tempo® architectural

SlotLine Pro

CONTINUOUS LINE OF LIGHT LED ACCENT LIGHTING SYSTEM

24VDC REMOTE POWER

APPLICATION

Field configurable surface mount or recessed accent lighting system able to go up to 100 feet with a single continuous opal lens. Extruded aluminum mounting channels with trim, no trim or mud-in designs to create dramatic, continuous lines of light in straight, angled or corner applications. Uniform light output achieved with Tempo designed LED light engines and refractive opal lenses that are both micro-maintainable in the field and can be easily replaced.

SlotLine Pro is capable of providing architectural accent lighting even in high ambient light areas with white light options in 1800K to 4200K plus static colors.

Designed with Tempo's modular CLiP® (Configurable Lighting Platform) technology, the SlotLine Pro series also features 9 inch "caboose" light engines that can be cut down to 6 inch or 3 inch lengths.

CONSTRUCTION

• Anodized aluminum mounting channels in 8 foot sections that can be field cut to length as needed. Anodized color options available on exposed designs.

• Mounting channel options:
  - Surface mount
  - Recessed no trim
  - Recessed with trim
  - Recessed mud-in

• Extruded plastic light engine housing is form fit to easily snap into mounting channel - no screws or clips required.

• CSA listed.

LENS / DIFFUSER

• Flexible opal lens produces a smooth and seamless line of light up to 100 feet long.

• UV resistant, will not fade or discolor over time.

POWER SYSTEM

• Tempo supplied 24VDC remote, Class II low voltage power supplies and enclosures.

• Triac dimming to 1%
  0-10V dimming to under 10%
  DMX dimming to 1%

PERFORMANCE

• 2W/ft and 4W/ft options.

• Dense pack LED spacing for high uniformity illumination between modules.

• Operating temperature range of -40ºC to 50ºC

• Power Supply Total Harmonic Distortion <20%, Power Factor >0.9

LIGHT CHARACTERISTICS

• Available in static 1800K, 2000K, 2400K, 2700K, 3000K, 3500K, 4200K, Red, Green, Amber and Blue.

• Typical CRI of 80+

• All LED's are selected and placed on the printed circuit boards via the Tempo UniBin™ process which ensures consistent hue and color within the entire run. White color variations are held to within a maximum of a 2-step MacAdam ellipse.

**Buy Tempo
Buy American**

MADE IN USA
OF US AND IMPORTED COMPONENTS
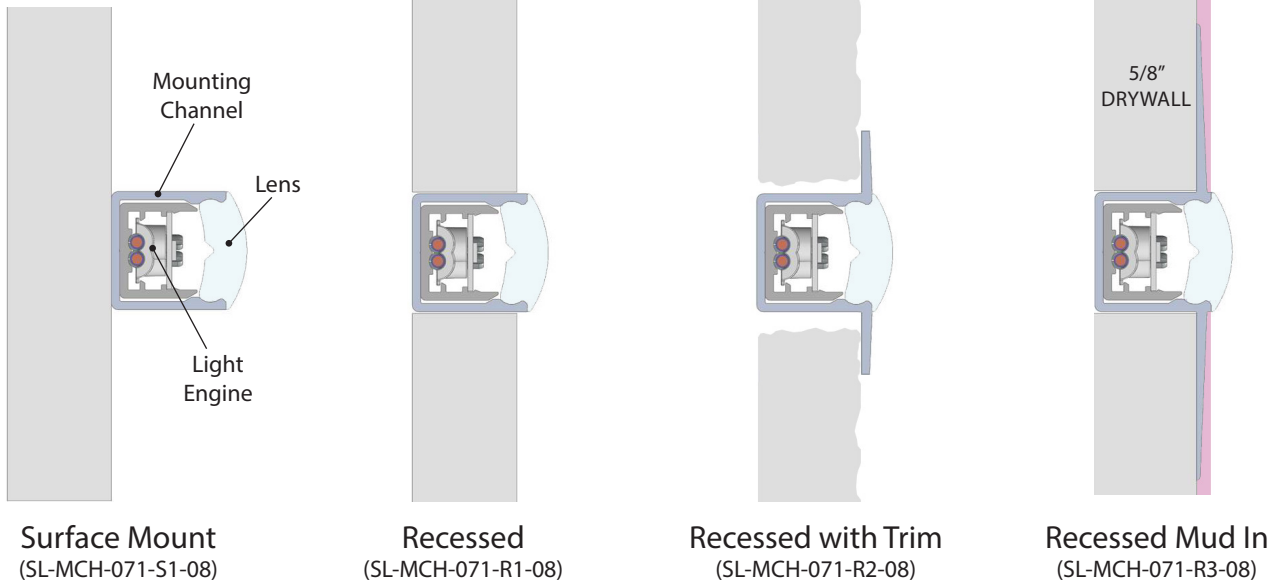
WARRANTY
Tempo provides a 5-year limited warranty.

86,000 HOURS
L85 LUMEN MAINTENANCE
LED Luminaires will reach 85% of initial lumen output at or beyond 86,000 hours at 25°C.

LUTRON
OEM
ADVANTAGE

Complete Lighting System with Multiple Remote 24VDC Power Supply Options

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APPLICATIONS

Surface Mount	Recessed	Recessed with Trim	Recessed Mud In
(SL-MCH-071-S1-08)	(SL-MCH-071-R1-08)	(SL-MCH-071-R2-08)	(SL-MCH-071-R3-08)

NIT MEASUREMENTS

Nit is a measurement of visual light intensity. One nit is equal to one candela per square meter.

SlotLine Light Engine	RED	GREEN	BLUE	AMBER	1800K	2000K	2400K	2700K	3000K	3500K	4200K
PRO 2w/ft	1,060	2,489	402	2,222	2,003	2,260	2,647	2,791	2,892	2,817	2,925
PRO 4w/ft	1,826	4,117	870	4,513	3,867	4,198	4,969	5,283	5,440	5,260	5,510

NIT COMPARISON EXAMPLES

Movie Theatre Screen - 65 nits

Apple Macbook Pro - 500 nits

Samsung UHD TV - 1,500 nits

LUMEN OUTPUT (lm/ft)

SlotLine Light Engine	1800K	2000K	2400K	2700K	3000K	3500K	4200K
PRO 2w/ft	39	43	51	53	55	55	58
PRO 4w/ft	73	80	96	100	104	104	108

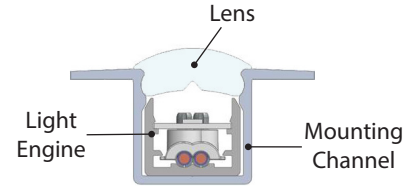## SlotLine Linear luminaires are easily specified with three simple steps.

1
Select SlotLine Pro
Light Engine

2
Select
mounting
channel

3
Select
lens type
and length

Lens

Light
Engine

Mounting
Channel

STEP ONE - Specify SlotLine Pro light engine

SLOTLINE PRO LIGHT ENGINE
Example: **SL-PRO-24DC-04-27-04**   SlotLine Pro Light Engine, 24VDC, 4.0W/ft, 2700K, 4 foot

SL	PRO	24DC			
Series	**Type**	**Voltage**	**Wattage**	**LED Color**	**Length**
SlotLine	**PRO** Pro Light Engine	**24DC** 24V DC	**02** 2.0W/ft	**18** 1800K	**01** 1 foot
			04 4.0W/ft	**20** 2000K	**02** 2 foot
				24 2400K	**03** 3 foot
				27 2700K	**04** 4 foot
				30 3000K	
				35 3500K	**369** 9 inch*
				42 4200K	
				RD Red (625nm)	
				GR Green (540nm)	
				BL Blue (470nm)	
				AM Amber (590nm)	

* 369 "Caboose" is a 9 inch light engine that can also be field cut to 6 inches or 3 inches to finish runs. Only available with PRO light engines.

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ORDERING INFORMATION (continued)

STEP TWO - Specify the field configurable mounting channel

MOUNTING CHANNEL
Example: **SL-MCH-071-R3-08-CL**   SlotLine Mounting Channel, Narrow .71" Recessed Mud-In, 8 foot, Clear Anodized

SL		MCH		071		Application		08		Finish
Series		**Type**		**Size**				**Length**		
SlotLine		**MCH** Mounting Channel		**071** Narrow 0.71"		**S1** Surface		**08** 8 Foot		**CL** Clear Anodized
						R1 Recessed (No Trim)				
						R2 Recessed with Trim				*Powder coat Color Options For S1 and R2 Only:*
						R3 Recessed Mud In				**CC*** Custom Color

* Custom powdercoat colors available. Consult factory for minimums, lead times and color options.

### STEP THREE - Specify the field configurable lens size & length

LENS
Example: **SL-LNZ-071-FS-01-100**   SlotLine Lens, Narrow .71" Flush Surface, Opal, 100 foot

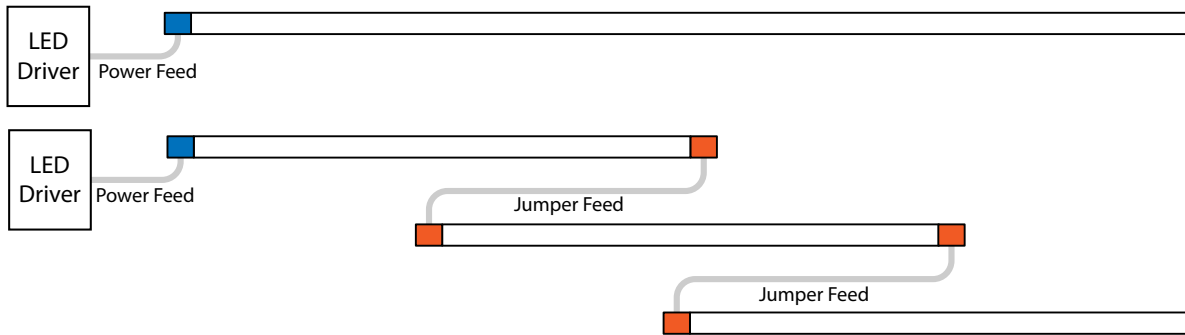| SL		LNZ		071		FS		01		Length
Series		**Type**		**Size***		**Style**		**Lens Type**		
SlotLine		**LNZ** Refractive Lens		**071** Narrow 0.71"		**FS** Flush Surface		**01** Opal		**100** 100 Foot Roll
										050 50 Foot Roll

REQUIRED SYSTEM INTEGRATION ACCESSORIES
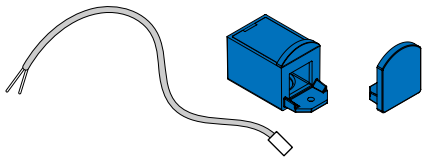
Power Feed Cable (PFSL-xx-xx)
Includes one Feeder Box & one End Cap.
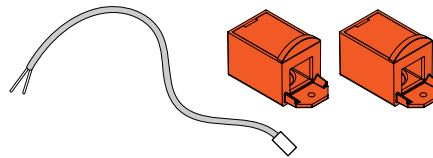
Jumper Feed Cable (JFSL-xx-xx)
Includes two Feeder Boxes to make connections.

POWER FEED CABLES Includes one Feeder Box and one End Cap	
PFSL-S1-24	Power Feed Cable, 24 inches; 1 Feeder Box & 1 End Cap for Surface (S1) and Recessed (R1 & R2) mounting channels
PFSL-S1-72	Power Feed Cable, 72 inches; 1 Feeder Box & 1 End Cap for Surface (S1) and Recessed (R1 & R2) mounting channels
PFSL-R3-24	Power Feed Cable, 24 inches; 1 Feeder Box & 1 End Cap for Mud-In (R3) mounting channel
PFSL-R3-72	Power Feed Cable, 72 inches; 1 Feeder Box & 1 End Cap for Mud-In (R3) mounting channel
JUMPER FEED CABLES Includes two Feeder Boxes	
JFSL-S1-24	Power Feed Cable, 24 inches; 2 Feeder Boxes for Surface (S1) and Recessed (R1 & R2) mounting channels
JFSL-S1-72	Power Feed Cable, 72 inches; 2 Feeder Boxes for Surface (S1) and Recessed (R1 & R2) mounting channels
JFSL-R3-24	Power Feed Cable, 24 inches; 2 Feeder Boxes for Mud-In (R3) mounting channel
JFSL-R3-72	Power Feed Cable, 72 inches; 2 Feeder Boxes for Mud-In (R3) mounting channel

POWER SUPPLIES - 24V Output Must be installed in close proximity to luminaire. See Driver Remote Distance chart.		
PWR-120-EM-040-T	120V AC Input, 24V DC Output, 40W, Triac Dimming (dim to 1%) Lutron Hi-lume 1% 2-wire LED driver, 120V forward phase; 3.0" W x 1.0" H x 4.9" L	
PWR-120-EM-040-T-1	120V AC Input, 24V DC Output, 40W, Triac Dimming (dim to 1%) Lutron Hi-lume 1% 2-wire LED driver, 120V forward phase; 1.2" W x 1.0" H x 14.25" L	LUTRON OEM ADVANTAGE
PWR-UNV-EM-96-DMX	120-277V AC Input, 24V DC Output, 96W, DMX/RDM Dimming; 2.6" W x 1.3" H x 9.7" L	
PWR-UNV-EM-060	120-277V AC Input, 24V DC Output, 60W, Non-Dimming; 1.7" W x 1.2" H x 9.5" L	
PWR-UNV-EM-060-Z	120-277V AC Input, 24V DC Output, 60W, 0-10V Dimming (dim to under 10%); 1.7" W x 1.2" H x 9.5" L	
PWR-UNV-EM-100	120-277V AC Input, 24V DC Output, 100W, Non-Dimming; 1.7" W x 1.2" H x 9.5" L	
PWR-UNV-EM-100-Z-JB	Plenum Rated J-Box Driver, 120-277V AC Input, 24V DC Output, 100W, 0-10V Dimming (dim to under 10%); 2.5" W x 1.7" H x 12.4" L	

SURGE SUPPRESSION DEVICE A Tempo furnished surge suppression device must be installed on each supplying branch circuit to comply with 5-year warranty terms	
SSD-120	120V Branch Circuit
SSD-277	277V Branch Circuit

OPTIONAL SYSTEM INTEGRATION ACCESSORIES

MOUNTING HARDWARE	
SCR-WS-06-1-50	Bag of 50 Mounting Screws for Wood Stud applications, #6 x 1" Phillips
SCR-MS-06-1-50	Bag of 50 Mounting Screws for Metal Stud applications, #6 x 1" Phillips
SCR-DW-06-1-50	Bag of 50 Mounting Screws for Drywall & Mud-In Drywall applications, #6 x 1" Phillips
SCR-TW-0632-1.75-50	Bag of 50 Toggle Wings & 6-32 x 1.75" screws for Hollow Drywall applications

CONNECTORS	Note: Each light engine ordered includes one connector. Extra connectors available in bags of 20.
SLA-071-TWC	Bag of 20 Thru Wire Connectors for SlotLine ECO and PRO light engines

ADDITIONAL WIRE (For extra long leads or jumpers if needed)	
WIR-16-2C-PR-300	Plenum rated wire for longer feeds, 300 foot spool, 16AWG Class 2 CMP/CL3P (suitable for use in walls, ceilings and plenum)

DRIVER ENCLOSURES	
PWR-ENC-181204	Power Enclosure, 18" x 12" x 4", Nema 1, Gray (Maximum of 2 100W Drivers or 3 40W & 60W Drivers per enclosure)
PWR-ENC-182404	Power Enclosure, 18" x 24" x 4", Nema 1, Gray (Maximum of 3 100W Drivers or 3 40W & 60W Drivers per Enclosure)

MAXIMUM RUN LENGTHS

| 24V Driver	2.0W/ft	4.0W/ft
100W	50	25
60W	30	15
40W	20	10

DRIVER REMOTE DISTANCE

|	Wire Gauge	Maximum Lead Length
	18 AWG	15ft (4.5m)
24VDC Driver	16 AWG	25ft (7.5m)
	14 AWG*	40ft (12m)
	12 AWG*	60ft (18m)

* Terminal blocks on the drivers accept 18AWG or 16AWG wire. To use wire gauges larger than 16AWG connect up to 3 ft of 18AWG or 16AWG, then connect 14AWG or 12AWG with UL approved wire nuts up to the maximum lead length in the above table.

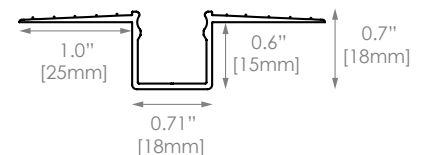## DIMENSIONAL INFORMATION

Mounting Channels (8 foot lengths)
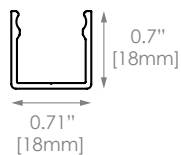
Surface (SL-MCH-071-S1-08)
and
Recessed (SL-MCH-071-R1-08)
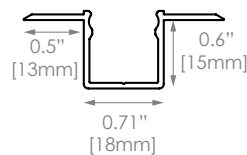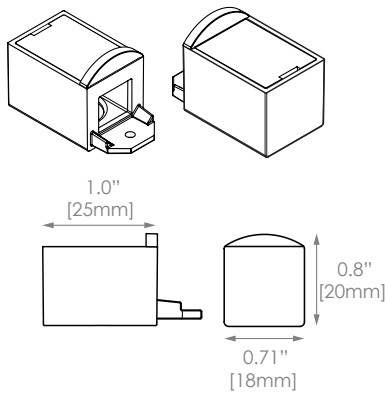
Recessed with Trim
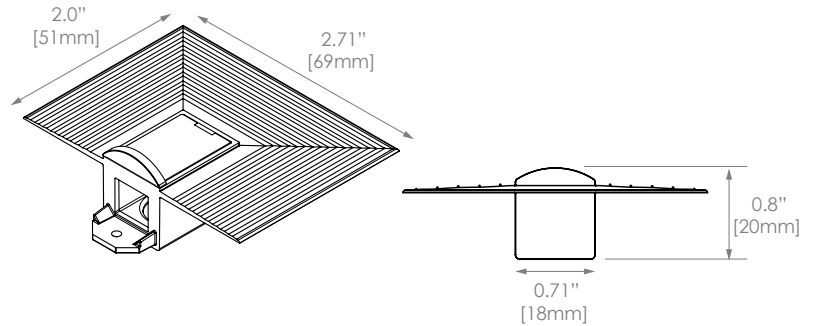(SL-MCH-071-R2-08)

Recessed Mud In
(SL-MCH-071-R3-08)

DIMENSIONAL INFORMATION CONTINUED

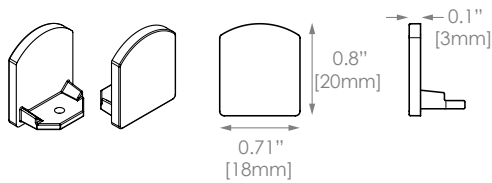Feeder Boxes & End Caps (One of each included with Power/Jumper feed)
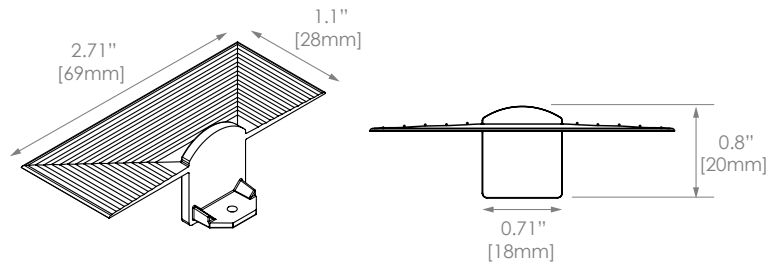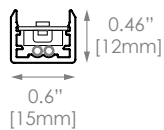
Feeder-Box (S1, R1 & R2)

1.0"
[25mm]

0.8"
[20mm]

0.71"
[18mm]

Feeder-Box Mud In (R3)

2.0"
[51mm]

2.71"
[69mm]

0.8"
[20mm]

0.71"
[18mm]

End Cap (S1, R1 & R2)

0.1"
[3mm]

0.8"
[20mm]

0.71"
[18mm]

End Cap Mud In (R3)

1.1"
[28mm]

2.71"
[69mm]

0.8"
[20mm]

0.71"
[18mm]

Light Engine (1', 2', 3' & 4' lengths)

0.46"
[12mm]

0.6"
[15mm]

Lens (50' or 100' rolls)

0.71"
[18mm]

369 Caboose Light Engine

9"

Cut Line for 6" LED Board

Cut Line for 3" LED Board
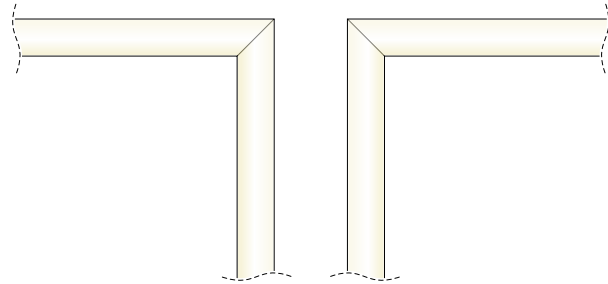
Pin Wire
(Power supplied from this end)
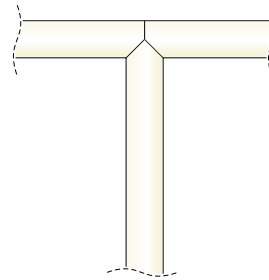
tempo architectural
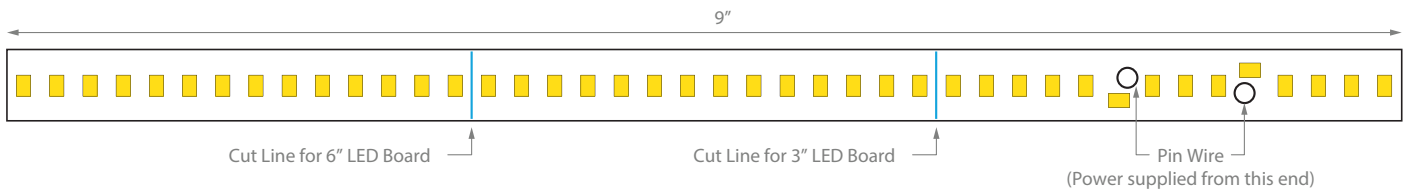
ANGLES AND CORNER DETAILS

Note: SlotLine is a field configurable product, all miter cuts to be performed in the field. Please reference Power Feed Options and Dimensional Layout Guidelines on following pages and see Installation Instructions for further details.
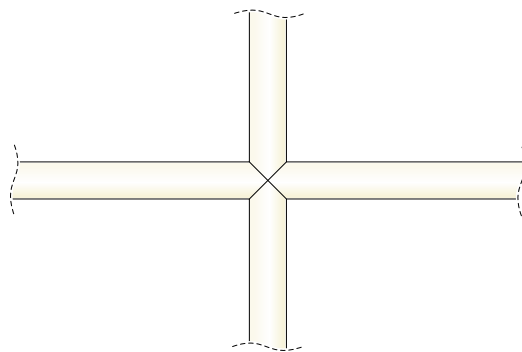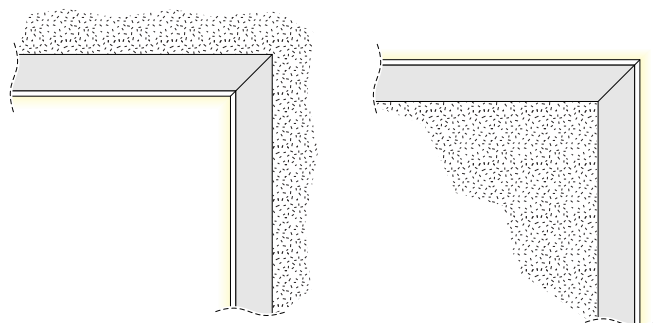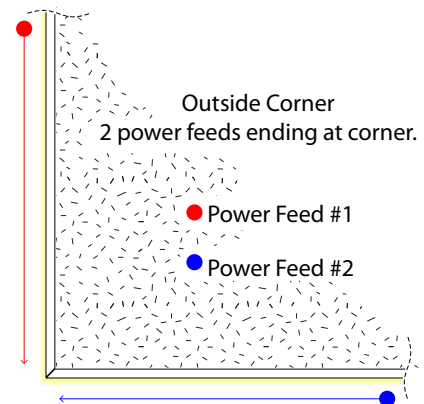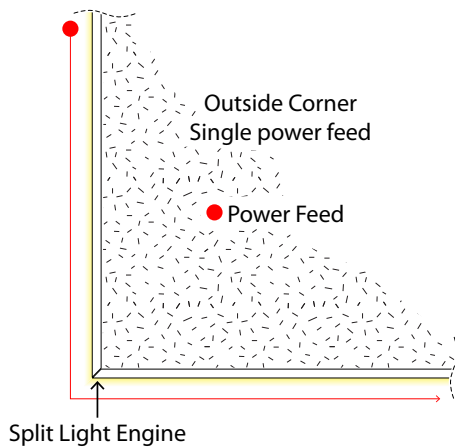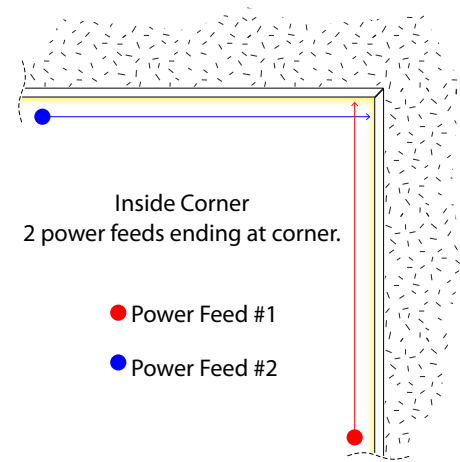
90° Turns

"T" Sections

Cross Sections

Inside & Outside Corners

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SlotLine Pro

POWER FEED OPTIONS FOR TURNS & CORNERS

IMPORTANT NOTE - Turns & Corners cannot be made with SlotLine connector. Must field modify Light Engine by splitting in between LED boards to make turns (see Installation Instructions) or design layout so runs end at each turn or corner as shown below.

Split Light Engine

90° Turns
Single power feed

● Power Feed

90° Turns
2 power feeds ending at turn.

● Power Feed #1

● Power Feed #2

Split Light Engine

Inside Corner
Single power feed

● Power Feed

Inside Corner
2 power feeds ending at corner.

● Power Feed #1

● Power Feed #2

Outside Corner
Single power feed

● Power Feed

Split Light Engine

Outside Corner
2 power feeds ending at corner.

● Power Feed #1

● Power Feed #2

SPEC_SlotLine 03_21b

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POWER FEED OPTIONS FOR INTERSECTIONS

NOTE - Vertical runs shown below can meet Horizontal run at any point along Horizontal run.
Does not need to be inbetween LED Boards as shown below.

Two power feeds.
Second ends at intersection.

● Power Feed #1

● Power Feed #2

Three power feeds.
Third ends at intersection.

● Power Feed #1

● Power Feed #2

● Power Feed #3

Three power feeds to
form seamless cross section.

● Power Feed #1

● Power Feed #2

● Power Feed #3

Four power feeds to
form seamless cross section

● Power Feed #1

● Power Feed #2

● Power Feed #3

● Power Feed #4
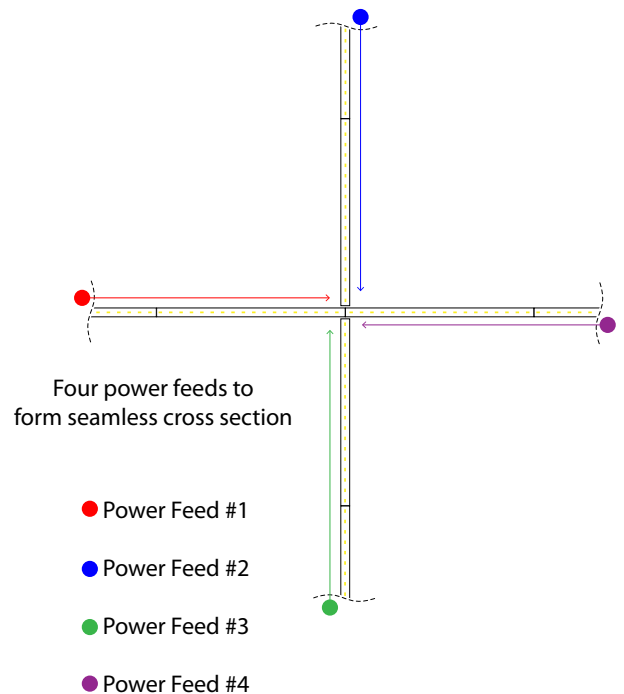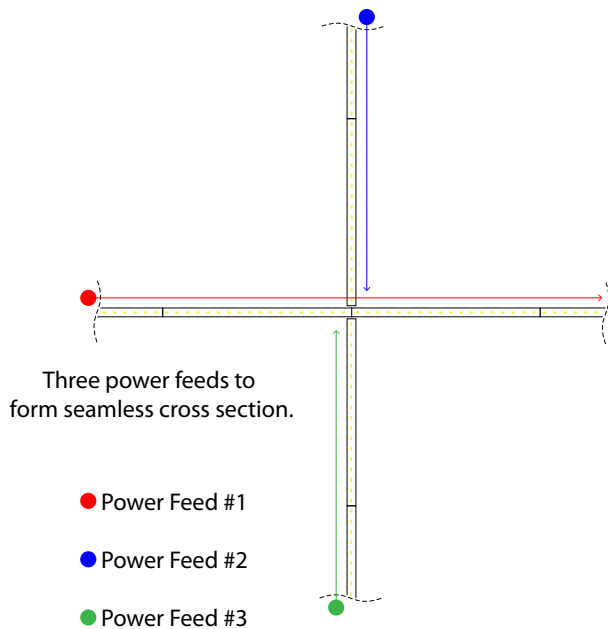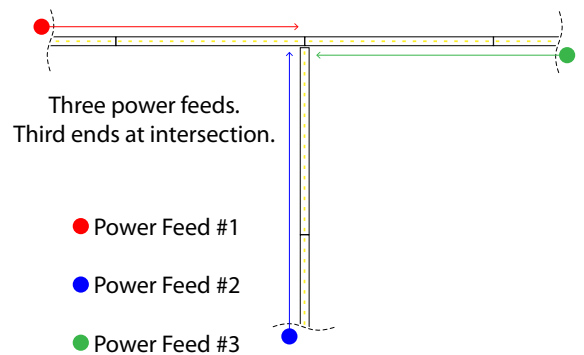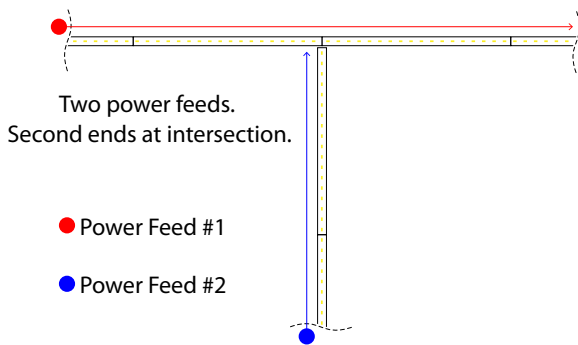
DIMENSIONAL LAYOUT GUIDELINES FOR ALUMINUM MOUNTING CHANNELS

Aluminum Mounting Channel (SL-MCH)
x feet + .75" for corner with 45° miter cut

.75"

.75"

12" SlotLine Light Engine

Aluminum Mounting Channel (SL-MCH)
x feet + .75" for corner with 45° miter cut

12" SlotLine Light Engine

90° Turn
with single run through turn

Aluminum Mounting Channel (SL-MCH)
x feet with 45° miter cut

.75"

12" SlotLine Light Engine

Aluminum Mounting Channel (SL-MCH)
x feet + .75" for corner with 45° miter cut

12" SlotLine Light Engine

90° Turn
with 2 runs ending at turn

Aluminum Mounting Channel (SL-MCH)
x feet with 45° miter cut

12" SlotLine Light Engine

Aluminum Mounting Channel (SL-MCH)
x feet with 45° miter cut

12" SlotLine Light Engine

Aluminum Mounting Channel (SL-MCH)
x feet with 45° x 45° miter cut

12" SlotLine Light Engine

"T" Layout

IMPORTANT NOTE:

Dimensions shown do not include
optional 3, 6 or 9 inch "Caboose"
(Light Engine P/N ending in 369)
for use *only at end of runs*.

Caboose not for use in between Light Engines

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DIMENSIONAL LAYOUT GUIDELINES

Cross Sections Layout

Aluminum Mounting Channel (SL-MCH)
x feet + .75" with 45° x 45° miter cut at intersection

12" SlotLine Light Engine

Aluminum Mounting Channel (SL-MCH)
x feet with with 45° x 45° miter cut at intersection

Aluminum Mounting Channel (SL-MCH)
x feet with with 45° x 45° miter cut at intersection

12" SlotLine Light Engine

.75"

12" SlotLine Light Engine

Aluminum Mounting Channel (SL-MCH)
x feet + .75" with 45° x 45° miter cut at intersection

12" SlotLine Light Engine

IMPORTANT NOTE:

Dimensions shown do not include
optional 3, 6 or 9 inch "Caboose"
(Light Engine P/N ending in 369)
for use *only at end of runs.*

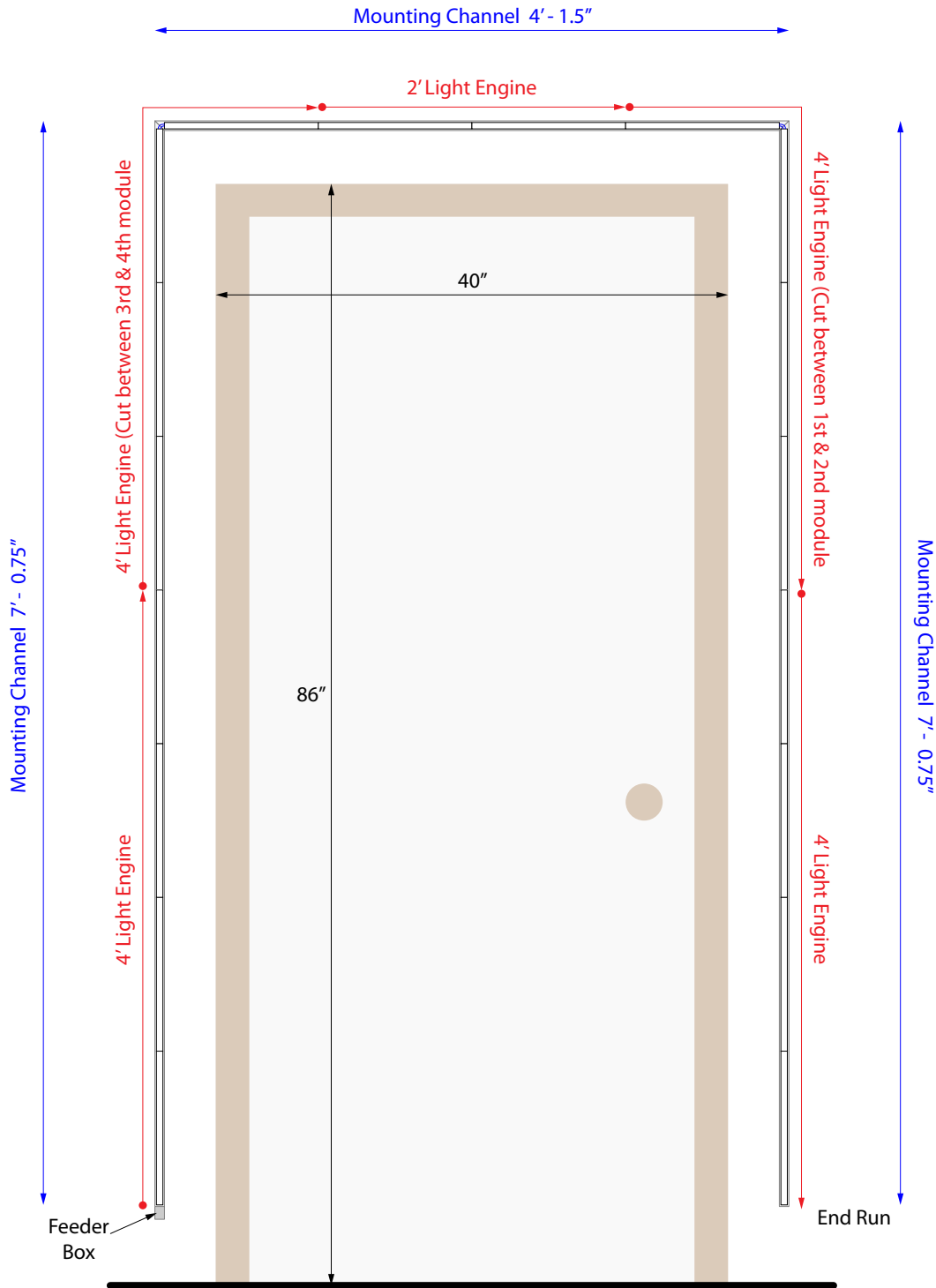Caboose not for use in between Light Engines

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DIMENSIONAL LAYOUT GUIDELINES

Layout Example Around 40" x 86" Door

Mounting Channel 4' - 1.5"

2' Light Engine

4' Light Engine (Cut between 3rd & 4th module

4' Light Engine (Cut between 1st & 2nd module

4' Light Engine

4' Light Engine

Mounting Channel 7' - 0.75"

Mounting Channel 7' - 0.75"

40"

86"

Feeder Box

End Run

Tempo Industries reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program. Please consult **www.tempollc.com** for the most up-to-date specifications and technical data.

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