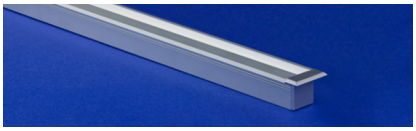
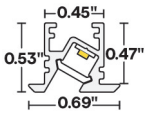
MICRO 5 POP FLANGE-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed





- MICRO 5 Series linear LED flanged fixture engineered for exceptional light quality and even distribution, seamlessly blending with millwork details
- Asymmetric fixture with a 75° focused beam 20° off-nadir
- Features high-quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Encapsulation is available in translucent
- Suitable for indoor and outdoor locations
- Ideal for recessed installations that call for low-profile light in small areas
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 LENS
	2.0		ENC	TL

ADDITIONAL INFORMATION REQUIRED TO ORDER

6 WIRE INPUT/ OUTPUT	7 CONNECTOR/ WIRE IN	8 CONNECTOR/ WIRE OUT	9 WIRE COLOR	10 WIRE TYPE	11 MOUNTING	12 FINISH	13 LENGTH (IN)	14 EXACT/ OPTIMAL

Sample Part Number: **POPF-03-DW-2.0-24/30-ENC-TL-S1A-BW-CLS-WH-CL2-MG-ST-48"-E**

1 PRODUCT

POPF-03-DW
POPF-03-DW-USA

Select USA option for BAA and BABA projects.

LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.

2 WATTS/FT

2.0	2.0W/ft

3 CCT

22/30	2200K/3000K
22/35	2200K/3500K
24/30	2400K/3000K
24/40	2400K/4000K
27/40	2700K/4000K

4 RATED

ENC	IP67

5 LENS

TL	Translucent

For representation of LED visibility, see Diode Visibility section on following pages.For beam angles, see Photometric Performance section on following pages

6 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1A	End Feed
S1B	End Feed
S2A	Bottom Feed
S2B	Bottom Feed

For continuous mounting, consider bottom feed.

PASS THROUGH (Input/output)

P1A	End Feed
P1B	End Feed
P2A	Bottom Feed
P2B	Bottom Feed

For continuous mounting, consider bottom feed.

7 CONNECTOR/WIRE IN

BW	Bare Wire (Standard 24")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

BW	Bare Wire (Standard 24")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

8 CONNECTOR/WIRE OUT

CLS	Closed End (No feed)

BW	Bare Wire (Standard 24")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

9 WIRE COLOR

WH	White
BK	Black

10 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated

CL2P only available with bare wire leads (BW)

11 MOUNTING

MG	Magnet
832	832 Silicone
SP	Spring Clip
PL	Plastic Clip

12 FINISH

ST	Satin
BK	Black
BZ	Bronze
WH	White
CU	Custom

Custom finishes have longer lead times. Non-RAL 9003 whites custom.

13 LENGTH (IN)

Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".

14 EXACT/OPTIMAL

E	Exact specified length
O	Optimal illumination

Exact fixtures are the exact length specified +0 – 1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts.

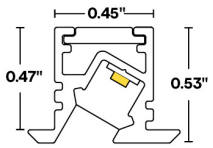
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

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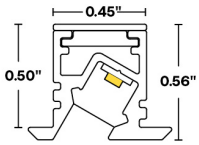
MICRO 5 POP FLANGE-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

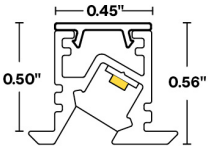
1 PRODUCT - DIMENSIONS



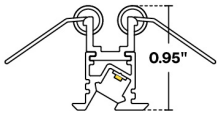
Profile with magnet clip



Profile with magnet clip and magnet mount accessory



Profile with plastic clip



Profile with spring clip

2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with POPF-03-DW-2.0-**-ENC

	3000K	
	LM/FT	CRI
TL	58	95

5 DIODE VISIBILITY

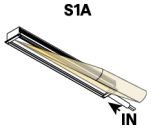
ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

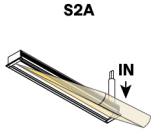
	DW 2.0 W/FT		DW 4.0 W/FT	
	QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply	
	Min	Max	Min	Max
Ambient Operating Temp - Recessed	-4°F	120°F	-4°F	100°F

6 WIRE INPUT/OUTPUT

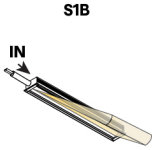
ASYMMETRIC ONLY SINGLE (Input only)



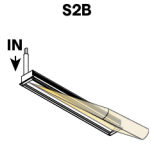
End Feed



Bottom Feed

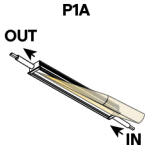


End Feed

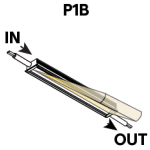


Bottom Feed

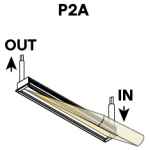
ASYMMETRIC ONLY PASS THROUGH (Input/Output)



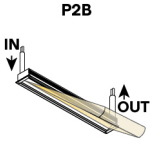
End Feed



End Feed



Bottom Feed



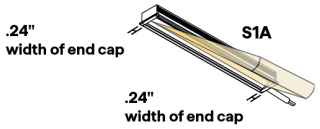
Bottom Feed

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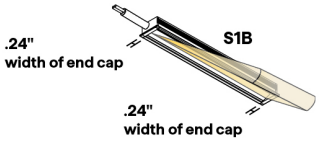
MICRO 5 POP FLANGE-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

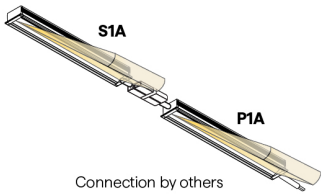
CONFIGURATION OPTIONS



Single End Feed

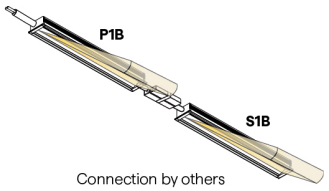


Single End Feed



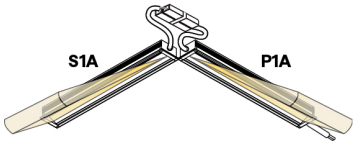
Connection by others

Non-Continuous End Feed



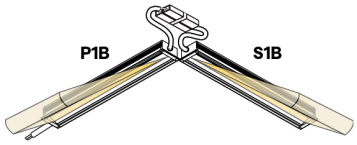
Connection by others

Non-Continuous End Feed



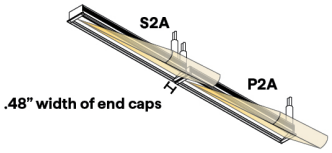
Connection by others

Non-Continuous Corner Feed

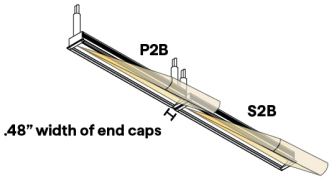


Connection by others

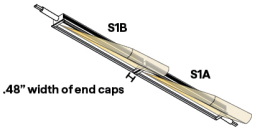
Non-Continuous Corner Feed



Non-Continuous Bottom Feed



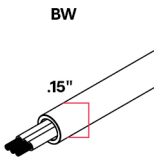
Non-Continuous Bottom Feed



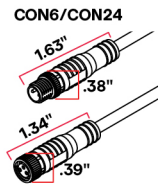
Non-Continuous End to End Feed

7/8 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out

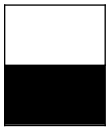


Bare Wire 24"
22 AWG



6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

9 WIRE COLOR



White

Black

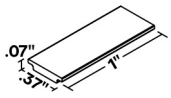
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MICRO 5 POP FLANGE-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

11 MOUNTING

MG

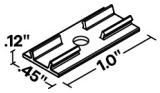


Magnet Clip

One MG provided per foot

To order separately use MG-05

PL



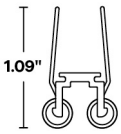
Plastic Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use PLC-16

Each clip comes with a #6x1/4" and #6x1/2" Flat Head SS

SP



Spring Clip

2 clips provided for 4' or less. 4 clips provided for greater than 4'.

To order separately use SP-02

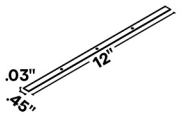
832



832 Silicone

Sold separately

MMA-05



Magnet Mount Accessory for MG-05

Sold separately, to order use MMA-05

Each bracket comes with 2 #6 x 5/8" Flat Head SS per foot

Required when mounting to a non-magnetic surface

12 FINISH



Satin

Black

Bronze

White

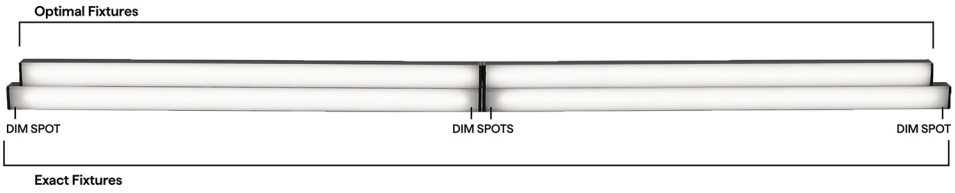
Custom finishes require a longer lead time, consult factory

14 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →

E/O Explained →

Exact fixtures are the exact length specified +0 – 1/8". Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.



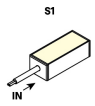
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MICRO 5 POP FLANGE-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

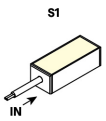
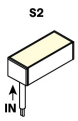
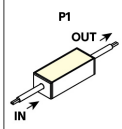
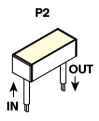
24VDC Linear Fixtures - Recessed

DW ENC LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
	
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1A/B & S2A/B		P1A/B & P2A/B	
	 End Feed	 Bottom Feed	 End Feed	 Bottom Feed
12"	10.50"		10.75"	
13"	12.50"		12.75"	
14"	12.50"		12.75"	
15"	14.50"		14.75"	
16"	14.50"		14.75"	
17"	16.50"		16.75"	
18"	16.50"		16.75"	
19"	18.50"		18.75"	
20"	18.50"		18.75"	
21"	20.50"		20.75"	
22"	20.50"		20.75"	
23"	22.50"		22.75"	
24"	22.50"		22.75"	
36"	34.50"		34.75"	
48"	46.50"		46.75"	
60"	58.50"		58.75"	
72"	70.50"		70.75"	
84"	82.50"		82.75"	
96"	94.50"		94.75"	

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR	OUTDOOR
	MICRO 5-DW Warm Dim Applications	MICRO 5-DW Warm Dim Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DMX QZ-DW	Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT6-PS QOM-eLED+DALI-DT8 QOM-eLED+DALI-DT8-PS QOM-eLED+WD QZ-DMX QZ-DW
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with WD App Dongle	

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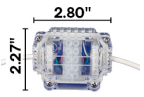
MICRO 5 POP FLANGE-ENCAPSULATED (03) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	MICRO 5-DW Warm Dim Applications	**MICRO 5-DW Warm Dim Applications**
Phase	QZ-DW	Q-SET-QZ-DW QZ-DW
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	Q-SET-QZ-DW QOM-eLED+WD QZ-DW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	
DMX LED wattage must be doubled for DW-HE products	QZ-DMX	QZ-DMX
DALI-2: DT6 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QOM-eLED+DALI-DT6
DALI-2: DT8 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP

Read and write DMX addresses and adjust voltage

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Specification subject to change. Rev-10-08-26

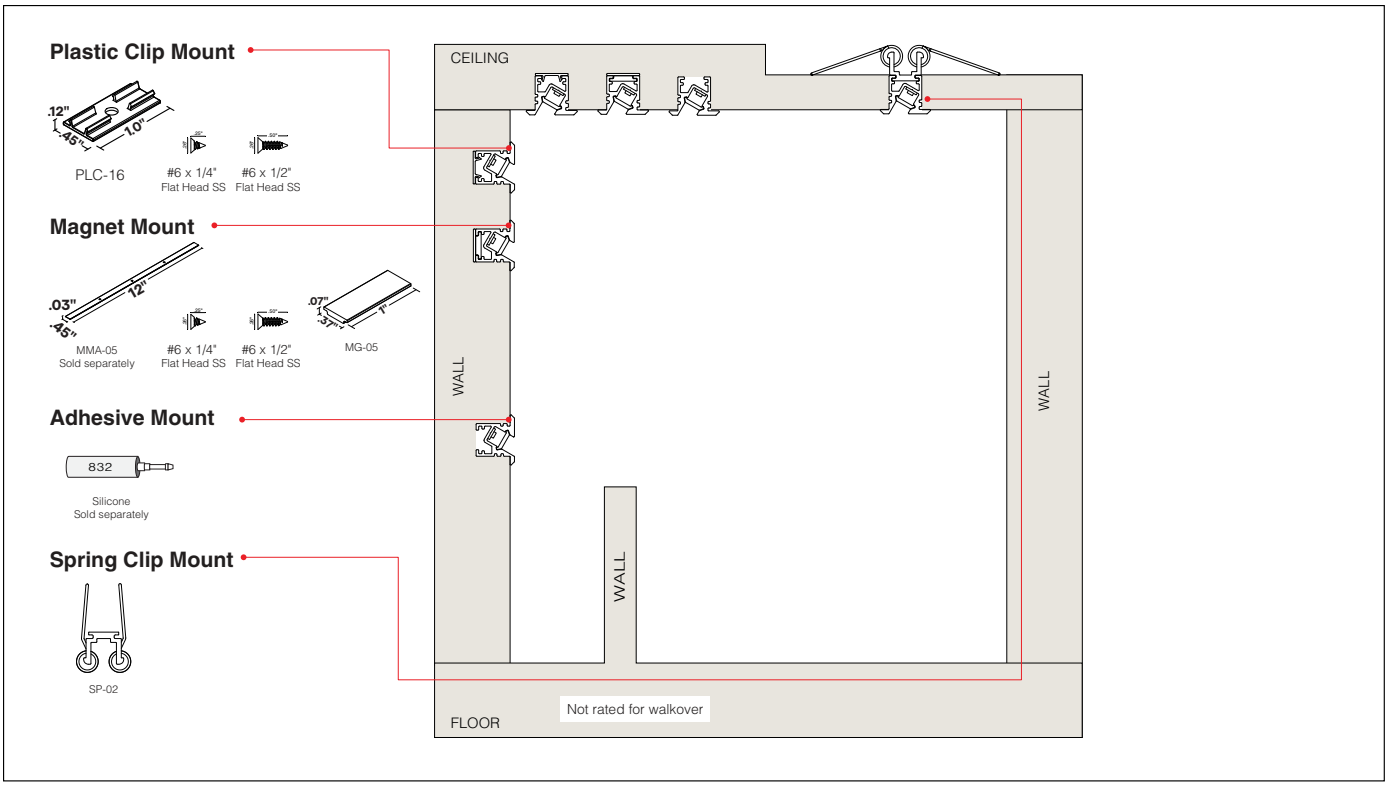
MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Recessed in millwork
- Suitable for installation in storage area of a clothes closet when assembled as a finished fixture up to 4W/ft at QTL facility
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

METHODS OF INSTALLATION:



Preparation

- Components & Hardware (page 2)
- Cutting & Configuration Options (page 3)
- Surface Preparation & Assembly (page 4-5)

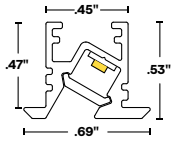
Recessed Mounting Method

- Silicone Mount: Millwork (page 6)
- Magnet Mount: Millwork (page 7)
- Plastic Clip Mount: Millwork (page 8)
- Spring Clip Mount: Millwork (page 9)

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MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

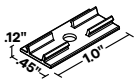


POP-FLANGE-FLAT (01)

COMPONENTS & HARDWARE

Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

PLASTIC CLIP

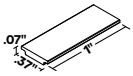


Included	
	Flat Head Screw #6x1/4"
	Flat Head Screw #6x1/2"

PLC-16

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'

MAGNET CLIP



MG-05

- One magnet clip per foot

SPRING CLIP

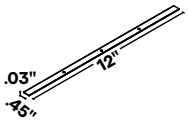


SP-02

- 2 clips provided for 4' or less. 4 clips provided for greater than 4'

ACCESSORIES SOLD SEPARATELY

MAGNET MOUNT ACCESSORY; sold individually



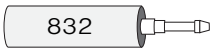
Included	
	Flat Head Screw #6x1/4"
	Flat Head Screw #6x1/2"

MMA-05

- MMA-05 comes in 12" pieces
- 4 provided for 4' or greater. 2 provided for 4' or less

ADHESIVE SOLD SEPARATRLY

SILICONE



DOWSIL 832

REQUIRED ACCESSORY

RUBBER ROLLER



Included
Included and required for all MICRO 5 field assembled options

UNI-ROLLER

- Roller tool used to lay MICRO 5 LED strip into extrusion housing. To order additional use UNI-ROLLER

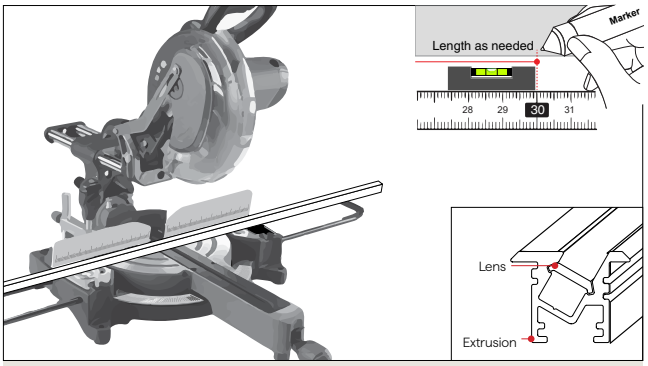
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MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

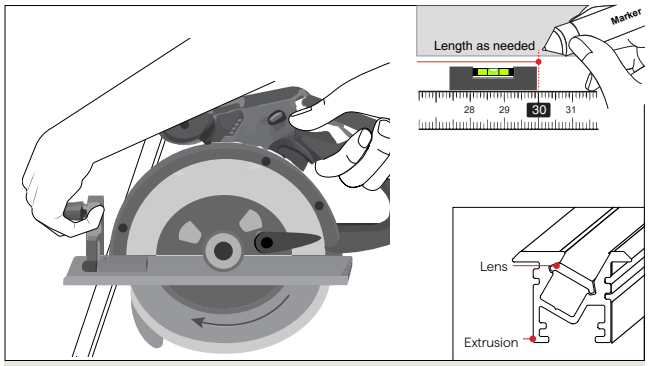
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

QTL strongly recommends cutting the extrusion and lens together to achieve a clean cut.



To achieve corners or angles, measure the LED extrusion to desired length and cut with a miter saw.

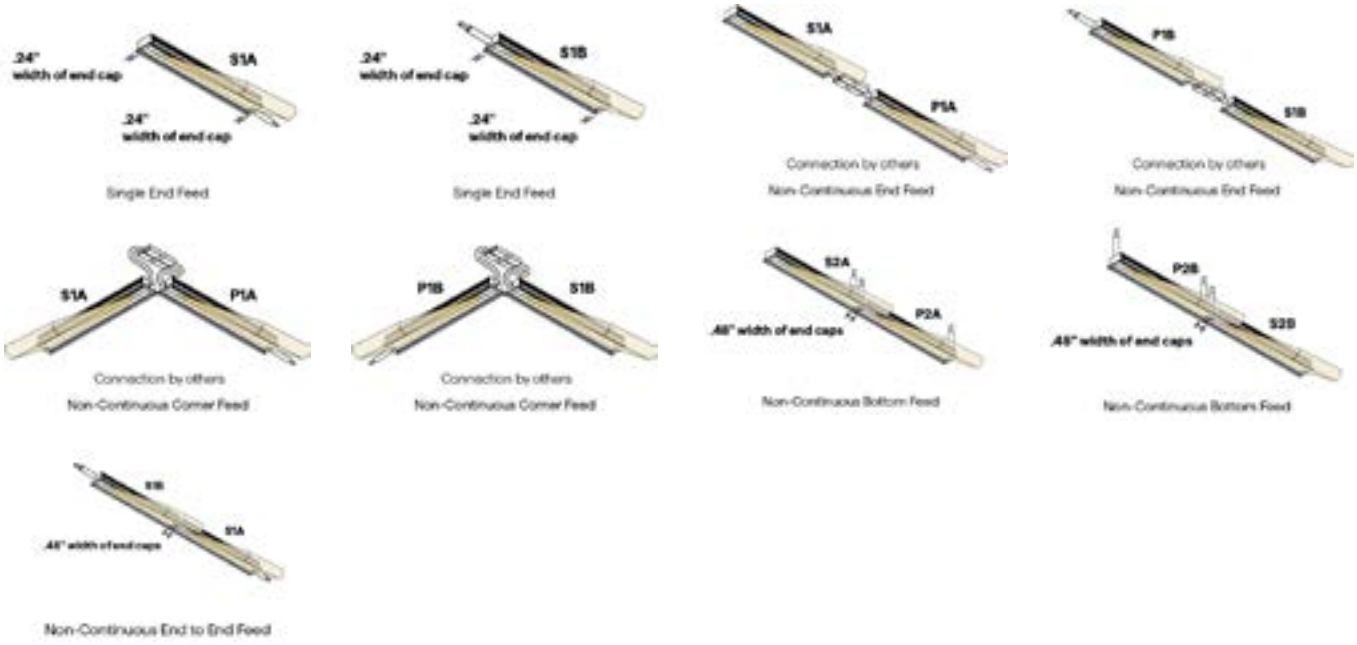
OR



For straight runs, measure LED extrusion to desired length and cut it with a circular saw.

NOTE: Using the proper blade for aluminum, cut to the desired length. Recommend using a 10 in.x 80 tooth medium aluminum saw blade.

CONFIGURATION OPTIONS



Review wire method to ensure clean installation prior to mounting extrusion.

NOTE: Additional wire methods include:
S1A, S1B, S2A, S2B: Connector/Wire Input only
P1A, P1B, P2A, P2B: Connector/Wire Input and Output

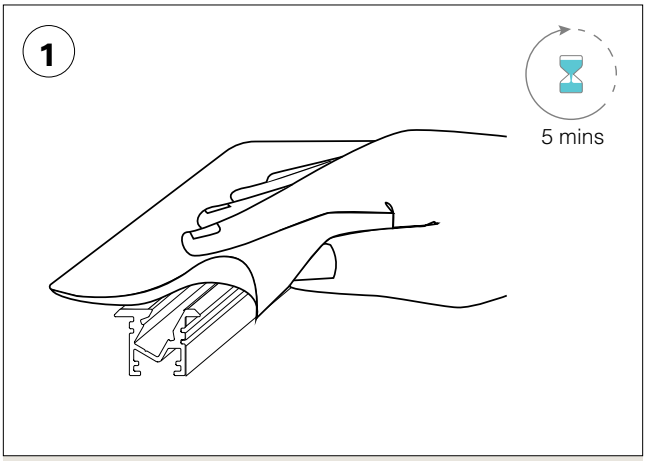
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MICRO 5 POP FLANGE

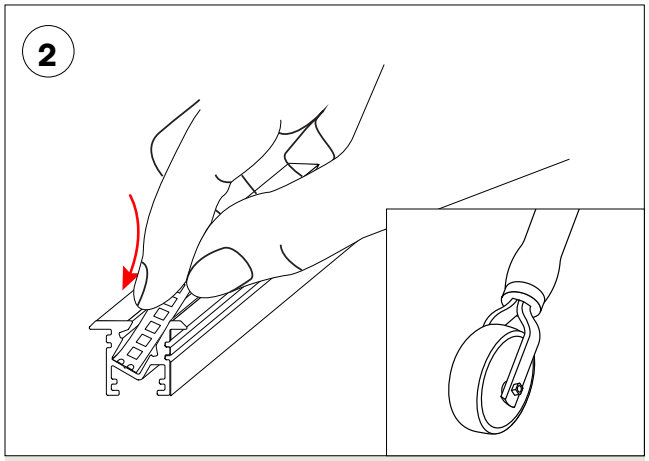
Linear Fixture Installation Instructions

LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

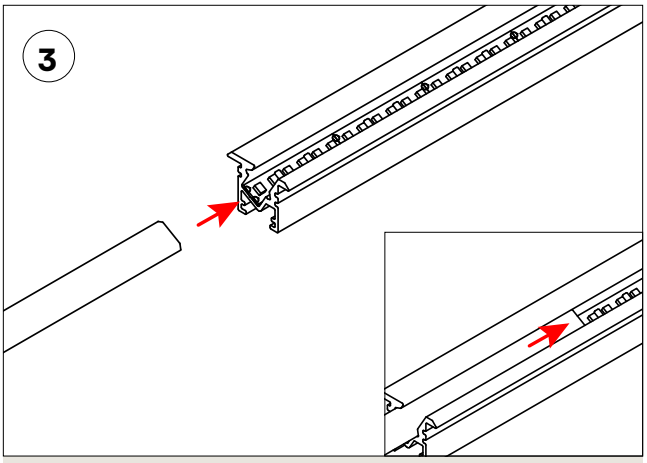
STRIP IN EXTRUSION



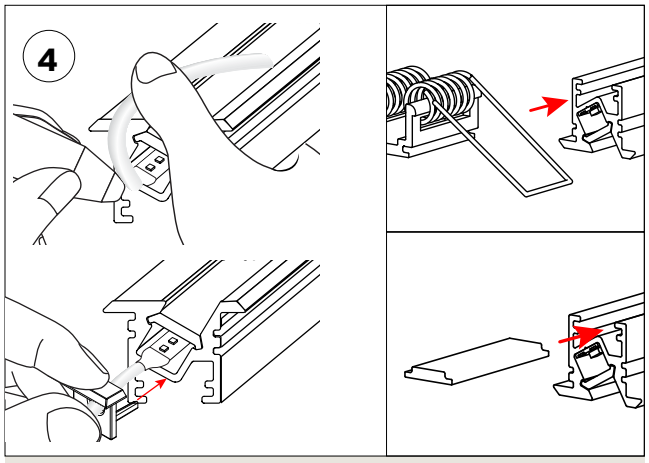
- Using a 50/50 alcohol mix throughly clean, the surface of the extrusion and the multi-tray surface. Allow time to dry (about 5 minutes).



- Gently place LED in extrusion/tray. Apply firm pressure to fully adhere to the extrusion. This reduces the possibility that dust and debris will contaminate the adhesive.
- Use the UNI-ROLLER tool to place MICRO 5 LED strip into extrusion housing. If needed, you may order additional UNI-ROLLER tools.



- Starting from one end of the extrusion, slide the lens into the grooved lip of the extrusion until secured in place.



- If installing with either the MAGNET MILLWORK or SPRING CLIP mount, install the clips prior to gluing the endcaps.
- Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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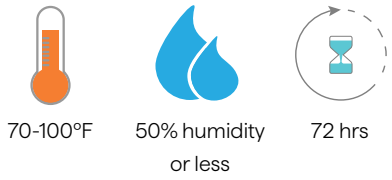
MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

SURFACE MOUNTING METHOD

SURFACE PREPARATION

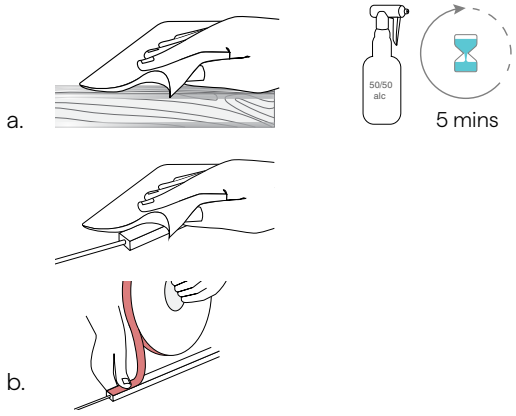
1



Temperature and environmental concerns:

- Ideal application environment is 70-100°F in 50% humidity or less.
- Minimum application temperature: 50°F
- This temperature and humidity should be maintained for 72 hours after application for maximum bond strength.

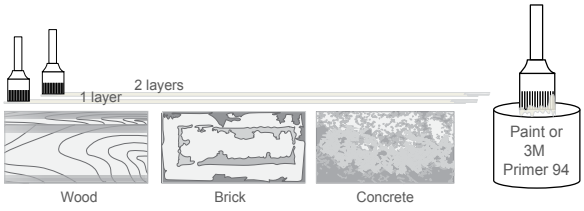
2



a. Using a 50/50 alcohol mix, thoroughly clean the backside of the fixture and the surface area where fixture will be installed. Allow 5 minutes to dry.

b. Peel back 0.5" of the VHB tape's protective film on one end and use firm pressure to adhere it to the desired surface, avoiding air bubbles. Continue peeling the film and adhering the tape in small sections until the entire length is installed.

3



For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

MATERIALS	SUGGESTED EPOXIES
Concrete, Stone, Cinderblock, Metal, and Brick	Loctite Metal and Concrete Two-Part Epoxy
ABS, Fiberglass, Plastic, and PVC	Loctite Plastic Two-Part Epoxy
Tile, Wood, Ceramic, Glass, or Metal	Loctite Clear Two-Part Epoxy
All Purpose	Strong Stik

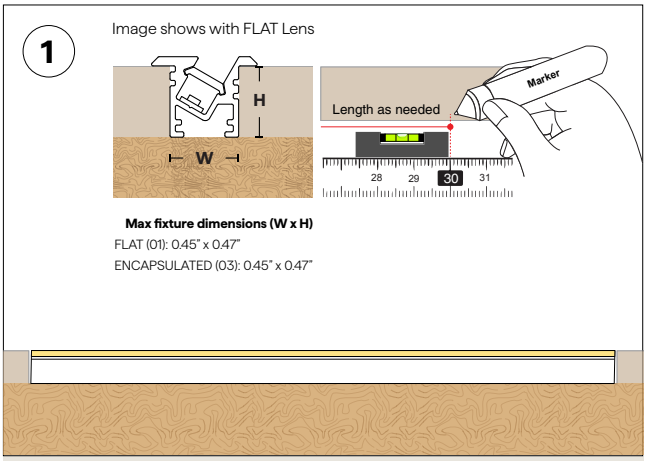
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MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

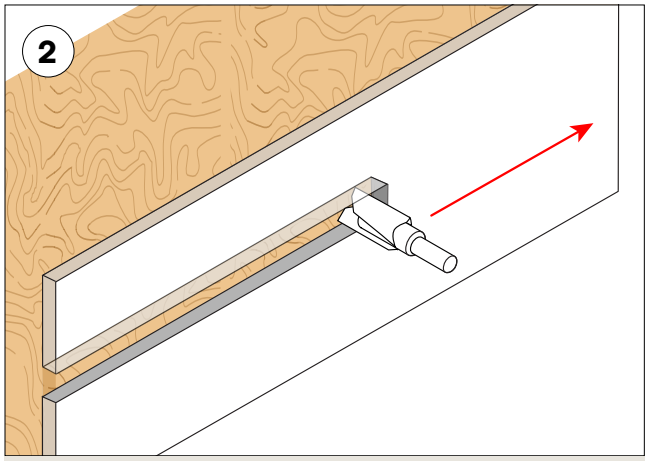
RECESSED MOUNTING METHOD: **SILICONE MOUNT MILLWORK**

- Apply silicone in well ventilated area

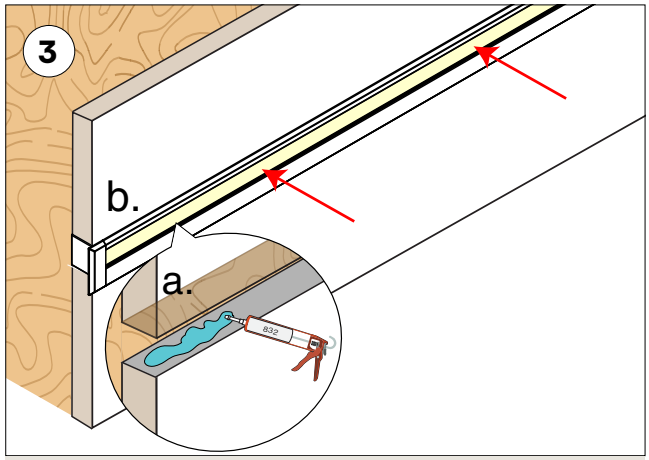


Determine the POP fixture(s) location and positioning on desired surface. Make any necessary reference markings.

NOTE: Depth of the channel in the millwork is dependent on overall height. Check spec sheet dimensions for the height and width of the specific fixture and mounting you are installing.



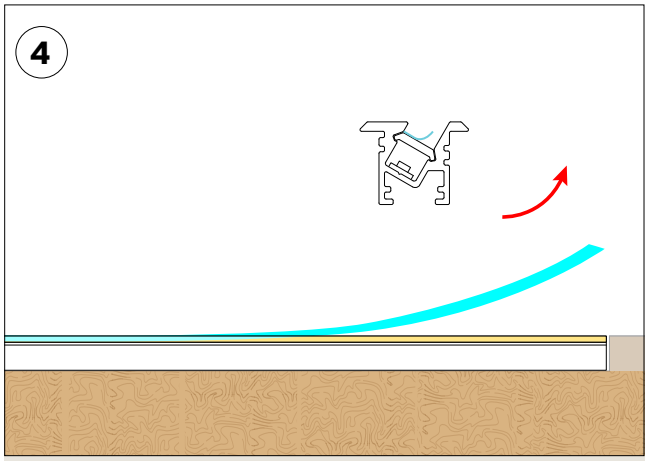
Route the material using a 15/32" or 1/2" router bit. Route or drill out any desired wireways.



a. Apply silicone to all the sides walls and bottom surface of the millwork

b. Place the fixture into the millwork. Wait until the silicone completely cures.

NOTE: Cure time is dependent on the type of silicone adhesive used. Refer to silicone product manufacturer for accurate drying time.



Remove protective film from the surface of the fixture's lens.

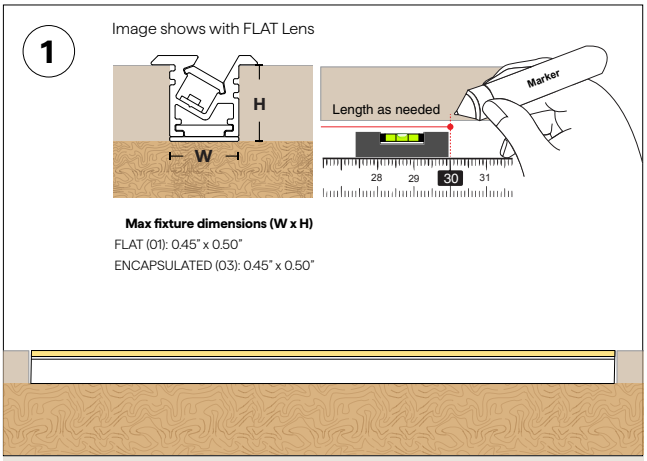
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MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

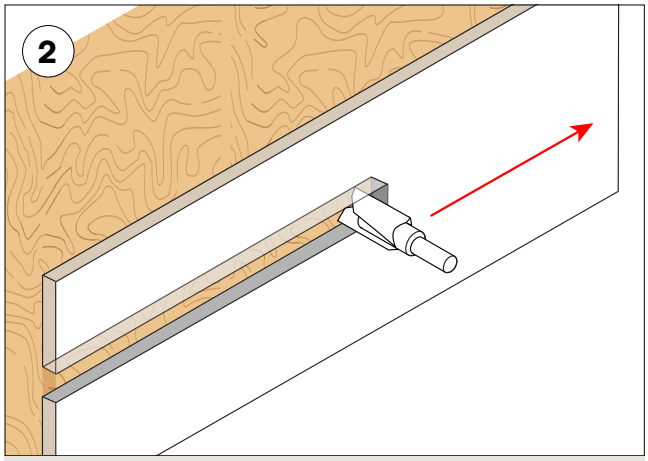
RECESSED MOUNTING METHOD: **MAGNET MOUNT MILLWORK**

- One magnet clip per foot.
- MMA-05 comes in 12" pieces; 4 provided for 4' or greater. 2 provided for 4' or less.
- MMA not required if surface is magnetic
- For NI installation, clips must be slide into the fixture before end caps are glued to the ends of the fixtures.

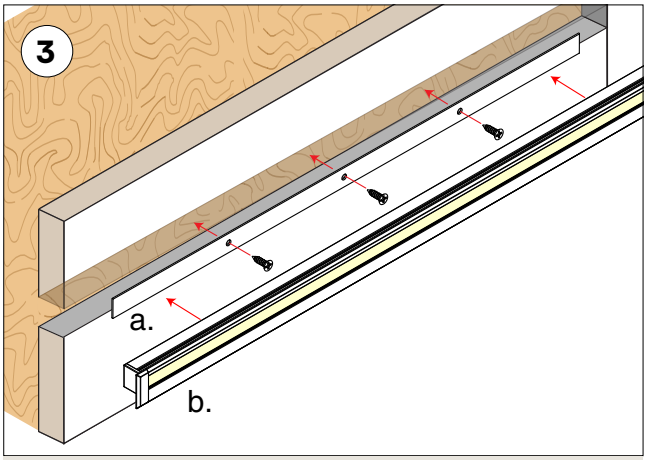


Determine the POP fixture(s) location and positioning on desired surface. Make any necessary reference markings.

NOTE: Depth of the channel in the millwork is dependent on overall height. Check spec sheet dimensions for the height and width of the specific fixture and mounting you are installing.

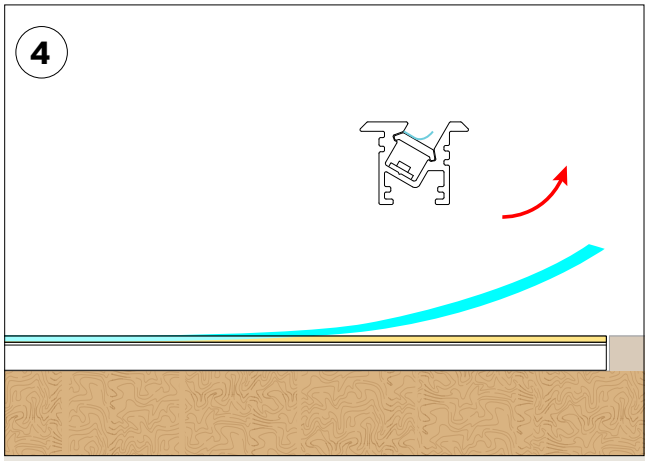


Route the material using a 15/32" or 1/2" router bit. Route or drill out any desired wireways.



a. Mount the magnet mount accessory bracket into the routed slot. Ensure screw head is flush with magnet mount bracket.

b. Place the assembled fixture onto the magnet mount bracket Magnets come pre-installed in POP extrusion.



Remove protective film from the surface of the fixture's lens.

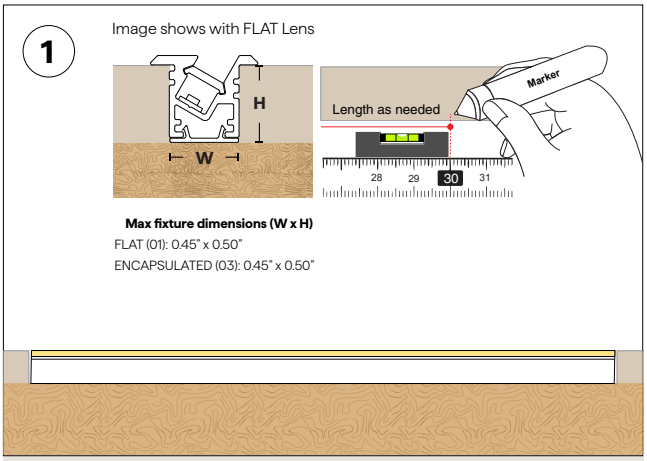
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MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

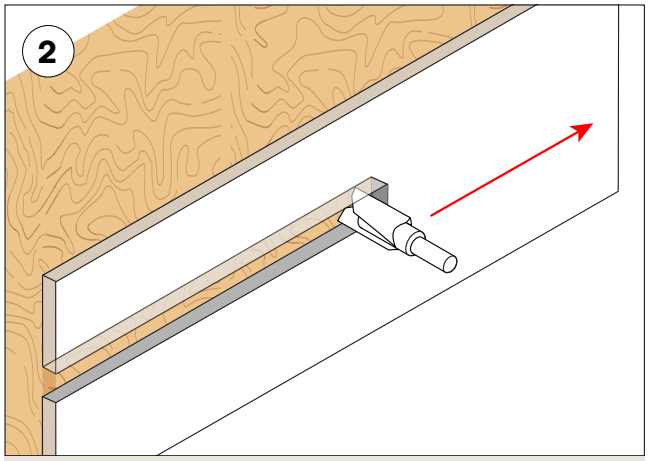
RECESSED MOUNTING METHOD: **PLASTIC CLIP MOUNT MILLWORK**

- 4 provided for 4' or greater. 2 provided for 4' or less.

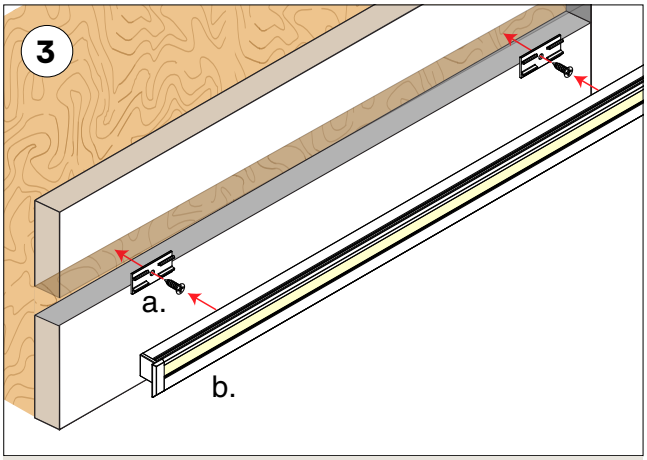


Determine the POP fixture(s) location and positioning on desired surface. Make any necessary reference markings.

NOTE: Depth of the channel in the millwork is dependent on overall height. Check spec sheet dimensions for the height and width of the specific fixture and mounting you are installing.

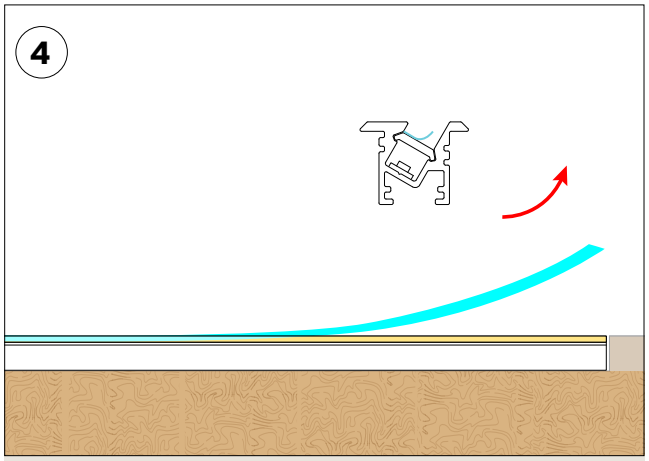


Route the material using a 15/32" or 1/2" router bit. Route or drill out any desired wireways.



a. Secure clips using the #6 flat head hardware provided.

b. Place POP extrusion into routed slote.



Remove protective film from the surface of the fixture's lens.

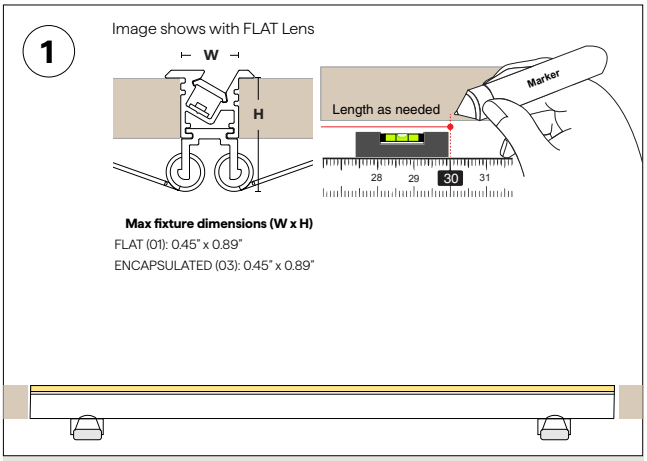
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MICRO 5 POP FLANGE

Linear Fixture Installation Instructions

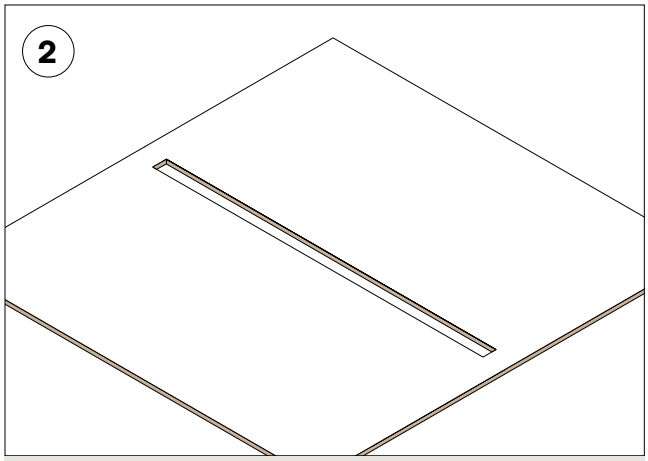
RECESSED MOUNTING METHOD: **SPRING MOUNT MILLWORK**

- 2 clips provided for 4' or less. 4 clips provided for greater than 4'
- For NI installation, clips must be slide into the fixture before end caps are glued to the ends of the fixtures.

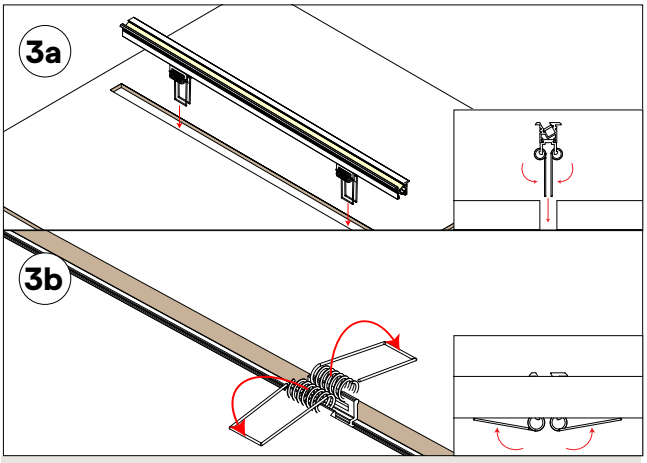


Determine the POP fixture(s) location and positioning on desired surface. Make any necessary reference markings.

NOTE: Depth of the channel is dependent on overall height. Check spec sheet dimensions for the height and width of the specific fixture and mounting you are installing.



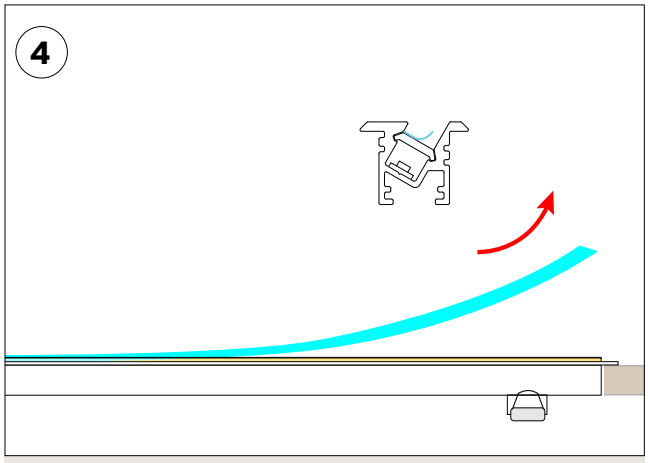
Cut the material so that there a slot for the fixture to be mounted into. Drill out any desired wireways.



a. Flip down the spring clip arms so that they can fit through the routed slot. Slowly push down on POP extrusion.

b. Once the spring clip arms have passed through the material, they will automatically "spring" back up, and grip onto the backside of material.

NOTE: Spring Clip comes preinstalled



Remove protective film from the surface of the fixture's lens.

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MICRO 5 POP FLANGE-ENCAPSULATED-DW(03)

Linear Fixtures Color Data

POPF-03-DW-2.0-24-ENC-TL

2361 K

CRI: 92.7

CRI R9: 64.3

TM30 Rf: 89.8

TM30 Rg: 103.5

CQS: 85.9

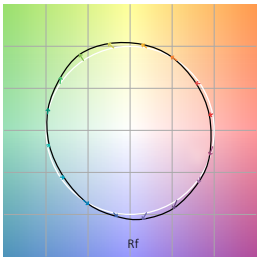
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Y: 0.411

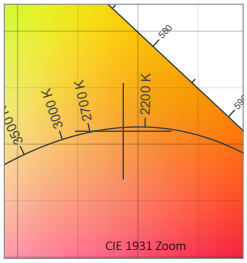
U: 0.280

V: 0.355

Δuv: -0.0011







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.9	95.7	94.6	93.5	92.7	95.0	92.5	83.6	64.3	87.8	94.1	82.5	94.4	95.5	90.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
83.8	92.3	83.9	85.3	87.3	83.4	80.2	84.9	93.9	88.4	88.4	88.5	89.2	85.7	84.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.4	91.5	83.9	89.3	91.3	89.0	88.3	91.2	94.1	91.9	88.5	88.3	90.1	85.0	91.1	86.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	91	-4%	3%
3	84	0%	8%
4	89	3%	6%
5	91	6%	5%
6	89	8%	0%
7	88	4%	-6%
8	91	1%	-6%
9	94	-2%	-2%
10	92	-4%	3%
11	89	0%	8%
12	88	4%	5%
13	90	6%	-6%
14	85	6%	-9%
15	91	2%	-6%
16	87	-1%	-10%

POPF-03-DW-2.0-27-ENC-TL

2652 K

CRI: 92.3

CRI R9: 65.6

TM30 Rf: 90.3

TM30 Rg: 102.2

CQS: 88.6

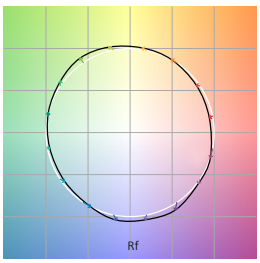
X: 0.463

Y: 0.409

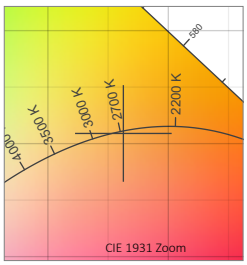
U: 0.265

V: 0.351

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.4	94.8	93.6	93.2	92.1	93.0	93.5	85.1	65.6	85.8	93.2	77.9	93.7	95.2	90.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
87.9	95.8	84.5	85.9	89.2	86.9	84.3	89.0	95.6	90.4	90.5	91.1	92.0	87.9	87.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.8	92.1	86.3	90.1	92.3	90.8	90.6	93.3	94.5	90.6	86.1	87.7	91.8	88.5	91.3	86.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	86	-1%	7%
4	90	2%	5%
5	92	5%	5%
6	91	7%	0%
7	91	3%	-5%
8	93	0%	-4%
9	95	-3%	-1%
10	91	-3%	5%
11	86	-1%	10%
12	88	5%	4%
13	92	5%	-2%
14	88	6%	-6%
15	91	1%	-5%
16	86	-1%	-11%

POPF-03-DW-2.0-30-ENC-TL

2941 K

CRI: 95.3

CRI R9: 88.0

TM30 Rf: 93.7

TM30 Rg: 101.2

CQS: 93.1

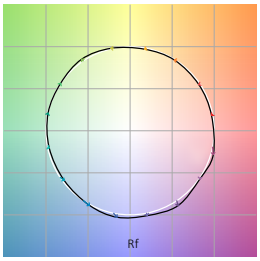
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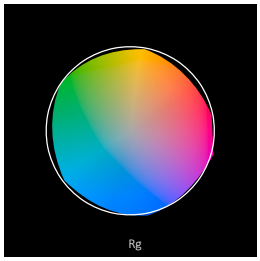
Y: 0.411

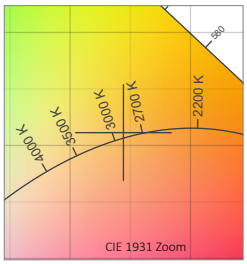
U: 0.252

V: 0.350

Δuv: 0.0019







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.7	95.2	91.5	97.0	95.0	92.7	97.7	96.5	88.0	87.0	96.4	76.4	96.0	94.3	95.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
95.6	97.5	87.9	89.5	92.8	92.0	91.4	95.5	94.9	93.9	94.0	95.0	95.9	94.8	95.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.9	96.7	93.4	93.9	94.4	95.3	95.2	97.5	96.0	90.7	87.9	90.0	95.6	92.6	95.5	89.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	-1%	-1%
2	97	-2%	0%
3	93	-1%	3%
4	94	-1%	2%
5	94	1%	3%
6	95	3%	1%
7	95	0%	-1%
8	98	0%	-2%
9	96	-2%	1%
10	91	-2%	6%
11	88	1%	9%
12	90	4%	5%
13	96	3%	0%
14	93	6%	-2%
15	96	1%	-2%
16	89	3%	-8%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-08-08-24

MICRO 5 POP FLANGE-ENCAPSULATED-DW(03)

Linear Fixtures Color Data

POPF-03-DW-2.0-40-ENC-TL

3951 K

CRI: 97.8

CRI R9: 98.5

TM30 Rf: 92.3

TM30 Rg: 99.7

CQS: 95.1

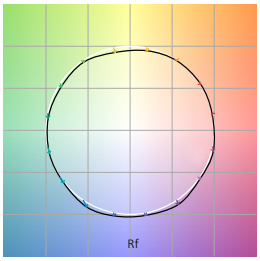
X: 0.382

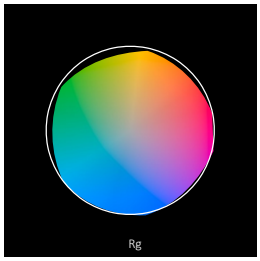
Y: 0.376

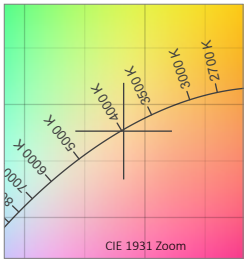
U: 0.226

V: 0.334

Δuv: -0.0007







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.3	99.8	96.4	98.6	97.3	96.2	98.0	97.7	98.5	97.6	98.3	74.0	98.8	97.2	96.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.0	98.6	90.2	89.3	93.1	96.1	97.6	98.7	97.9	98.2	98.5	99.8	99.8	98.1	96.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.6	97.0	96.3	92.9	91.3	96.0	93.8	92.5	89.1	87.7	87.0	92.6	94.0	94.4	90.8	90.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	1%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-2%
5	91	-6%	-1%
6	96	-2%	1%
7	94	-3%	3%
8	92	-2%	4%
9	89	-1%	8%
10	88	0%	8%
11	87	4%	8%
12	93	3%	2%
13	94	3%	-2%
14	94	5%	-1%
15	91	1%	-2%
16	90	2%	-5%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-08-08-24