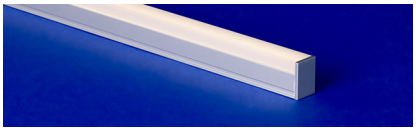
MICRO 5 ALTA-DROP (04) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed





- MICRO 5 Series linear LED fixture engineered for exceptional light quality and even distribution, seamlessly blending with millwork details
- Sleek flat profile and three-sided dropped lens
- 62% smaller than ESSENTIALS-TRE3
- Delivers equivalent efficacy as standard size fixtures
- Choose from diffused or frosted lens options for varying diode visibility and beam angles
- Ideal for surface mounted or recessed installations that call for low-profile light in small areas
- Mounting options include a mounting clip, magnet option, or TBAR clip, making installation and repositioning effortless
- Used in applications where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled
- Consult factory for field assembly options

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

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

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: **ALTA-04-DW-2.0-20/27-DRY-FR-S1-BW-CLS-WH-CL2-SST-ST-48"-E**

1 PRODUCT

ALTA-04-DW
ALTA-04-DW-USA

Select USA option for BAA and BABA projects. Only DRY ratings apply, contact factory for DMP options.

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

18/30	1800K/3000K
18/35	1800K/3500K
20/27	2000K/2700K
20/30	2000K/3000K
24/40	2400K/4000K
27/40	2700K/4000K
27/55	2700K/5500K

4 RATED

DRY	IP20
DMP	IP54

5 LENS

DF	Diffused
FR	Frosted

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)

S1	End Feed
S2	Bottom Feed

For continuous mounting, consider bottom feed.
When using TBC Mounting, a bare wire S2 wire feed is recommended.
See install instructions for details.

PASS THROUGH (Input/output)

P1	End Feed
P2	Bottom Feed

For continuous mounting, consider bottom feed.
When using TBC Mounting, a bare wire S2 wire feed is recommended.
See install instructions for details.

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

SST	Stainless Steel
MG	Magnet
TBC-09	9/16" Flat or Tegular TB-Grid
TBC-10	15/16" Flat or Tegular TB-Grid

12 FINISH

ST	Satin
BK	Black
CU	Custom

Custom finishes require a longer lead time, consult factory

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

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

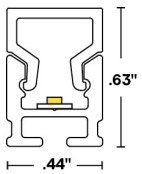
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Specification subject to change. Rev-07-06-26

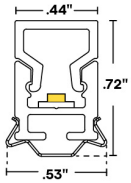
MICRO 5 ALTA-DROP (04) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

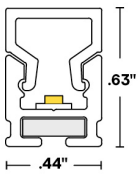
1 PRODUCT - DIMENSIONS



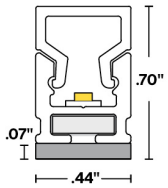
Profile with drop lens



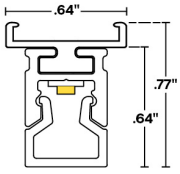
Profile with drop lens and stainless steel mounting clip



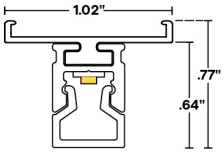
Profile with drop lens and magnet mounting clip



Profile with drop lens, magnet mount clip, and magnet mount accessory



Profile with TBC-09



Profile with TBC-10

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with ALTA-04-DW-2.0-**-DRY

	2000K		2700K		3000K		4000K		5500K	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	100	94	117	98	120	98	128	97	135	97
DF	79	94	92	98	95	98	102	97	107	97

5 DIODE VISIBILITY

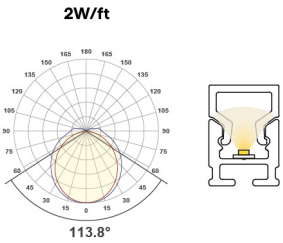


DF - Diffused lens

FR - Frosted lens

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.



DF lens at 3000K

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Specification subject to change. Rev-07-06-26

MICRO 5 ALTA-DROP (04) FOR TUNABLE APPLICATIONS

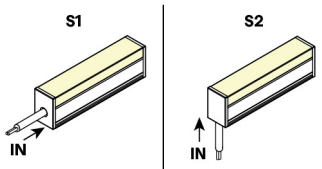
24VDC Linear Fixtures - Surface & Recessed

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
DRY	Ambient Operating Temp - Recessed	**	**	**	**
	Ambient Operating Temp - Surface	-4°F	140°F	-4°F	120°F
DMP	Ambient Operating Temp - Recessed	**	**	**	**
	Ambient Operating Temp - Surface	-4°F	140°F	-4°F	120°F

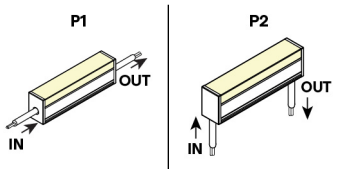
6 WIRE INPUT/OUTPUT

SINGLE (Input only)



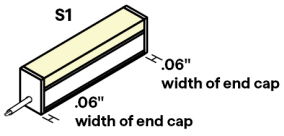
End Feed | Bottom Feed

PASS THROUGH (Input/Output)

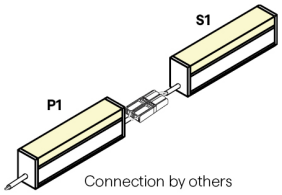


End Feed | Bottom Feed

CONFIGURATION OPTIONS

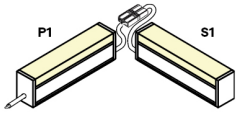


Single End Feed



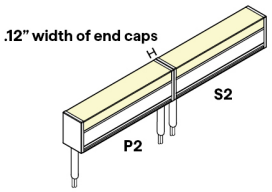
Connection by others

Non-Continuous End Feed

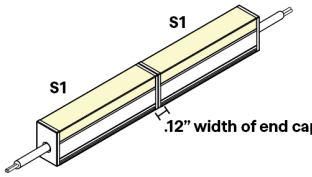


Connection by others

Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

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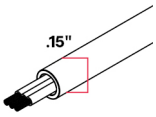
MICRO 5 ALTA-DROP (04) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

7/8 CONNECTOR/WIRE – IN/OUT

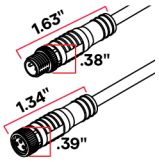
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out

BW



Bare Wire 24"
22 AWG

CON6/CON24



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

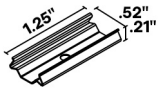
9 WIRE COLOR

White

Black

11 MOUNTING

SST



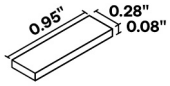
Stainless Steel Clip

2 pieces of hardware provided for 4' or less; 4 pieces provided for greater than 4'

To order separately use SST-08

Each clip comes with a #4 x 5/8" Flat Head SS

MG

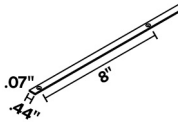


Magnet Clip

One MG provided per foot

To order separately use MG-03

MMA-03



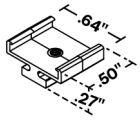
Magnet Mount
Accessory for MG-03

96" lengths | Sold separately, to order use MMA-03

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

Required when mounting to a non-magnetic surface

TBC-09



Plastic T-Bar Clip

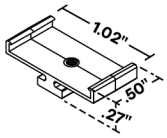
Use on 9/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture.

To order separately use TBC-09

Each pair of clips comes with M2.5 x 4mm

TBC-10



Plastic T-Bar Clip

Use on 15/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture.

To order separately use TBC-10

Each pair of clips comes with M2.5 x 4mm

12 FINISH

Satin

Black

Custom finishes require a longer lead time, consult factory

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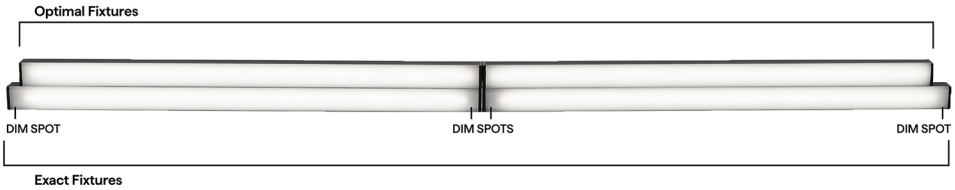
MICRO 5 ALTA-DROP (04) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

15 EXACT/OPTIMAL FIXTURE LENGTH

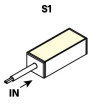
E/O Length Calculator → E/O Explained →

Exact fixtures are the exact length specified. 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.

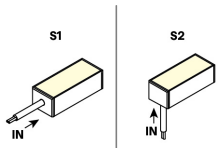
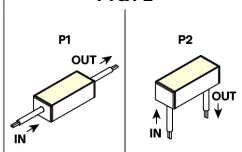


DW DRY DMP LENGTHS BY INCH

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	S1 & S2 		P1 & P2 	
	End Feed	Bottom Feed	End Feed	Bottom Feed
12"	10.48"		10.83"	
13"	12.48"		12.83"	
14"	12.48"		12.83"	
15"	14.48"		14.83"	
16"	14.48"		14.83"	
17"	16.48"		16.83"	
18"	16.48"		16.83"	
19"	18.48"		18.83"	
20"	18.48"		18.83"	
21"	20.48"		20.83"	
22"	20.48"		20.83"	
23"	22.48"		22.83"	
24"	22.48"		22.83"	
36"	34.48"		34.83"	
48"	46.48"		46.83"	
60"	58.48"		58.83"	
72"	70.48"		70.83"	
84"	82.48"		82.83"	
96"	94.48"		94.83"	

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR
	MICRO 5-DW Tunable Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle

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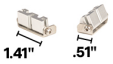
MICRO 5 ALTA-DROP (04) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR
	MICRO 5-DW Tunable Applications
0-10V	QT-CAB-eLED+TW QTM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8-AWN
DALI-2: DT6 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT6 QTM-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
SCENE App Dimmed	Non-Dim Power Supply with TW App Dongle

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-S



Adjustable mounting bracket - Small

VHB



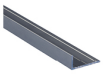
Double sided mounting tape

NJ-MICRO



J Mounting Bracket

BL-MICRO



Backwards L Mounting Bracket

NL-MICRO



L Mounting Bracket

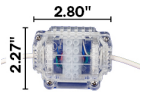
SD-L-MICRO



L Mounting Bracket

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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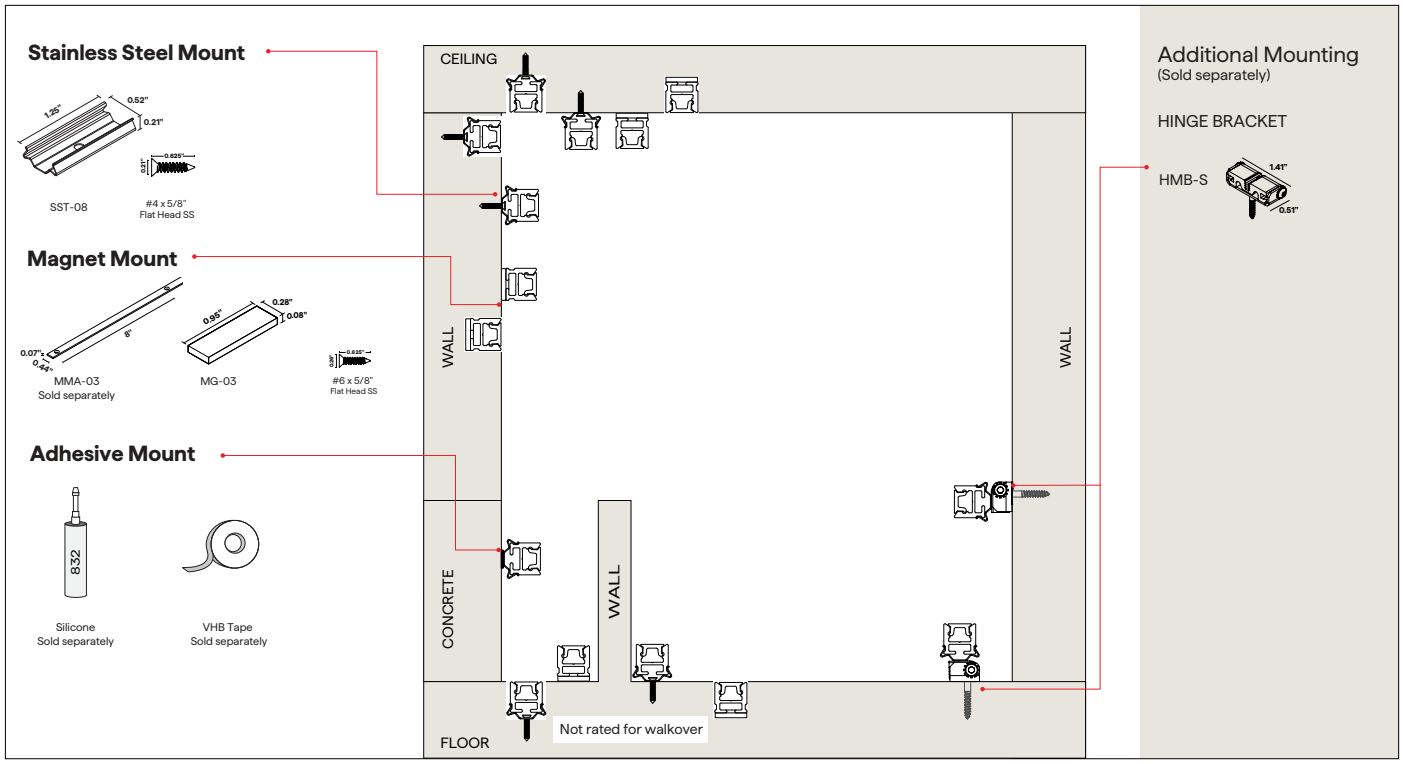
MICRO 5 ALTA

Factory and Field Assembled 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
- Surface mount or 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 2-3)
- Cutting & Configuration Options (page 4-5)
- Surface Preparation & Assembly (page 6-9)

Surface Mounting Method

- VHB Mount (page 10)
- Silicone Mount (page 11)
- Screw Mount (page 12)
- T-Bar Clip Mount (page 13)
- Magnet Mount (page 14)

Recessed Mounting Method

- Screw Mount : Millwork (page 15)
- Magnet Mount : Millwork (page 16)

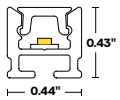
Louver Mounting Method

- Clip-Over Louver (page 17)
- Screw Mount (page 18)

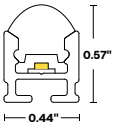
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MICRO 5 ALTA

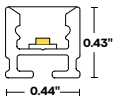
Factory and Field Assembled Installation Instructions



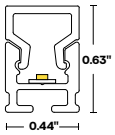
ALTA-FLAT (01)



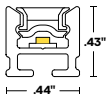
ALTA-OPTICS (02)



ALTA-ENCAPSULATED (03)



ALTA-DROP (04)

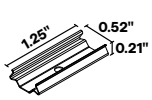


ALTA-LOUVER (05)

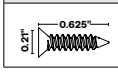
COMPONENTS & HARDWARE

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

STAINLESS STEEL CLIP

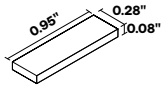


SST-08

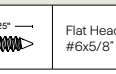
Included	
	Flat Head Screw #4x5/8"

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

MAGNET CLIP

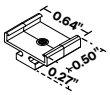


MG-03

Included	
	Flat Head Screw #6x5/8"

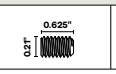
- One magnet clip per foot

PLASTIC T-BAR CLIP



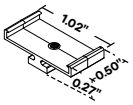
TBC-09

9/16" Flat or Tegular TB- grid clips

Included	
	M2.5 x 4mm set screw

- 2 clips provided for 12", 1 clip provided for each additional 12" or less length

PLASTIC T-BAR CLIP



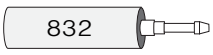
TBC-10

Included	
	M2.5 x 4mm set screw

- 2 clips provided for 12", 1 clip provided for each additional 12" or less length

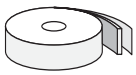
ADHESIVE SOLD SEPARATRLY

SILICONE



DOWSIL 832

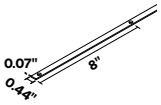
VHB TAPE;
sold in 15" increments



TAPE-VHB-IP20

ACCESSORIES SOLD SEPARATELY

MAGNET MOUNT ACCESSORY; sold individually

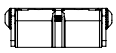


Included
2 #6x5/8" Flat Head Screws

MMA-03

- MMA-03 comes in 96" pieces; can be cut into smaller pieces, if desired
- Required when mounting to a non-magnetic surface

HINGE BRACKET; sold individually



Included
• 3/4" long mount screw • 1/4" #4 clip mount screw

HMB-S

REQUIRED ACCESSORY

RUBBER ROLLER



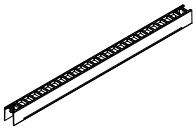
Included
Included and required for all MICRO 5 field assembled options

UNI-ROLLER

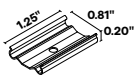
- Roller tool used to lay MICRO 5 LED strip into extrusion housing. To order additional use UNI-ROLLER

MICRO EXTERNAL LOUVER KIT

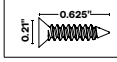
Sold separately

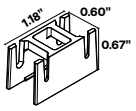


12.25" External Louver



SST-01

Included	
	(2X) Flat Head Screw #4x5/8"



Louver Connector

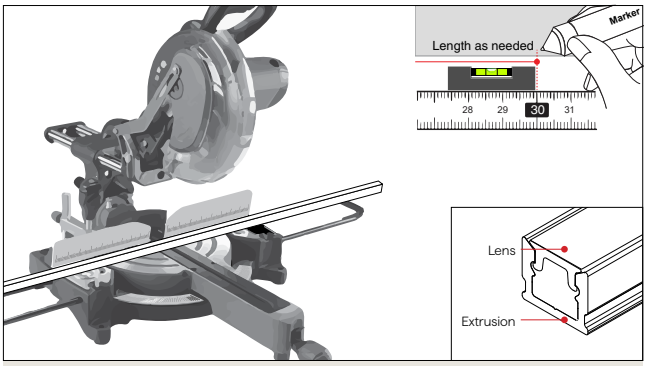
Included	
	(2X) Gaskets

- 12.25" external louver, louver connector, (2x)SST-01, (2x) Flat Head Screw #4x5/8", and (2x)gaskets

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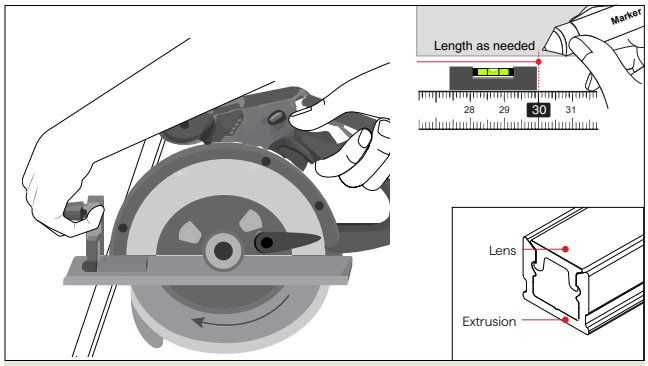
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

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

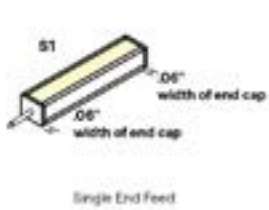


For straight runs, measure LED extrusion to desired length and cut it with a circular saw.

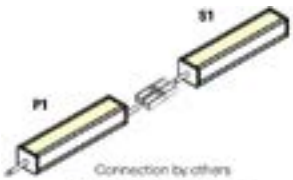
NOTE: Using the proper blade for aluminum, cut to the desired length. Recommend using a 10 in.x 80 tooth medium aluminum saw blade.

CONFIGURATION OPTIONS

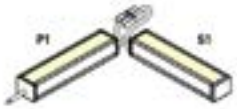
ALTA-FLAT



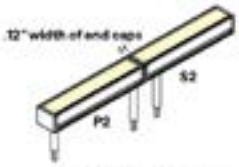
Single End Feed



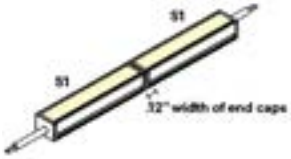
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous End Feed

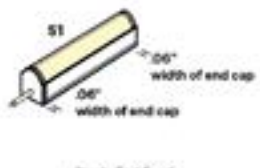


Continuous Bottom Feed

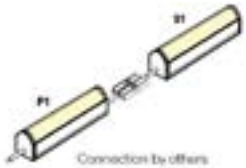


Continuous End to End Feed

ALTA-OPTICS



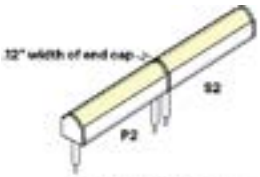
Single End Feed



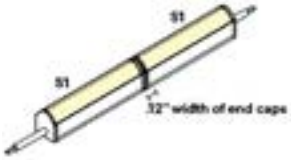
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous Corner Feed



Continuous Bottom Feed



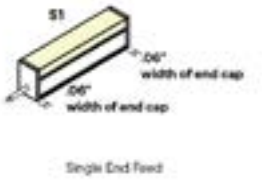
Continuous End to End Feed

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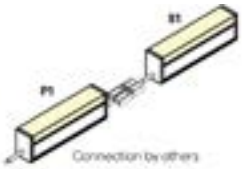
MICRO 5 ALTA

Factory and Field Assembled Installation Instructions

ALTA-DROP



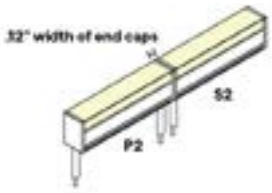
Single End Feed



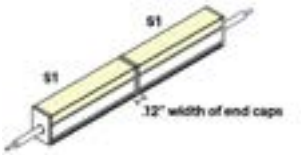
Non-Continuous End Feed



Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

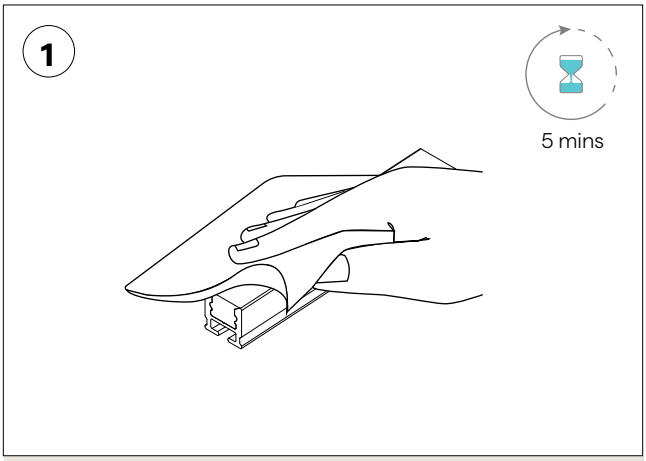
Review wire method to ensure clean installation prior to mounting extrusion.

NOTE: Additional wire methods include:
S1, S2 : Connector/Wire Input only
P1, P2 : Connector/Wire Input and Output

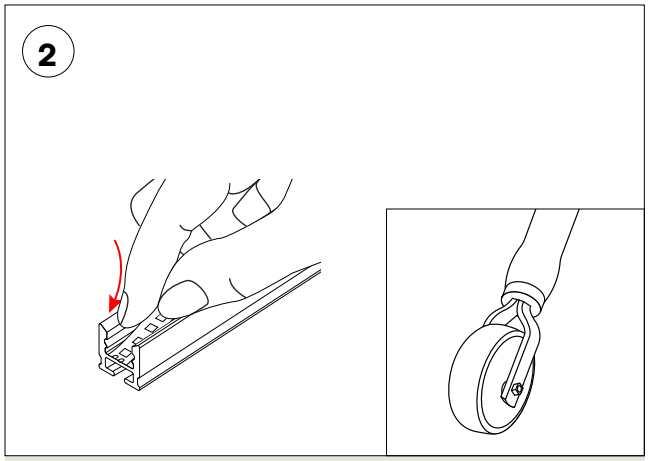
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LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

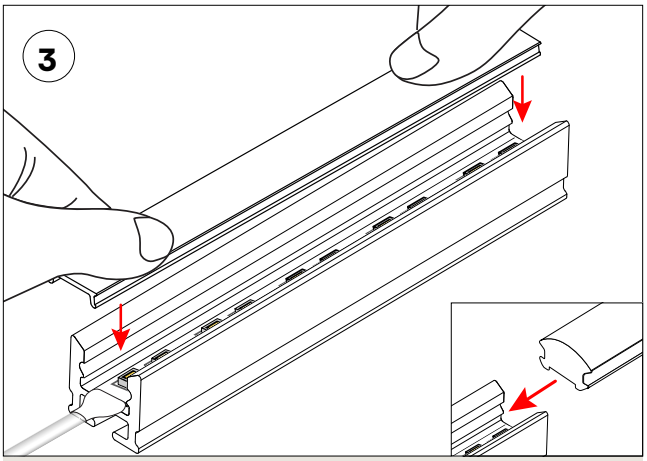
STRIP IN EXTRUSION



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).

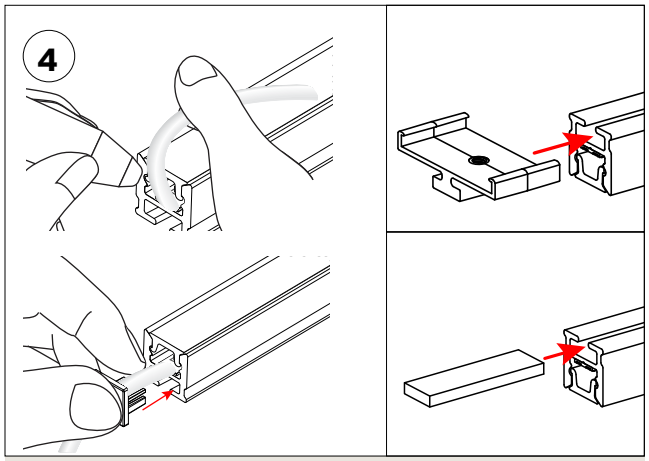


- Gently place LED in extrusion/tray. Apply firm pressure to fully adhere to the extrusion. This reduces the possibility that dust and debris will contaminate the adhesive.
- Use the UNI-ROLLER tool to place MICRO 5 LED strip into extrusion housing. If needed, you may order additional UNI-ROLLER tools.



Flat Lenses: Apply uniform pressure until the extrusion and lens snap securely together.

Optical, Drop, and Inner Louver Lens: Starting from one end of the extrusion, slide the lens into the grooved lip of the extrusion until secured in place.



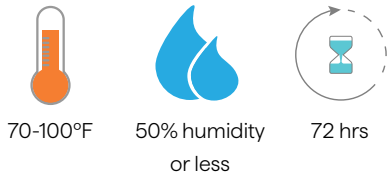
- If using the following mounting methods: TBAR CLIPS, MAGNET MOUNT, or MAGNET MILLWORK, install the clips prior to gluing the endcaps.
- Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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SURFACE MOUNTING METHOD

SURFACE PREPARATION

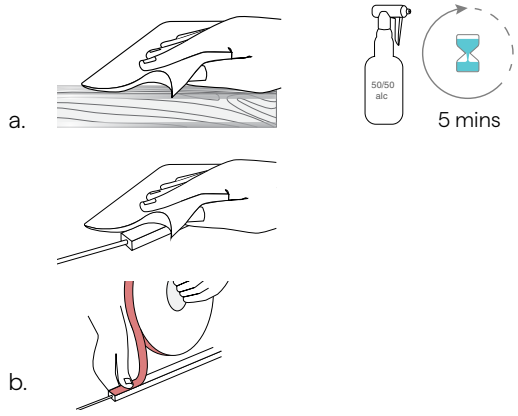
1



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.

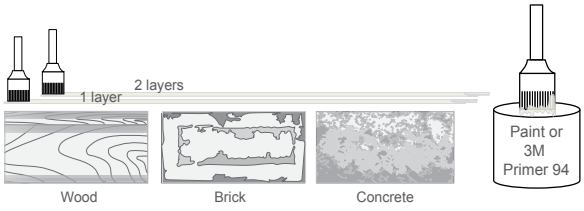
2



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



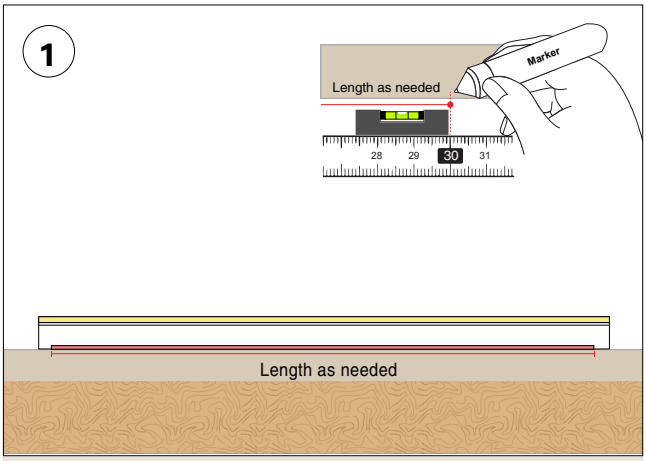
For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

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

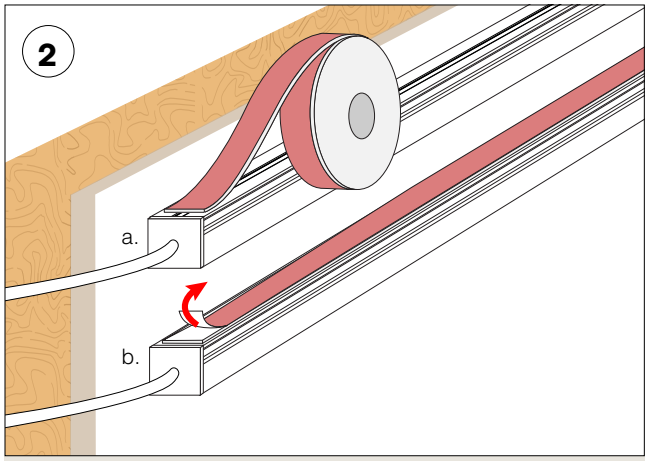
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SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength.

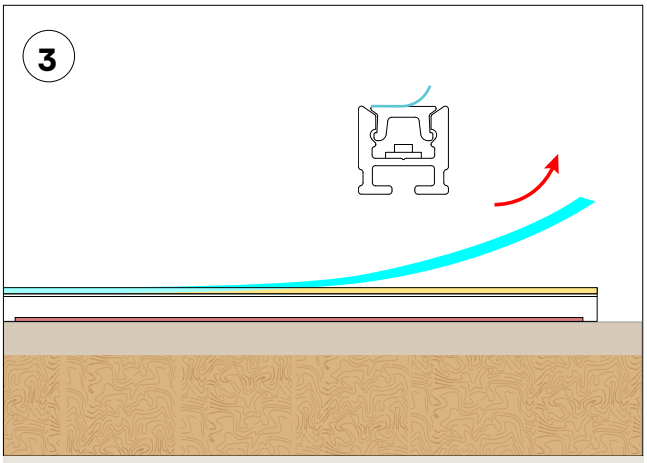


Determine the ALTA fixture(s) location and positioning on desired surface before adhering Fixture to surface. Make any necessary reference markings to indicate fixture placement.



a. To adhere the VHB adhesive, peel the white film back while evenly applying the tape to the mounting side of the fixture. The red side should be visible.

b. Remove the red film and position fixture in place according to your previous reference marking(s).



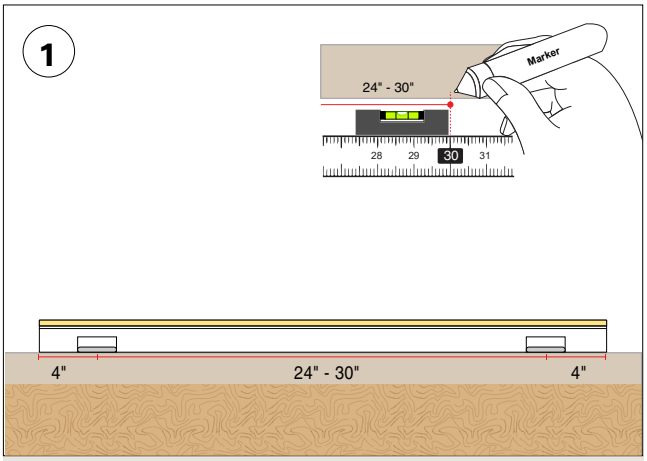
Remove protective film from the surface of the fixture's lens.

NOTES: *EPOXY ALTERNATIVE: For improved bonding strength, apply a small amount of epoxy at each end. Refer to table on page 6 for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*

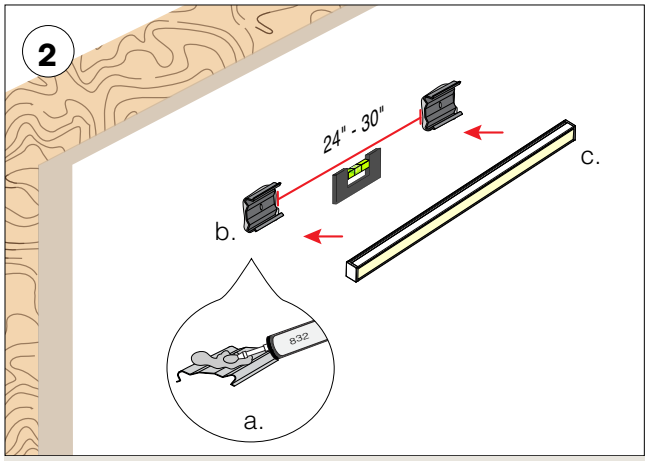
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SURFACE MOUNTING METHOD: **SILICONE**

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



Determine the ALTA fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

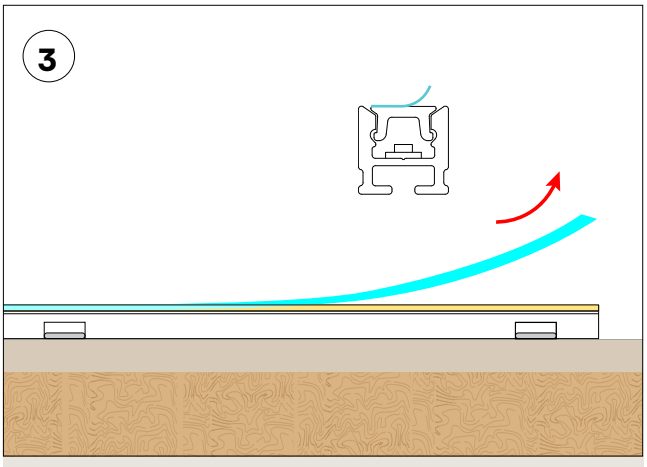


a. Firmly press the silicone-coated clips on the marked reference points.

b. Wait for silicone adhesive to cure completely before snapping fixture into place.

c. Snap fixture onto clips.

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

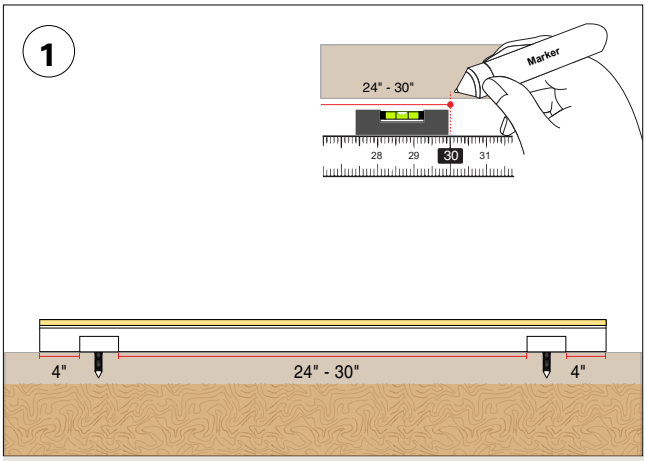


Remove protective film from the surface of the fixture's lens.

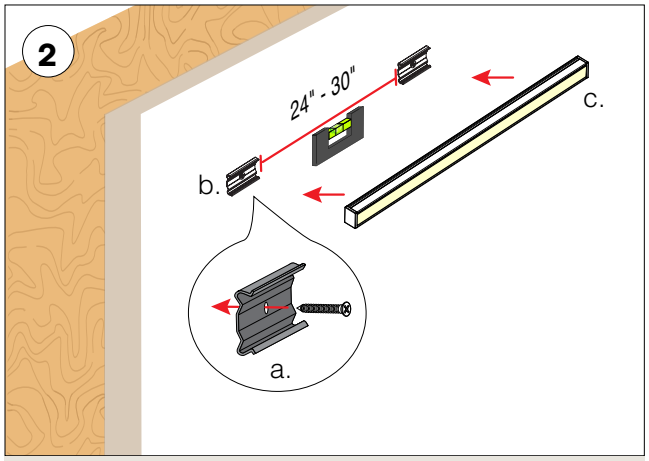
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SURFACE MOUNTING METHOD: **SCREW MOUNT**

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



Determine the ALTA fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

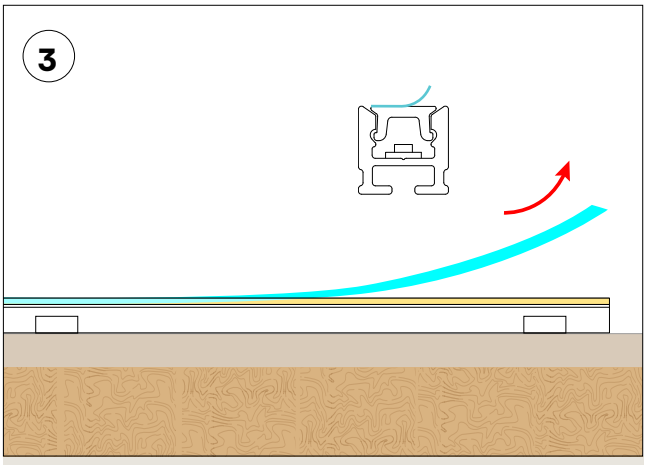


a. Secure clips using the #4 flat head hardware provided.

b. Ensure the screw head is flush with the clip's base.

c. Snap fixture onto clips.

NOTE: *Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.*

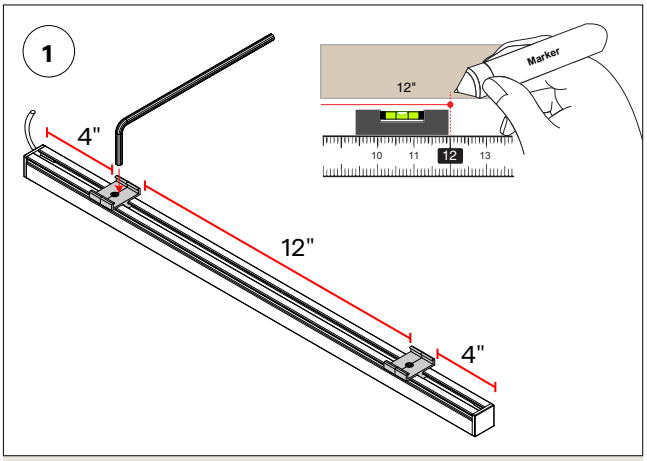


Remove protective film from the surface of the fixture's lens.

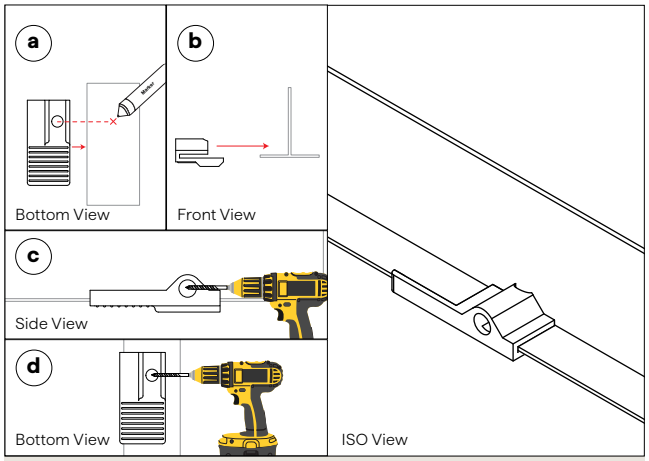
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SURFACE MOUNTING METHOD: **T-BAR CLIPS**

- 2 clips provided for 12", 1 clip provided for each additional 12" or less length.
- For NI installation, clips must be slide into the fixture before end caps are glued to the ends of the fixtures.



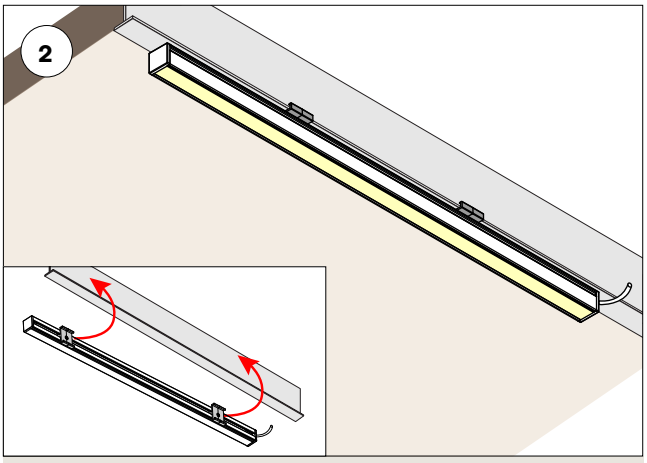
Determine the ALTA extrusion(s) location and positioning on desired surface. Make any necessary reference markings to indicate where each clip is to be secured in place. Adjust the preinstalled T-Bar Clips by loosening the screws to slide into desired position. Recommended 4" from each end and 12" apart.



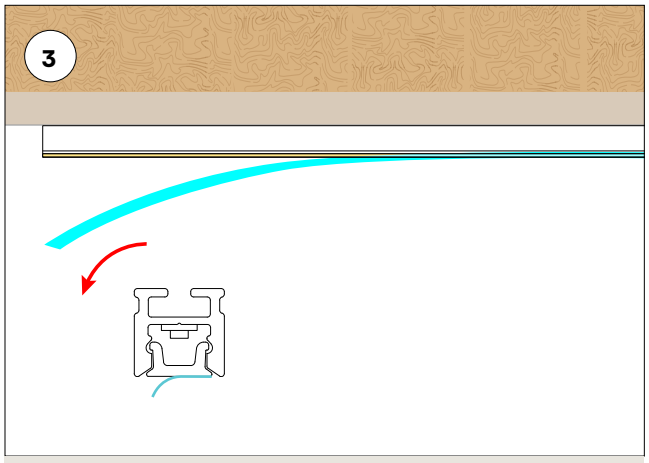
OPTIONAL - REQUIRED FOR S2/P2

Use provided jig to drill a hole in the t-bar ceiling grid, which will allow the wire to feed into the ceiling.

a. Mark where wire will go through the T-Bar.
b. Slide T-Bar Drill jig over T-Bar.
c. Using a 3-16" Drill bit drill through the side hole.
d. Then using a 3-16" Drill bit drill through the bottom hole.



Snap extrusion onto T-BAR.

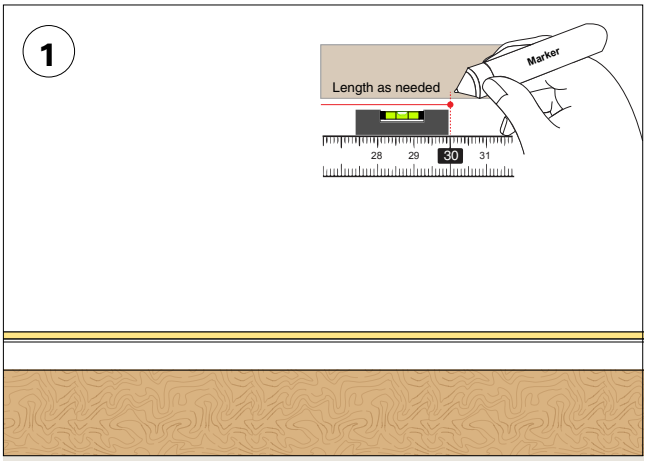


Remove protective film from the surface of the extrusion's lens.

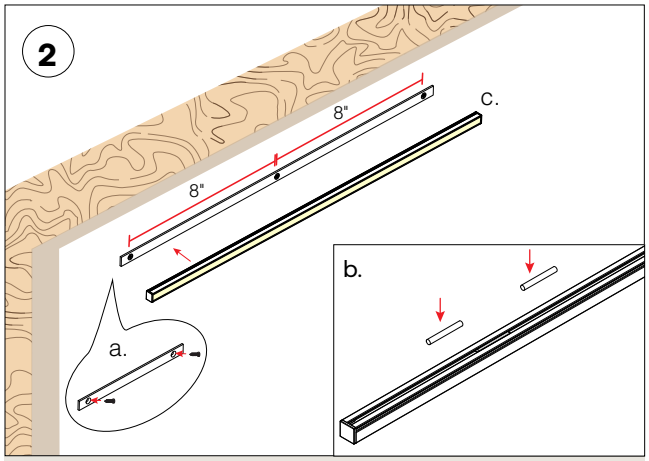
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SURFACE MOUNTING METHOD: **MAGNET MOUNT**

- MMA-03 comes in 96" pieces; use at least one clip per foot.
- MMA-03 can be cut into smaller pieces, if desired.
- For NI installation, clips must be slide into the fixture before end caps are glued to the ends of the fixtures.



Determine the ALTA fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.

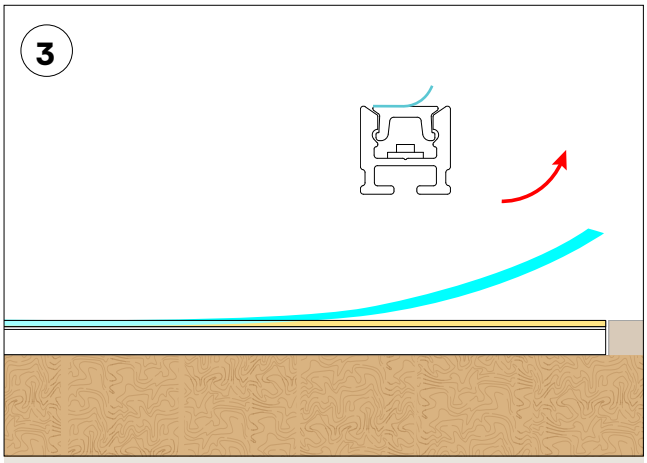


a. Use the #6 Flat head screws, mount screws into the magnet bracket through the drilled holes

b. Adjust the preinstalled magnet location by placing the rubber stoppers in the track. Move the magnet by pushing the rubber stoppers. Remove the rubber stoppers after use.

c. Place the assembled fixture onto the magnet mount bracket.

NOTE: *The magnet clips should be offset to the flat heads used to secure the bracket, to maximize magnetic connection.*

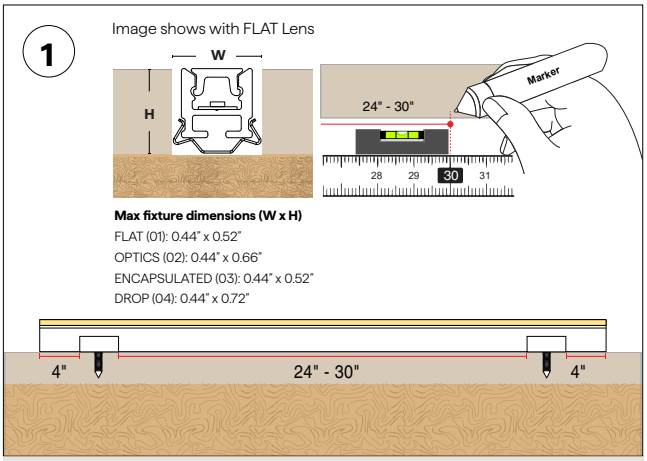


Remove protective film from the surface of the fixture's lens.

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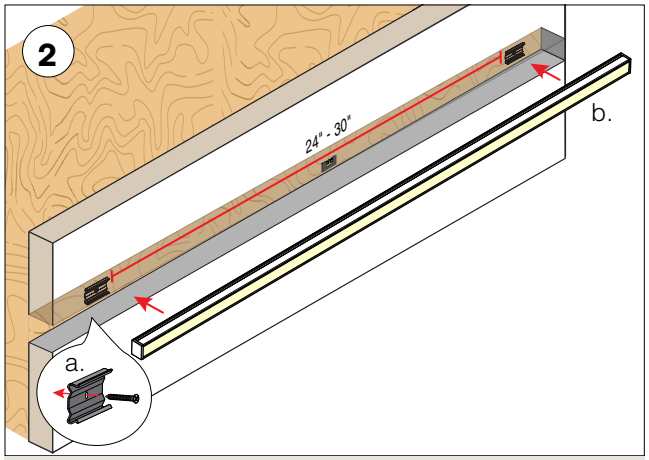
RECESSED MOUNTING METHOD: **SCREW MILLWORK**

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



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

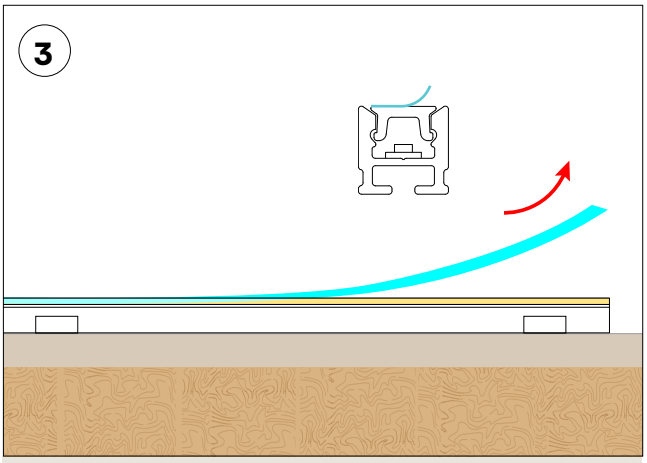
NOTE: *Depth of the channel in the millwork is dependent on overall height with the Stainless Steel Mounting Clip. Check spec sheet dimensions for the height and width of the specific fixture and mounting you are installing.*



a. Mount the #4 flat head screw into the clip.

c. Snap the assembled fixture onto the clip

NOTE: *If surface application requires a longer screw, the screw size must be a #4 Flat Head. Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.*

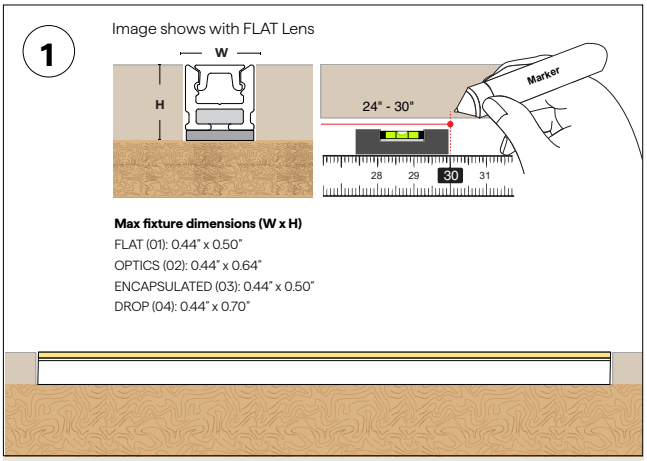


Remove protective film from the surface of the fixture's lens.

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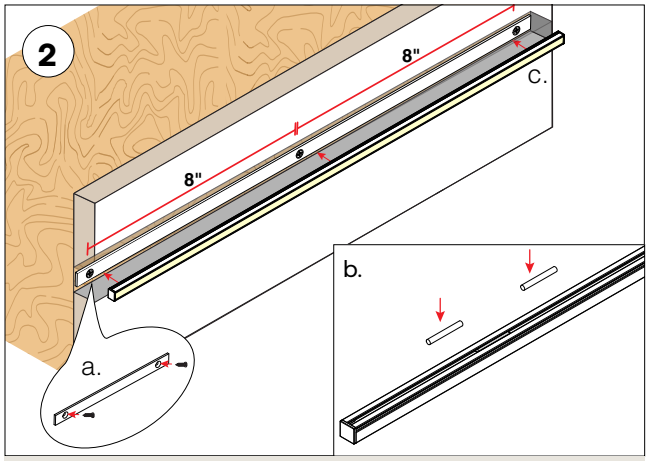
RECESSED MOUNTING METHOD: **MAGNET MILLWORK**

- MMA-03 comes in 96" pieces; use at least one clip per foot.
- MMA-03 can be cut into smaller pieces, if desired.
- For NI installation, clips must be slide into the fixture before end caps are glued to the ends of the fixtures.



Determine the ALTA 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 with the Magnet Clip and Magnet Mount Accessory. Check spec sheet dimensions for the height and width of the specific fixture and mounting you are installing.*

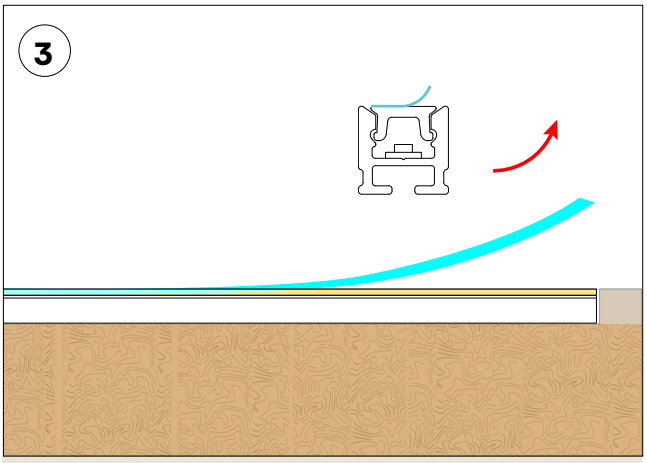


a. Use the #6 Flat head screws, mount screws into the magnet bracket through the drilled holes

b. Adjust the preinstalled magnet location by placing the rubber stoppers in the track. Move the magnet by pushing the rubber stoppers. Remove the rubber stoppers after use.

c. Place the assembled fixture onto the magnet mount bracket.

NOTE: *The magnet clips should be offset to the flat heads used to secure the bracket, to maximize magnetic connection.*



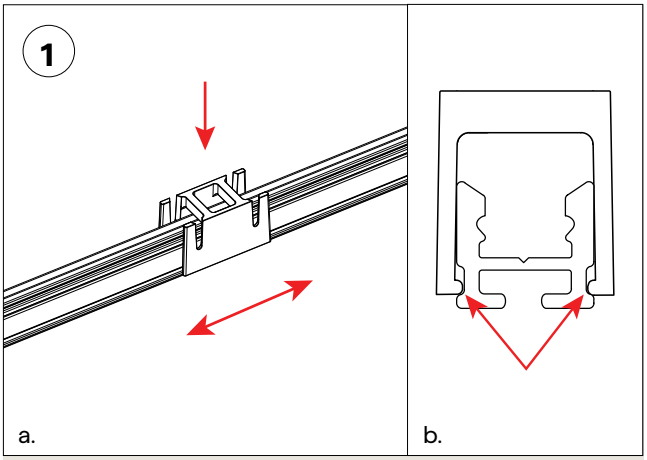
Remove protective film from the surface of the fixture's lens.

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LOUVER INSTALL METHOD: **CLIP-OVER LOUVER**

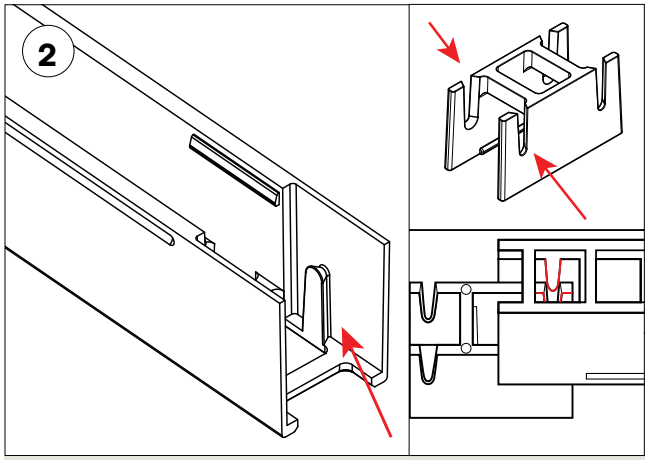
- Louvers can be snapped onto the fixture either before or after it is mounted to the surface using the provided mounting clip.

COMPATIBILITY	Louver Connector
ALTA-FLAT (01)	✓
ALTA-OPTICS (02)	✓
ALTA-ENCAPSULATED (03)	✓
ALTA-DROP (04)	
ALTA-LOUVER (05)	

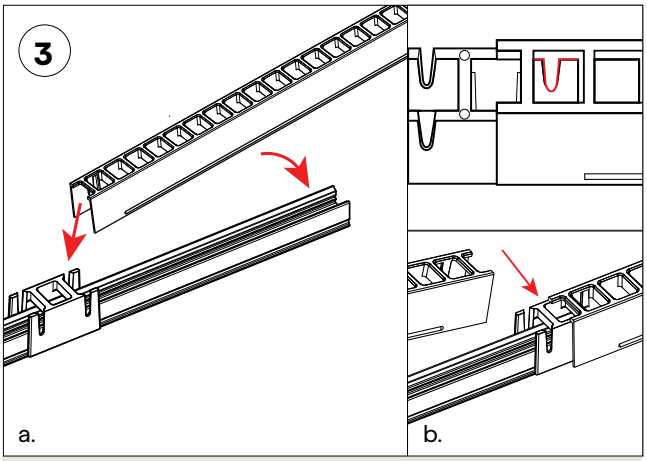


a. Place Clip-Over Louver connector onto the fixture housing in the approximate location. The connector can be moved into final position later.

b. Small runners should fit into extrusions side channels.



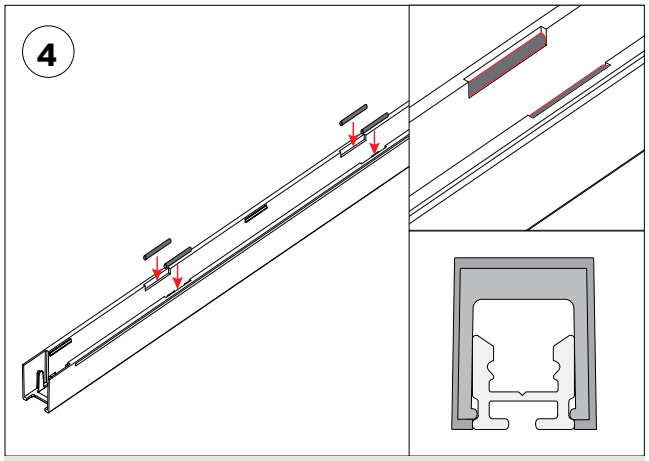
During install, align the dovetail on the Clip-Over Louver with the feature on the Clip-Over Louver Connector.



a. Place the louver's dovetail feature into the corresponding feature on the connector. Then clip the louver into place on the fixture at a slight angle

b. Snap the next louver onto the fixture and connector in the same process.

NOTE: *These plastic louvers are field-cuttable. Trimming the final segment as needed and positioning the cut end at the end of the fixture is recommended.*



Vertical Install

- If hanging the fixture vertically used the supplied gaskets and insert between extrusion and louver as shown above before inserting into mounting clips.

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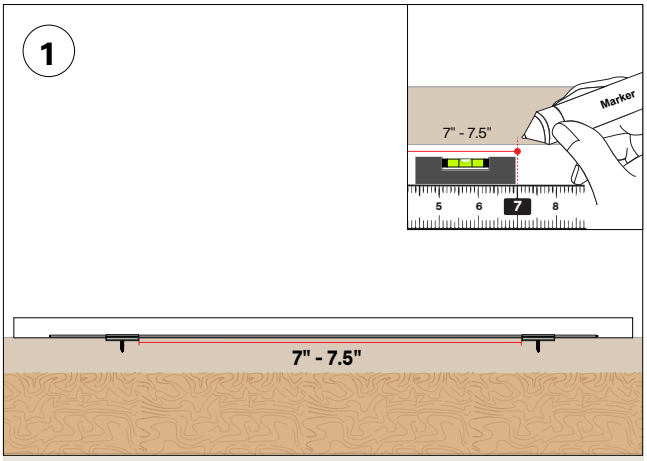
MICRO 5 ALTA

Factory and Field Assembled Installation Instructions

LOUVER INSTALL METHOD: **SCREW MOUNT**

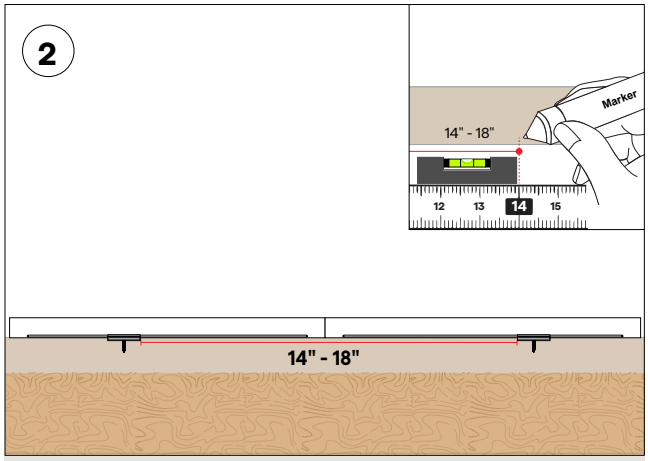
- Louvers can be snapped onto the fixture either before or after it is mounted to the surface using the provided mounting clip.

COMPATIBILITY	SST-01
ALTA-FLAT (01)	✓
ALTA-OPTICS (02)	✓
ALTA-ENCAPSULATED (03)	✓
ALTA-DROP (04)	
ALTA-LOUVER (05)	



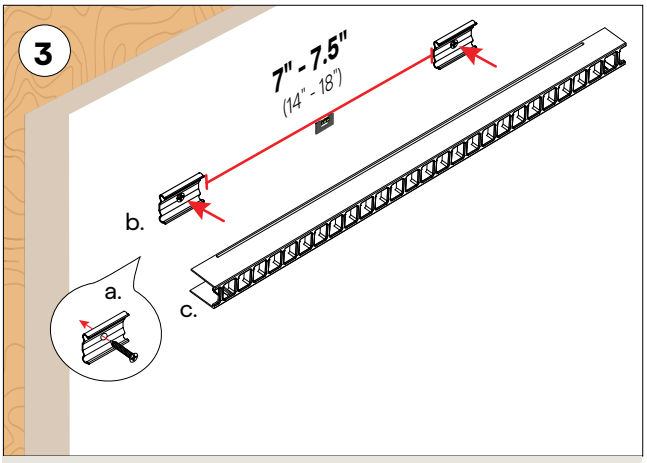
Single Louver Clip

- Determine the MICRO 5 fixture(s) location and positioning on desired surface, evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place.
- Recommended every 7” to 7.5” on single louver.

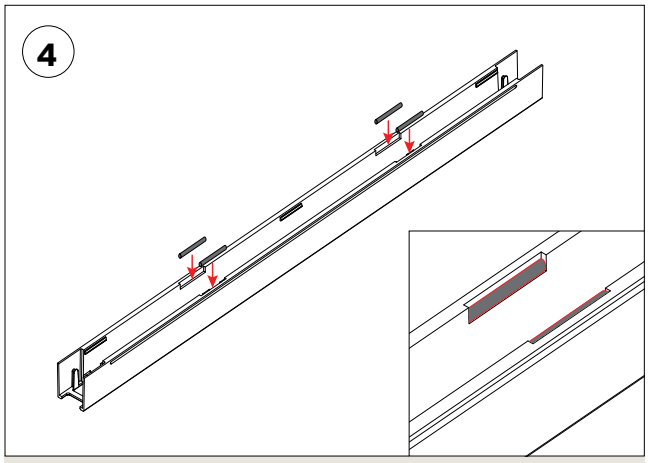


Multiple Louver Clip

- If installing multiple louvers recommended spacing is between 14” and 18”.



a. Secure clips using #4 flat head screw provided.
b. Ensure the Screw head is flush with the clips base.
c. Snap fixture onto clips.



Vertical Install

- If hanging the fixture vertically used the supplied gaskets and insert between extrusion and louver as shown above before inserting into mounting clips.

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MICRO 5 ALTA-DROP-DW(04)

Linear Fixtures Color Data

ALTA-04-DW-2.0-20-DRY-FR

2039 K

CRI: 93.6

CRI R9: 63.7

TM30 Rf: 88.7

TM30 Rg: 104.6

CQS: 79.4

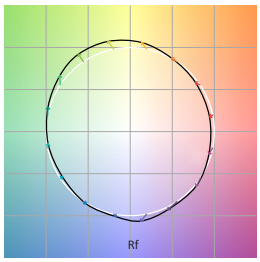
X: 0.519

Y: 0.409

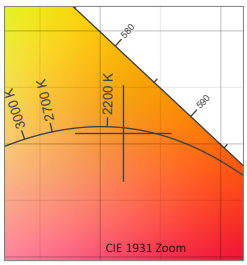
U: 0.302

V: 0.357

Δuv: -0.0015







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.8	97.4	96.7	94.5	94.5	97.7	90.9	82.0	63.7	92.0	96.2	92.2	95.9	96.3	89.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
75.0	84.5	81.2	82.6	81.7	76.0	72.4	76.4	85.8	83.1	82.6	81.7	81.5	80.2	78.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
90.5	88.1	86.1	87.5	88.9	86.6	84.0	87.4	90.8	94.3	91.8	89.4	89.6	74.5	86.1	88.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	90	-4%	-1%
2	88	-3%	5%
3	86	0%	8%
4	87	6%	7%
5	89	10%	5%
6	87	11%	0%
7	84	6%	-9%
8	87	1%	-9%
9	91	-1%	-5%
10	94	-3%	0%
11	92	0%	4%
12	89	2%	3%
13	90	7%	-8%
14	75	2%	-14%
15	86	1%	-10%
16	88	-3%	-8%

ALTA-04-DW-2.0-20-DRY-DF

2039 K

CRI: 93.9

CRI R9: 64.8

TM30 Rf: 89.6

TM30 Rg: 104.1

CQS: 80.1

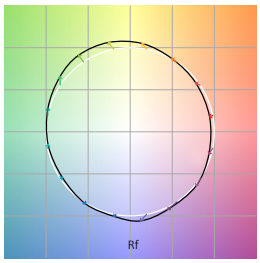
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Y: 0.410

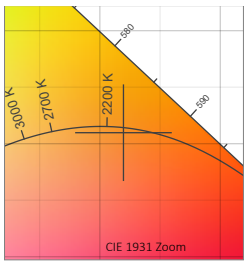
U: 0.302

V: 0.357

Δuv: -0.0014







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.2	97.7	97.0	95.0	95.0	97.8	91.1	82.5	64.8	92.7	96.6	93.0	96.3	96.5	90.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
76.0	84.5	81.8	83.1	82.5	77.2	73.9	77.4	86.0	83.6	83.1	82.3	82.1	80.5	78.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.0	88.9	87.3	88.8	89.9	87.6	85.6	88.7	91.9	94.9	92.5	90.3	89.8	75.1	86.8	88.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	89	-3%	5%
3	87	0%	7%
4	89	6%	6%
5	90	9%	5%
6	88	10%	0%
7	86	6%	-8%
8	89	1%	-8%
9	92	-1%	-4%
10	95	-3%	0%
11	93	1%	4%
12	90	2%	2%
13	90	6%	-9%
14	75	2%	-14%
15	87	1%	-10%
16	89	-3%	-8%

ALTA-04-DW-2.0-27-DRY-FR

2773 K

CRI: 97.9

CRI R9: 95.7

TM30 Rf: 94.9

TM30 Rg: 100.6

CQS: 95.6

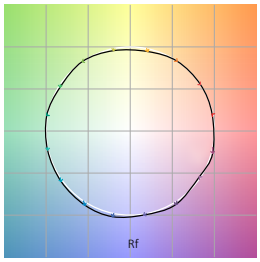
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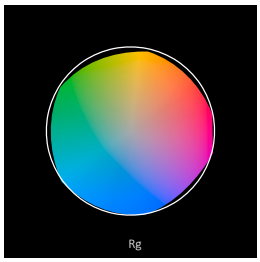
Y: 0.408

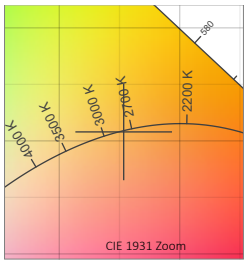
U: 0.260

V: 0.350

Δuv: -0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	99.1	97.1	97.7	98.1	96.8	98.4	98.2	95.7	99.9	95.0	87.2	97.8	97.2	98.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.2	96.0	93.6	94.3	96.3	97.5	95.7	97.2	97.1	97.5	97.4	96.7	97.1	95.8	95.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.5	97.9	96.8	94.4	95.9	97.2	93.7	97.5	95.0	93.4	92.9	92.9	94.7	93.5	94.2	91.1

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

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-03-11-24

MICRO 5 ALTA-DROP-DW(04)

Linear Fixtures Color Data

ALTA-04-DW-2.0-27-DRY-DF

2760 K

CRI: 98.0

CRI R9: 95.8

TM30 Rf: 94.9

TM30 Rg: 100.5

CQS: 95.5

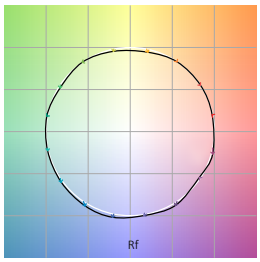
X: 0.455

Y: 0.409

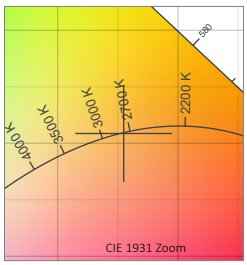
U: 0.260

V: 0.351

Δuv: -0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	99.2	96.7	97.7	98.2	97.1	98.5	98.3	95.8	99.6	95.2	87.1	97.9	97.0	98.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.1	95.9	93.5	94.2	96.2	97.5	95.8	97.3	96.9	97.4	97.4	96.6	96.8	95.9	95.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.4	97.9	96.8	94.3	95.8	97.2	93.7	97.5	94.9	93.2	92.8	92.9	94.8	93.5	94.1	91.0

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

ALTA-04-DW-2.0-30-DRY-FR

3128 K

CRI: 98.1

CRI R9: 97.8

TM30 Rf: 94.2

TM30 Rg: 101.2

CQS: 95.2

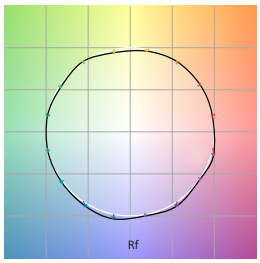
X: 0.426

Y: 0.396

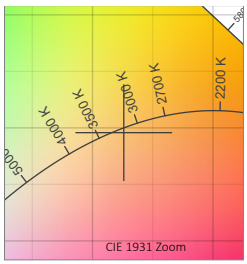
U: 0.247

V: 0.344

Δuv: -0.0018







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	99.0	96.8	98.8	98.3	96.8	98.5	98.7	97.8	99.2	96.5	82.7	97.9	97.2	97.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.0	97.2	91.3	91.8	95.2	98.2	95.0	96.8	97.2	96.9	97.3	98.2	98.4	96.2	95.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.2	97.7	96.6	95.2	93.5	97.1	93.2	98.2	93.9	90.6	90.6	92.1	95.5	93.1	92.5	90.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	98	0%	0%
3	97	0%	1%
4	95	-2%	-1%
5	94	-4%	1%
6	97	1%	1%
7	93	-2%	3%
8	98	0%	1%
9	94	0%	4%
10	91	1%	6%
11	91	3%	6%
12	92	5%	0%
13	95	2%	-3%
14	93	4%	-3%
15	93	0%	-2%
16	90	3%	-8%

ALTA-04-DW-2.0-30-DRY-DF

3120 K

CRI: 98.1

CRI R9: 98.5

TM30 Rf: 94.3

TM30 Rg: 101.0

CQS: 95.3

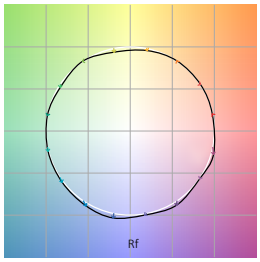
X: 0.427

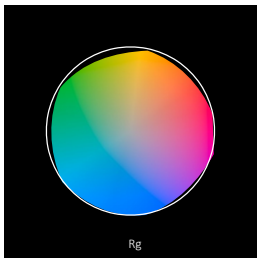
Y: 0.397

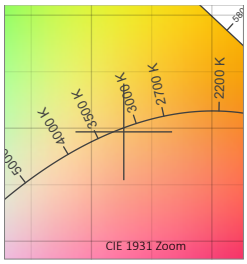
U: 0.247

V: 0.345

Δuv: -0.0015







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.7	99.0	96.9	98.6	98.2	96.9	98.6	98.8	98.5	99.5	96.3	82.9	97.8	97.2	97.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.7	97.1	91.7	92.2	95.2	98.4	95.4	97.1	97.2	97.2	97.7	98.5	98.5	96.3	95.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.1	97.7	96.7	95.0	93.6	97.2	93.2	98.0	93.7	90.6	90.8	92.2	95.6	93.3	92.5	90.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	98	0%	0%
3	97	0%	0%
4	95	-2%	-1%
5	94	-4%	0%
6	97	0%	1%
7	93	-2%	3%
8	98	0%	1%
9	94	0%	4%
10	91	1%	6%
11	91	3%	6%
12	92	5%	0%
13	96	1%	-3%
14	93	4%	-3%
15	93	0%	-1%
16	90	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-03-11-24

MICRO 5 ALTA-DROP-DW(04)

Linear Fixtures Color Data

ALTA-04-DW-2.0-40-DRY-FR

4074 K

CRI: 97.2

CRI R9: 97.7

TM30 Rf: 92.2

TM30 Rg: 99.8

CQS: 94.5

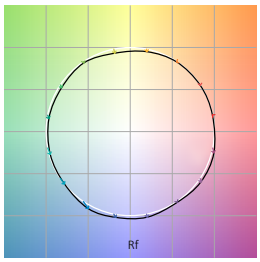
X: 0.378

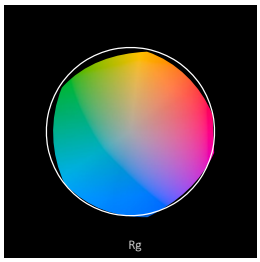
Y: 0.376

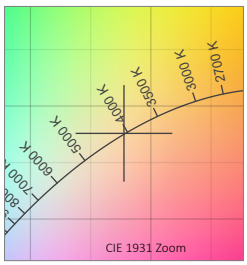
U: 0.224

V: 0.334

Δuv: 0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.7	98.4	94.7	97.9	96.6	94.7	98.9	97.9	97.7	94.0	97.1	71.2	98.9	96.5	96.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.8	99.2	88.6	87.8	92.2	95.1	96.6	98.4	97.2	97.3	97.5	99.0	99.4	99.1	97.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.0	97.2	95.9	92.8	91.4	96.1	94.1	93.0	89.4	86.9	85.5	92.4	94.9	94.7	90.2	90.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	0%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-1%
5	91	-5%	0%
6	96	-1%	1%
7	94	-3%	2%
8	93	-2%	4%
9	89	-2%	8%
10	87	0%	8%
11	86	4%	9%
12	92	3%	3%
13	95	4%	0%
14	95	1%	0%
15	90	3%	-3%
16	90	2%	-5%

ALTA-04-DW-2.0-40-DRY-DF

4065 K

CRI: 97.3

CRI R9: 97.0

TM30 Rf: 92.4

TM30 Rg: 99.7

CQS: 94.7

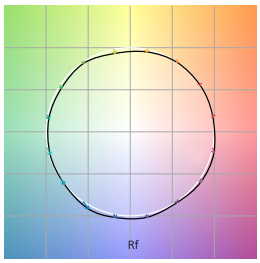
X: 0.378

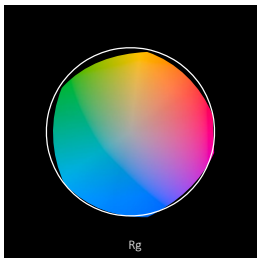
Y: 0.376

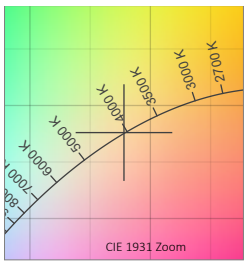
U: 0.224

V: 0.334

Δuv: 0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.8	98.6	95.0	98.0	96.7	95.0	98.8	97.7	97.0	94.5	97.4	71.8	99.1	96.7	96.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.7	99.2	89.0	88.2	92.5	95.3	96.9	98.5	97.4	97.6	97.8	99.1	99.4	99.1	96.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.0	97.2	96.0	92.9	91.5	96.2	94.1	93.1	89.6	87.3	86.0	91.9	94.9	94.8	90.4	90.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	0%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-1%
5	92	-5%	0%
6	96	-2%	1%
7	94	-3%	2%
8	93	-2%	4%
9	90	-1%	8%
10	87	0%	8%
11	86	4%	9%
12	92	3%	3%
13	95	4%	0%
14	95	1%	0%
15	90	3%	-3%
16	90	2%	-5%

ALTA-04-DW-2.0-55-DRY-FR

5713 K

CRI: 96.6

CRI R9: 98.2

TM30 Rf: 91.1

TM30 Rg: 98.2

CQS: 93.7

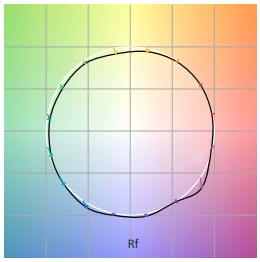
X: 0.328

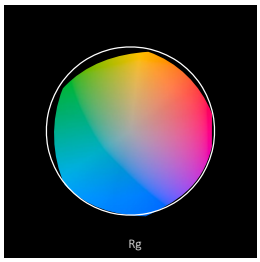
Y: 0.342

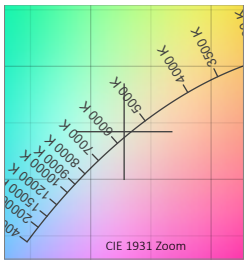
U: 0.203

V: 0.318

Δuv: 0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	99.8	97.7	94.8	95.1	94.9	96.3	96.2	98.2	97.8	96.4	70.2	99.2	98.7	94.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.5	98.0	89.4	86.2	89.7	92.2	97.2	97.9	98.7	98.5	97.3	98.0	98.7	98.5	96.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.0	96.9	95.1	91.8	88.8	95.1	91.5	88.3	87.2	84.7	85.7	96.7	93.4	94.1	84.5	95.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	93	-1%	1%
2	97	0%	0%
3	95	-1%	-1%
4	92	-3%	-2%
5	89	-7%	-2%
6	95	-4%	0%
7	92	-5%	3%
8	88	-4%	6%
9	87	-2%	12%
10	85	1%	10%
11	86	4%	8%
12	97	2%	0%
13	93	3%	-2%
14	94	0%	-2%
15	85	8%	-9%
16	96	-1%	1%

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-03-11-24

MICRO 5 ALTA-DROP-DW(04)

Linear Fixtures Color Data

ALTA-04-DW-2.0-55-DRY-DF

5661 K

CRI: 96.7

CRI R9: 97.2

TM30 Rf: 91.2

TM30 Rg: 98.4

CQS: 93.8

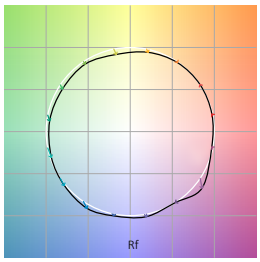
X: 0.329

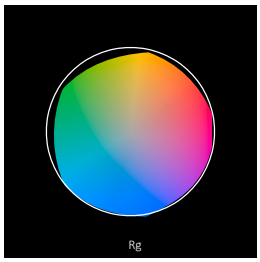
Y: 0.343

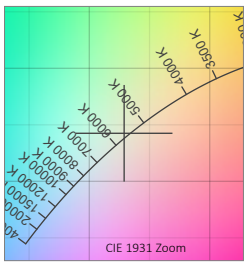
U: 0.204

V: 0.319

Δuv: 0.0009







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	99.6	97.8	95.0	95.3	95.0	96.3	96.3	97.2	98.4	96.7	70.7	99.2	98.7	94.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.7	98.1	89.5	86.4	89.9	92.4	97.5	98.0	98.7	98.6	97.3	98.0	98.7	98.4	96.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.0	96.9	95.1	91.9	88.9	95.2	91.6	88.3	87.3	84.9	85.9	96.8	93.5	94.3	84.7	95.7

TM30			
Hue Bin	R_f	Chroma	Hue
1	93	-1%	1%
2	97	0%	0%
3	95	-1%	-1%
4	92	-3%	-2%
5	89	-7%	-2%
6	95	-4%	0%
7	92	-5%	3%
8	88	-4%	6%
9	87	-2%	12%
10	85	1%	10%
11	86	4%	8%
12	97	2%	0%
13	94	3%	-2%
14	94	0%	-2%
15	85	8%	-8%
16	96	-1%	1%

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-03-11-24