

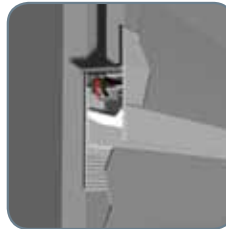
Type:

Approved:

Fixture:

Project:

MICROLINE STEP



The **MICROLINE STEP** is a robust architectural lighting system for interior design applications. **MICROLINE STEP** is a modular construction system for creating various lighting effects. It's perfect for architectural design accents, minimalist cove style applications and also for areas that need light but have limited space. Available in 2700K, 3000K and 4000K color temperatures. Low energy consumption.

SPECIFICATION

color temperature	2700K	3000K	4000K
beam spread	120°		
lumen output per foot	MLS/175	MLS/180	MLS/189
LEDs per foot	12		
color consistency	3-step MacAdam Ellipse		
lifetime	> 50,000 hours / L90 or better		
input voltage	24V DC constant voltage		
power consumption	4.5W per foot		
dimensions [L x W x H]	8 ft straight and 4 ft corner sections – can modified lengths in the field		
weight	0.5 lbs per foot		
housing	extruded aluminum (4', 8' lengths) with polycarbonate diffuser lens (48" lengths) - all lengths can be modified in the field.		
mounting	wall integrated extrusion with straight wall, inside/outside corner applications and universal orientation installation.		
operating temperature	15°C to 40°C		
junction temperature	45°C @ T ^a 25°C		
power supply	Class 2, 98W max, UL listed		
certification	ETL / cETL / CE / UL approved power supply		
standards	UL-Class II / CE Class III / IES LM-79 / LM-80		
environment	IP20 rated for interior use only.		
warranty	5 year limited warranty (refer to website for details)		
installation	http://tinyurl.com/h63c27s		

Due to continuous development and improvements, specifications are subject to change without notice.

CATALOG NUMBER

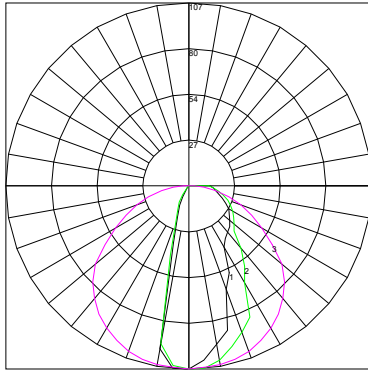
MLS							
model	color temperature	length in feet*		color		system components	
MLS MICROLINE STEP	27K 2700K	X-FT* Feet indicated by continuous run lengths		WH	White		DIM 0-10V Dimming
	3K 3000K			NP	No Paint		
	4K 4000K			CC	Custom		

* A drawing with space dimensions is required to obtain a quote for Microline Step. Continuous run lengths and power supply placement are confirmed by SSL.

PHOTOMETRY

MICROLINE STEP - (MLS) 12" 3K LED STRIP

MLS 12" 3K - Candlepower Curve

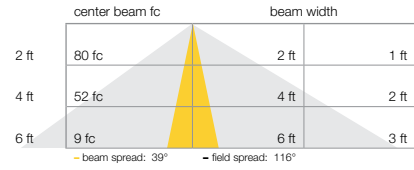


Zonal Lumen Summary

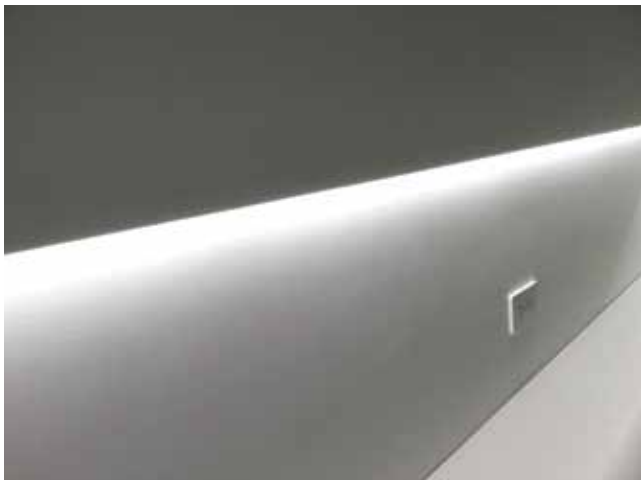
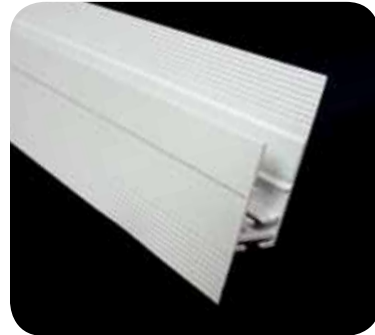
Zone	Lumens	%Lamp	%Luminaire
0-30	58	32%	32%
0-40	85	48%	48%
0-60	135	76%	76%
60-90	43	24%	24%
0-90	178	99%	99%
90-180	2	1%	1%
0-180	180	100%	100%

Efficiency Total: 100%

Illuminance at a Distance



MICROLINE STEP - MLS



LED Strips & Connector Types

Connection details for various size LED Strips and their assembly function. The LED Strips needed are determined by fixture run lengths, inside corners and outside corners of your design configuration. The maximum LED run length is 20 feet.

LED Strips end connector descriptions (Maintain positive (+) alignment when determining configuration.)

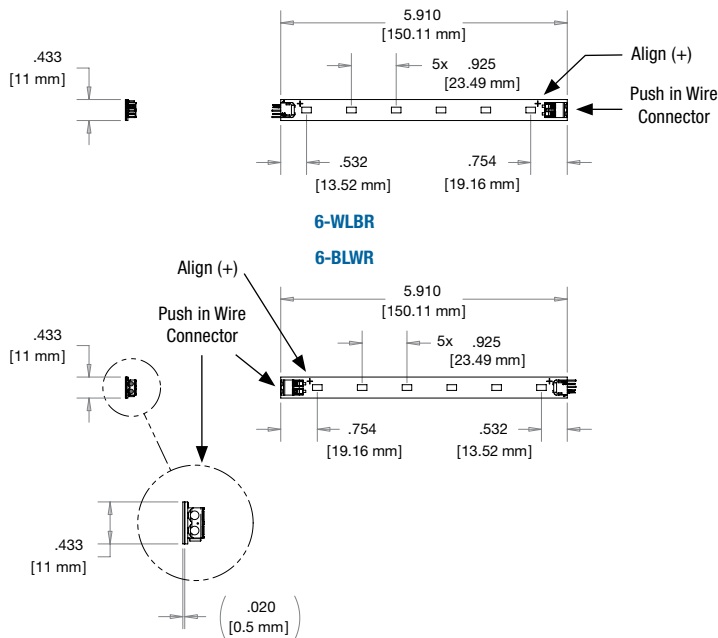
LED Strips with **Push in Wire Connectors** are used to start a linear run from lead wires or jump between LED strips with wire.

6" LED strip - Wire Connect Left / Board Connect Right	—	Push in Wire Connector Left, Board to Board Connector Right
6" LED strip - Board Connect Left / Wire Connect Right	—	Board to Board Connector Left, Push in Wire Connector Right
12" LED strip - Wire Connect Left / Board Connect Right	—	Push in Wire Connector Left, Board to Board Connector Right
12" LED strip - Board Connect Left / Wire Connect Right	—	Board to Board Connector Left, Push in Wire Connector Right

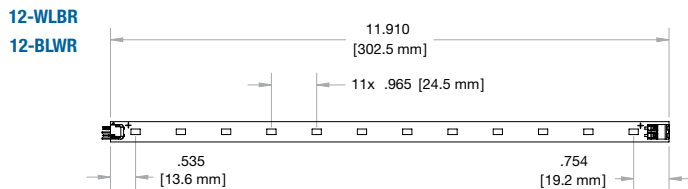
LED Strips with **Board to Board Connectors, Left & Right**, are used to extend a linear run from..

12" LED strip - Board Connect Left / Board Connect Right	—	Board to Board Connector Left, Board to Board Connector Right
24" LED strip - Board Connect Left / Board Connect Right	—	Board to Board Connector Left, Board to Board Connector Right

6" LED Strip (Uses Push in Wire Connector to start a run from the Left or Right direction.)

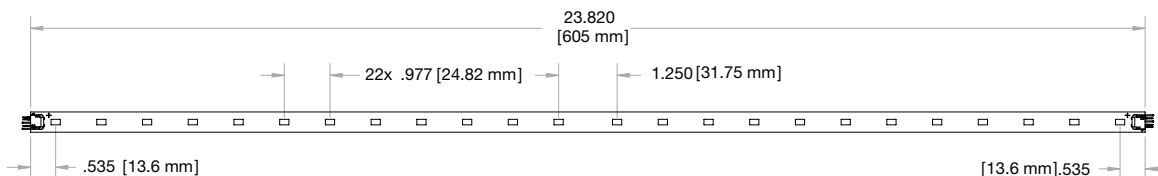


12" LED Strip (Used for starting a run or jumping with wire connector.)



24" LED Strip (Used to extend a run with Board to Board Connectors left and right.)

12-BLBR & 24-BLBR



CONNECTOR TYPES for LED Strips

There are two connector types for the LED Strips and splice or snap line locations as well. The **Push-In Wire Connector** is used to begin an LED run with wire leads from the driver, or to make small wire jumps, like rounding an inside or outside corner. Next is the **Board to Board Connector** for chaining the LED Strips together end to end.

Note: POSITIVE Symbol (+) always has to be aligned on the same side of each connected board.

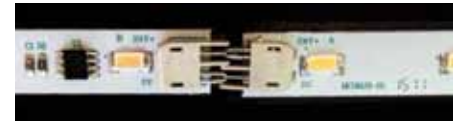
Push in Wire Connection (Max. gauge 18 AWG)



Board Connection 1) Always align (+) on LED Strips



Board Connection 2) Align metal contacts



Board Connection 3) push together



24V DC Low Voltage System

MicroLine LED Strips run on a 24V DC, constant voltage system. The maximum recommended wire gauge is 18 AWG strand. The LED Strips have a thin metal backing that helps keep them rigid for assembly, adds to thermal control, and yet allows flexibility for linear installation. Max 20' run of LED Strips per 98W driver.

CONSTRUCTION



Super-thin taper to reduce mud build-up

Special shape of snap-fit lens offers easy installation and removal for service

Wire-to board connector for simple wire-nut free wiring

Exclusive integrated raceway for excess and through wiring

Splined for easy run alignment



Universal Orientation Fixtures

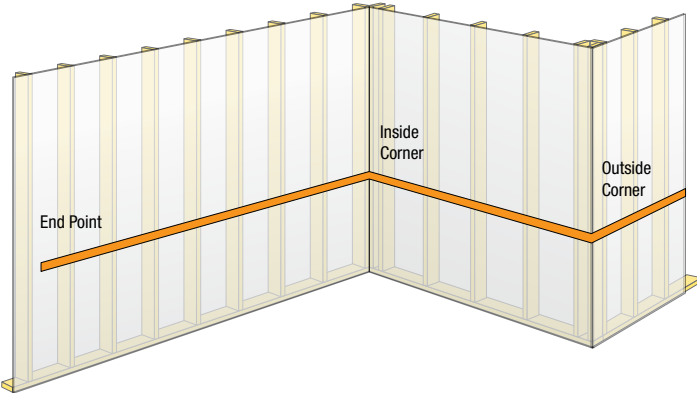
MicroLine Step

PLANNING

MICROLINE is the solution for architecturally integrated lighting design without the appearance of hanging or surface mounted fixtures. This unique LED modular fixture offers an unprecedented opportunity to provide maximum effect and efficiency.

Plan for position, length, inside corners and outside corners.

Planning the length of your linear run, including inside and outside corners, will determine the amount of MicroLine required to complete .



Inside and Outside Corners include:

4' left and 4' right mitred fixture housing, with L-shaped joint plates to help align left and right mitres at the corner during installation.

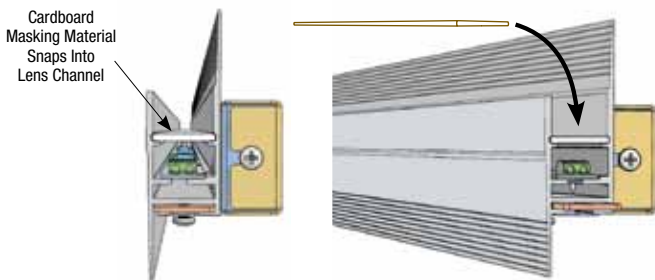
Straight run includes:

8' straight sections with 1.5" long joint plates to align extended, straight fixture runs during installation.

Power Supply location:

Because the power supply location can vary greatly, it's IMPORTANT to know if your supply starts at the Left, Center or Right of each run.

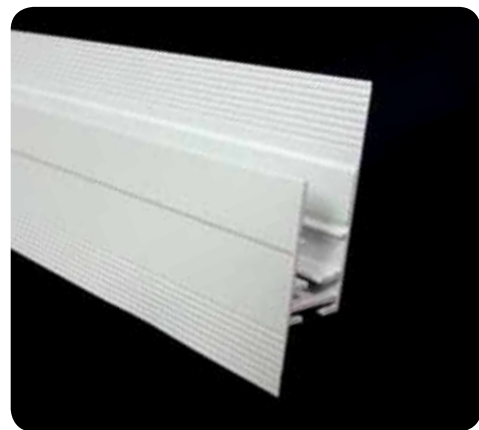
Coated cardboard masking material provided to protect inner channel during wall finishing process, prior to installing LED strips and Lens.



MICROLINE STEP SYSTEM

MicroLine STEP is intergrated to create a visual recess in the surface, accented by light. The fixture housing systems can be installed using universal orientation.

MICROLINE STEP HOUSING



MICROLINE STEP - DIMENSIONS (INCHES)

