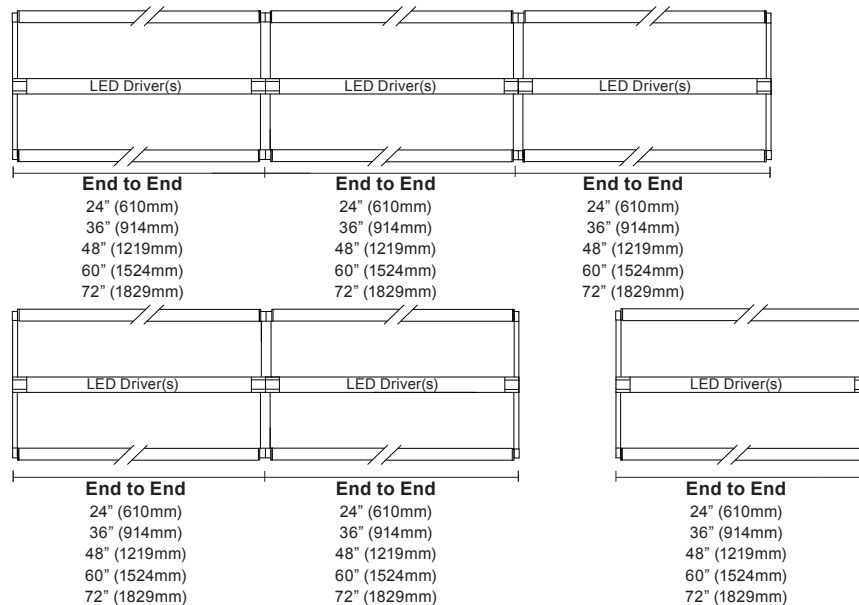


Layout

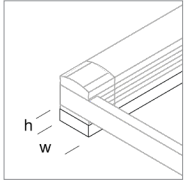
Single Sided (K1)



Double Sided (K2)



Mounting Options



Vode Strut
(provided with systems
with multiple rail sections)
h 0.8" (20mm)
w 1.61" (41mm)

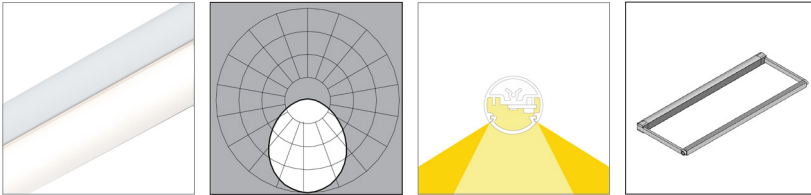
Power and Controls

Power Type	Class 2 (<60v output) constant current driver.
Dimming Controls	Dimming (0.1%, 1%), 0-10v, DALI, DMX, Lutron Hi-lume 1% are available. See Driver Guide for details.
Input Voltage	120v - 277v, 50/60hz.
Power Location	Integral power. See Driver Guide for details.

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.

Diffuse, round (2)



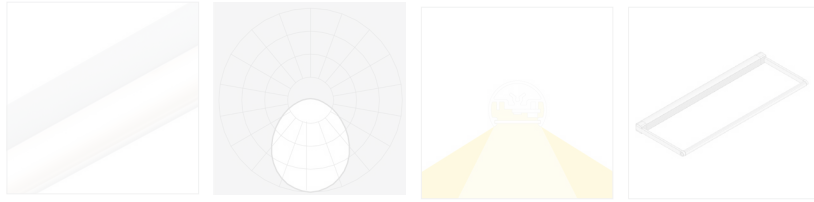
L80 >60,000 hours

	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	99	102	105	107	86	88	90	92
Lumens per foot (305mm)	369	381	389	396	318	328	335	342
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	123	127	129	132	106	109	112	114
Lumens per foot (305mm)	739	762	777	793	637	657	670	684
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
High Output (HO)								
Efficacy - Lumens per Watt	115	118	121	123	99	102	104	106
Lumens per foot (305mm)	1403	1448	1477	1507	1210	1248	1273	1299
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

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.

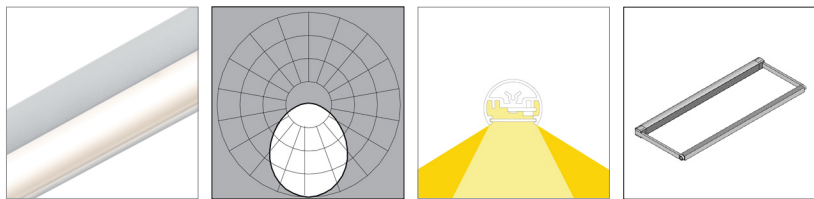
120° Batwing (G1)



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	28	29	31		78	80	82	83
Lumens per foot (305mm)	107	112	117		289	298	304	310
Watts per foot (305mm)	3.9	3.9	3.9		3.8	3.8	3.8	3.8
CRI	-	-	-	-	-	-	-	-
Standard Output (SO)								
Efficacy - Lumens per Watt		36	38	39	96	99	101	103
Lumens per foot (305mm)		224	234	243	578	596	608	620
Watts per foot (305mm)	6.3	6.3	6.3	6.3	6.1	6.1	6.1	6.1
CRI	-	-	84	-	-	-	-	-
High Output (HO)								
Efficacy - Lumens per Watt	30	32	33	34	90	93	94	96
Lumens per foot (305mm)	395	412	430	447	1098	1132	1155	1178
Watts per foot (305mm)	13.3	13.3	13.3	13.3	12.4	12.4	12.4	12.4
CRI	-	-	-	-	-	-	-	-

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	86	89	91	93	74	77	78	80
Lumens per foot (305mm)	320	331	33	344	276	285	291	297
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	107	110	113	115	92	95	97	99
Lumens per foot (305mm)	641	661	675	688	552	570	582	593
Watts per foot (305mm)	6.1	6.1	6.1	6.41	6.1	6.1	6.1	6.1
High Output (HO)								
Efficacy - Lumens per Watt	99	103	105	107	86	89	90	92
Lumens per foot (305mm)	1218	1256	1282	1307	1050	1083	1105	1127
Watts per foot (305mm)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

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