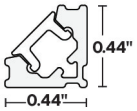
MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface





- MICRO 5 Series linear LED fixture engineered for exceptional light quality and even distribution, seamlessly blending with millwork details
- Corner and surface mount fixture with flat lens
- 60% smaller than ESSENTIALS-VEVE
- Delivers equivalent efficacy as standard size fixtures
- Choose from diffused or frosted lens options for varying diode visibility and beam angles
- Features a stainless steel mounting clip, making installation and repositioning effortless
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled
- Consult factory for field assembly options

Specify either factory assembled fixtures or field assembled extrusions and LEDs.

A LEDs will be installed into a complete fixture. Ideal for single fixtures. Avoids installers needing to handle the delicate 5mm LED.

OR

B Extrusions and LEDs will be shipped not installed. Ideal for long runs or light with no interruptions in LED up to Class 2 limitations. Due to the delicate nature of the 5mm LED, care must be taken in the installation process

A. Factory Assembled Option

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

A1	A2	A3	A4	A5
PRODUCT	WATTS/ FT	CCT	RATED	LENS
	2.0			

ADDITIONAL INFORMATION REQUIRED TO ORDER

A6	A7	A8	A9	A10	A11	A12	A13	A14
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
					SST			

Sample Part Number: **TILT-01-DW-2.0-20/27-DRY-FR-S1-BW-CLS-WH-CL2-SST-ST-48"-E**

A1 PRODUCT

TILT-01-DW
TILT-01-DW-USA

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

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.

A2 WATTS/FT

2.0	2.0W/ft

A3 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

A4 RATED

DRY	IP20
DMP	IP54

A5 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

A6 WIRE INPUT/ OUTPUT

SINGLE (Input only)
S1 End Feed

PASS THROUGH (Input/output)
P1 End Feed

A7 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)

A8 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)

A9 WIRE COLOR

WH	White
BK	Black

A10 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated

CL2P only available with bare wire leads (BW)

A11 MOUNTING

SST	Stainless Steel

A12 FINISH

ST	Satin
BK	Black
CU	Custom

Custom finishes require a longer lead time, consult factory

A13 LENGTH (IN)

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

A14 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 must comply with QTL's installation methods otherwise warranty is null & void | Data subject to change, all data has +/- 5% tolerance

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

MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

B. Field Assembled Option

EXTRUSION ORDERING

B1 PRODUCT	B2 FINISH	B3 MOUNTING	B4 LENS	B5 WIRE INPUT/ OUTPUT	B6 EXTRUSION LENGTH (IN)
TILT-01		SST		NI	

LED STRIP ORDERING

B7 V/ WATTS	B8 RATED	B9 CCT - LUMENS/ CRI	B10 CONNECTOR/ WIRE IN	B11 CONNECTOR/ WIRE OUT	B12 WIRE COLOR	B13 WIRE TYPE	B14 ILLUMINATED LENGTH
DW24-5MM/2.0			BW	CLS		CL2	

EXTRUSION ORDERING

Sample Part Number: **TILT-01-ST-SST-DF-NI-98.43"**

B1 PRODUCT

TILT-01

B2 FINISH

ST Satin
BK Black
CU Custom

Custom finishes require a longer lead time, consult factory

B3 MOUNTING

SST Stainless Steel

B4 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

B5 WIRE INPUT/OUTPUT

NI Not Installed

B6 EXTRUSION LENGTH (IN)

1" increments from 1" - 98.43"
Extrusion Tolerance +0 -1/8".

LED STRIP ORDERING

Sample Part Number: **DW24-5MM/2.0-DRY-20/27-BW-CLS-WH-CL2-100"**

B7 V/WATTS

DW24-5MM/2.0

Wattage: 2.0W/ft
Voltage: 24VDC
See following pages for compatible power supplies.

B8 RATED

DRY IP20
DMP IP54

B9 CCT - LUMENS/CRI

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

B10 CONNECTOR/WIRE IN

BW Bare Wire (Standard 24")

B11 CONNECTOR/WIRE OUT

CLS Closed End (No feed)

B12 WIRE COLOR

WH White
BK Black

B13 WIRE TYPE

CL2 Class 2

B14 ILLUMINATED LENGTH

2"-576" in 2" increments

Order LED length needed for each run. Lengths cannot exceed 48' (Class 2). All lengths will have a 2' soldered lead wire attached. This product is not to be field-soldered.

REQUIRED ACCESSORY

UNIV-ROLLER



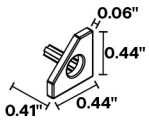
Roller tool used to lay MICRO 5 LED strips into extrusion housing

Included and required for all MICRO 5 field assembled options

To order additional, use UNIV-ROLLER

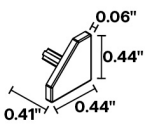
END CAPS

One pair of end caps is provided with each length of extrusion ordered.



Feed

To order separately, use TILT-EC



No Feed

To order separately, use TILT-EC

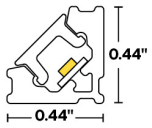
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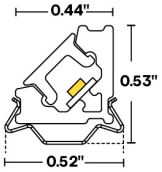
MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

A1 / B1 PRODUCT - DIMENSIONS



Profile with flat lens



Profile with flat lens and stainless steel mounting clip

A2 / B9 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TILT-01-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	134	93	146	97	151	98	156	97	165	96
DF	89	94	96	98	100	98	103	97	110	97

A5 / B4 DIODE VISIBILITY

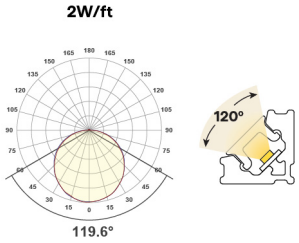


DF - Diffused lens

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

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 - Surface	-4°F	140°F	-4°F	120°F
DMP	Ambient Operating Temp - Surface	-4°F	140°F	-4°F	120°F

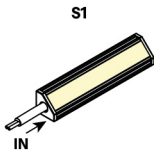
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MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

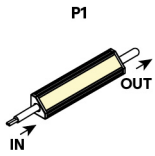
A6 WIRE INPUT/OUTPUT

SINGLE (Input only)



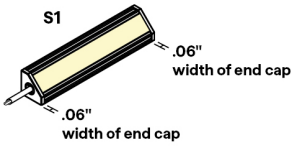
End Feed

PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP

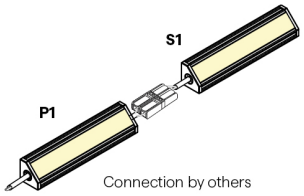


End Feed

CONFIGURATION OPTIONS

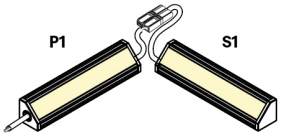


Single End Feed



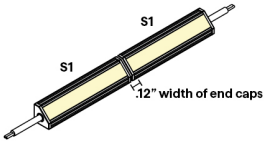
Connection by others

Non-Continuous End Feed



Connection by others

Non-Continuous Corner Feed

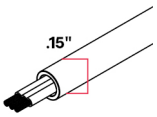


Continuous End to End Feed

A7 / A8 / B10 / B11 CONNECTOR/WIRE – IN/OUT

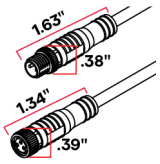
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out

BW



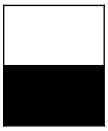
Bare Wire 24"
22 AWG

CON6/CON24



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

A9 / B12 WIRE COLOR

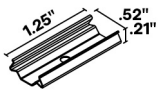


White

Black

A11 / B3 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

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MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

A12 / B2 FINISH

Satin

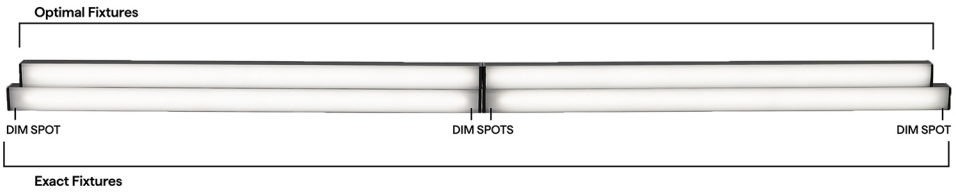
Black

Custom finishes require a longer lead time, consult factory

A14 EXACT/OPTIMAL FIXTURE LENGTH

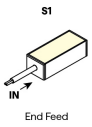
E/O Length Calculator → E/O Explained →

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.

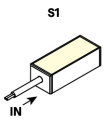
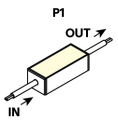


DW DRY DMP LENGTHS BY INCH

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 	P1 
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"

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MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

COMPATIBLE POWER SUPPLIES

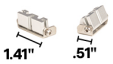
See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR
	MICRO 5-DW 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
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with WD App Dongle

DIMMING PROTOCOL	INDOOR
	MICRO 5-DW Warm Dim Applications
Phase	QZ-DW
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN 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
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 WD App Dongle

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-S



Adjustable mounting bracket - Small

QUOVA-MICRO



QUOVA Knife Edge

VHB



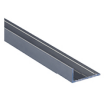
Double sided mounting tape

NJ-MICRO



J Mounting Bracket

BL-MICRO



Backwards L Mounting Bracket

NL-MICRO



L Mounting Bracket

SD-L-MICRO



L Mounting Bracket

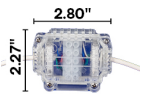
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MICRO 5 TILT-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

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

Q-NFC

Read and write DMX addresses and adjust voltage

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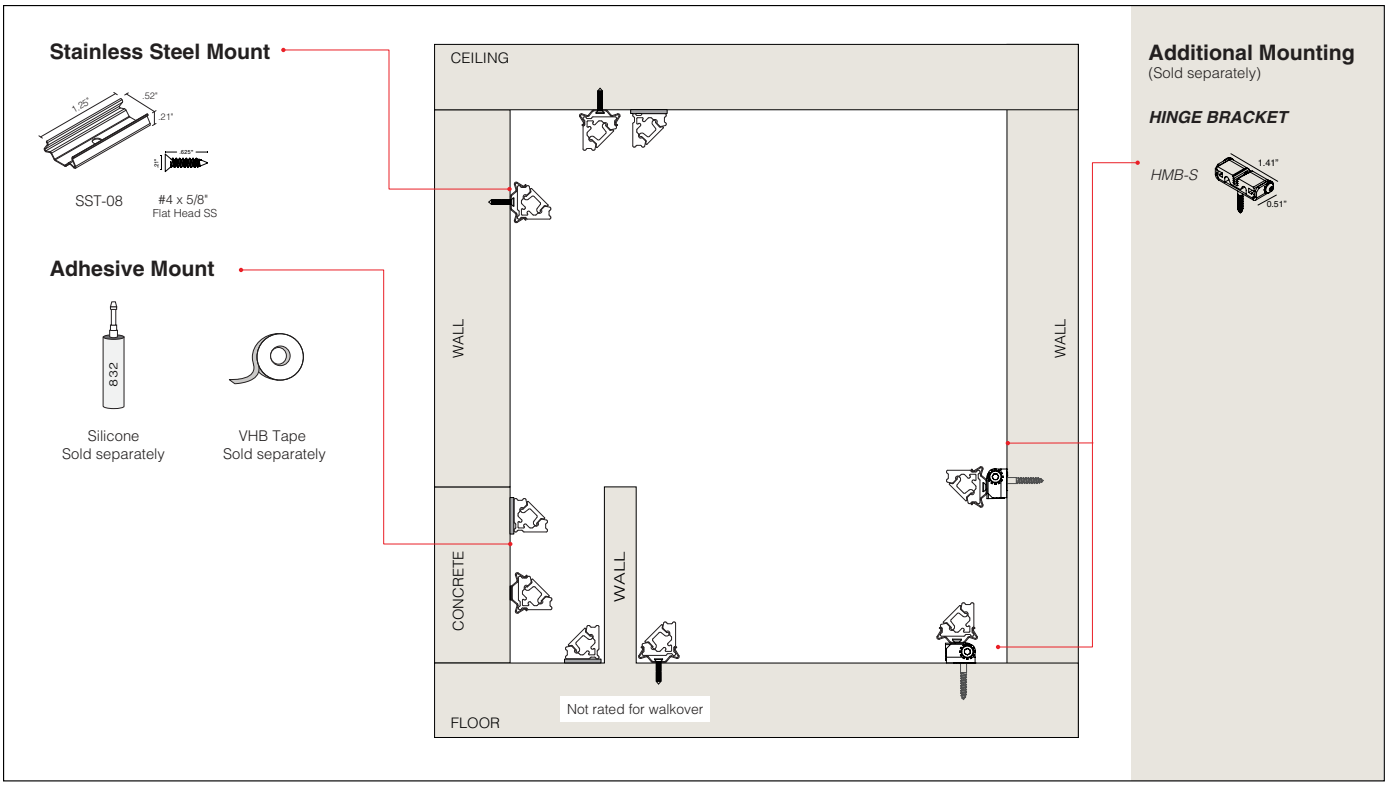
MICRO 5 TILT

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
- Surface mount
- 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)

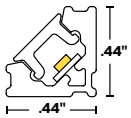
Surface Mounting Method

- VHB Mount (page 5)
- Silicone Mount (page 6)
- Screw Mount (page 7)

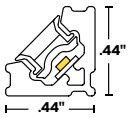
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MICRO 5 TILT

Linear Fixture Installation Instructions



TILT-FLAT (01)

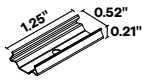


TILT-LOUVER (05)

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'

REQUIRED ACCESSORY



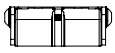
UNI-ROLLER

Included
Included and required for all MICRO 5 field assembled options

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

ACCESSORIES SOLD SEPARATELY

HINGE BRACKET; sold individually

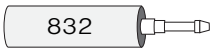


HMB-S

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

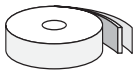
ADHESIVE SOLD SEPARATRLY

SILICONE



DOWSIL 832

VHB TAPE; sold in 15" increments



TAPE-VHB-IP20

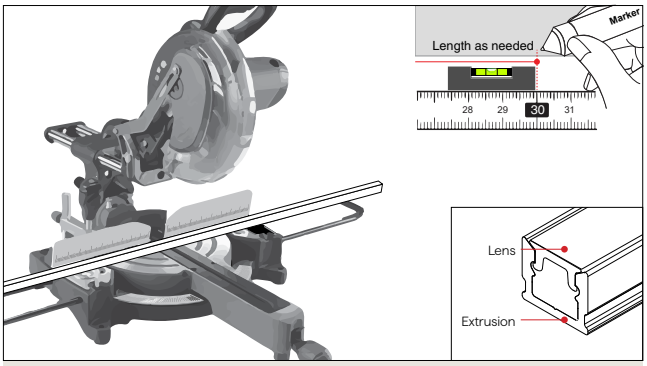
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MICRO 5 TILT

Linear Fixture Installation Instructions

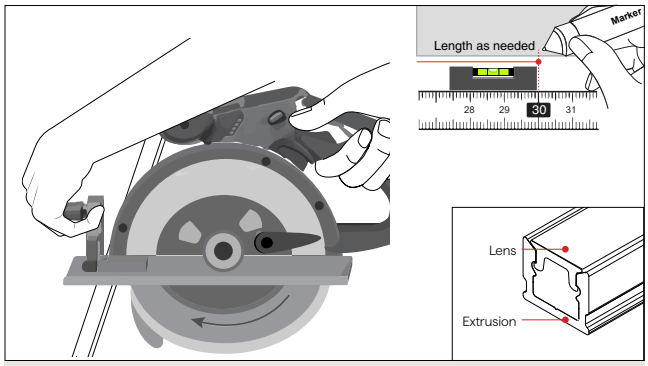
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

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.

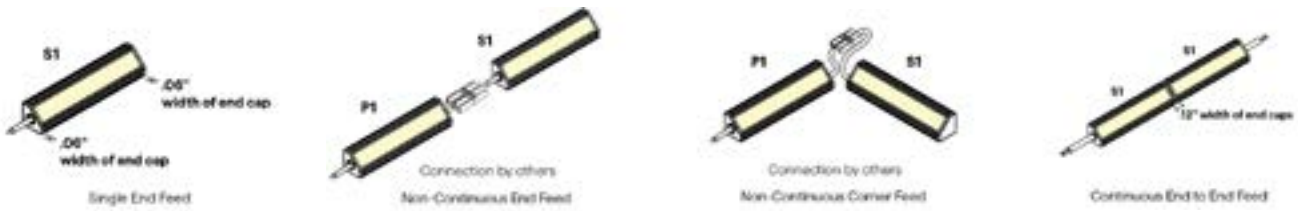
OR



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:
S1: Connector/Wire Input only
P1: Connector/Wire Input and Output

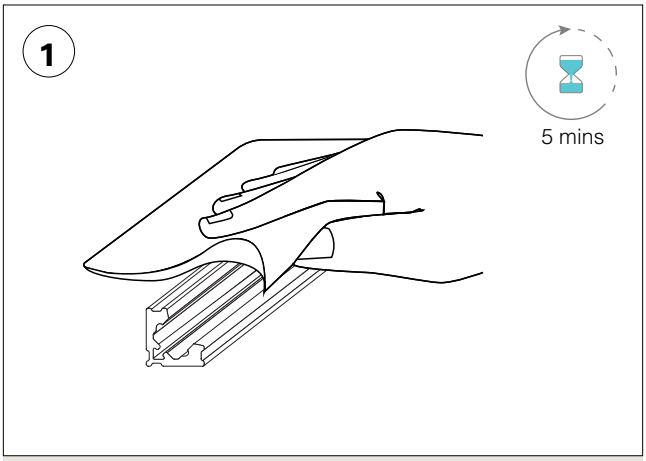
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MICRO 5 TILT

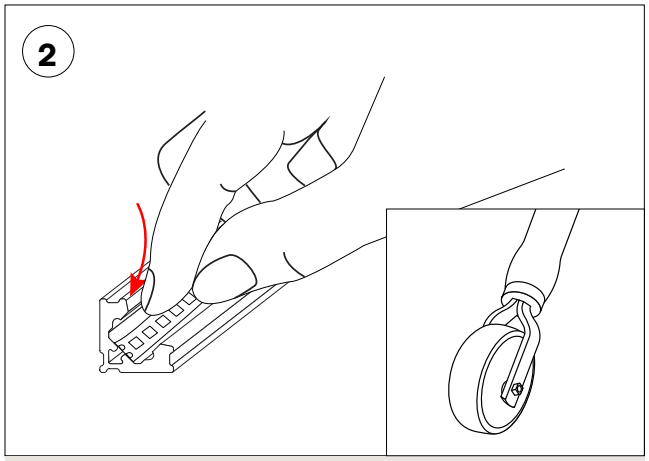
Linear Fixture Installation Instructions

LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

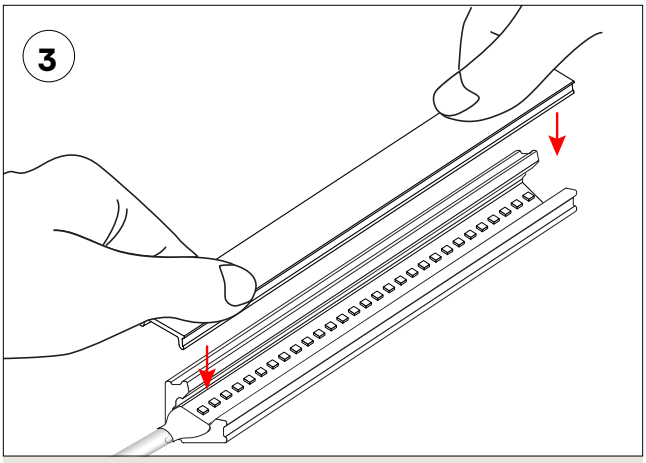
STRIP IN EXTRUSION



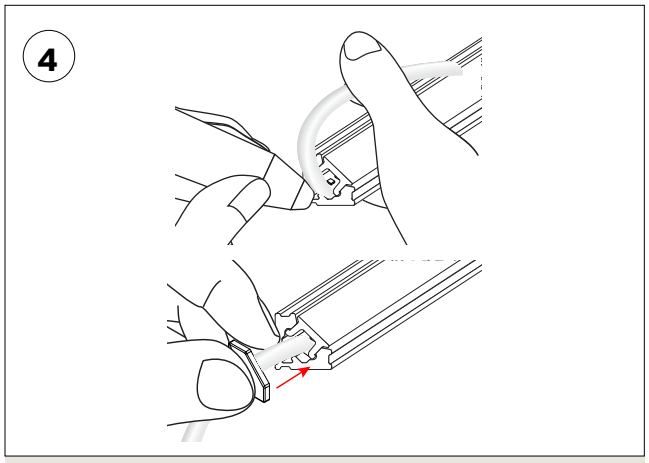
- Using a 50/50 alcohol mix throughly clean, the surface of the extrusion and the multi-tray surface. Allow time to dry (about 5 minutes).



- 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.



- Apply uniform pressure until the extrusion and lens snap securely together.



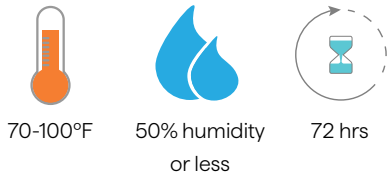
- Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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SURFACE MOUNTING METHOD

SURFACE PREPARATION

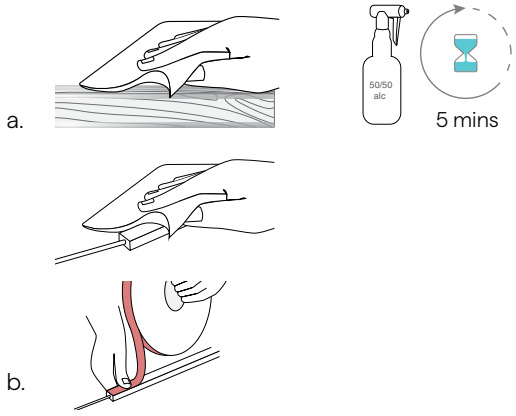
1



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.

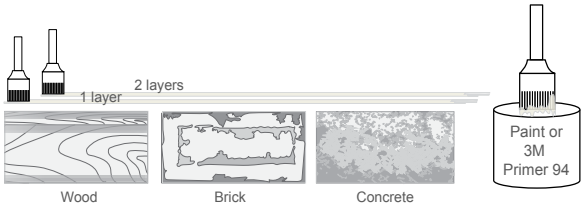
2



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.

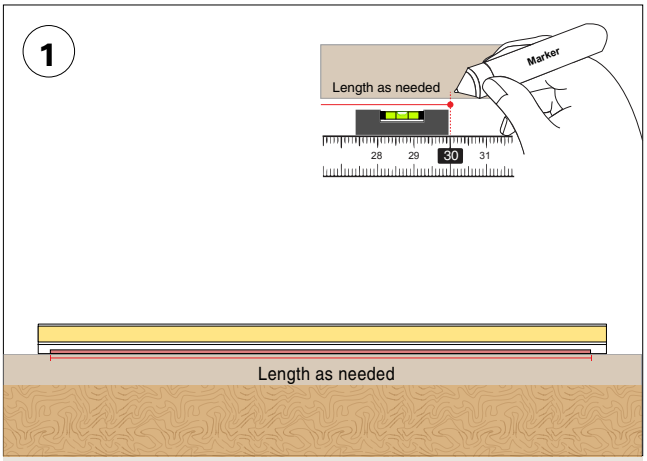
MATERIALS	SUGGESTED EPOXIES
Concrete, Stone, Cinderblock, Metal, and Brick	Loctite Metal and Concrete Two-Part Epoxy
ABS, Fiberglass, Plastic, and PVC	Loctite Plastic Two-Part Epoxy
Tile, Wood, Ceramic, Glass, or Metal	Loctite Clear Two-Part Epoxy
All Purpose	Strong Stik

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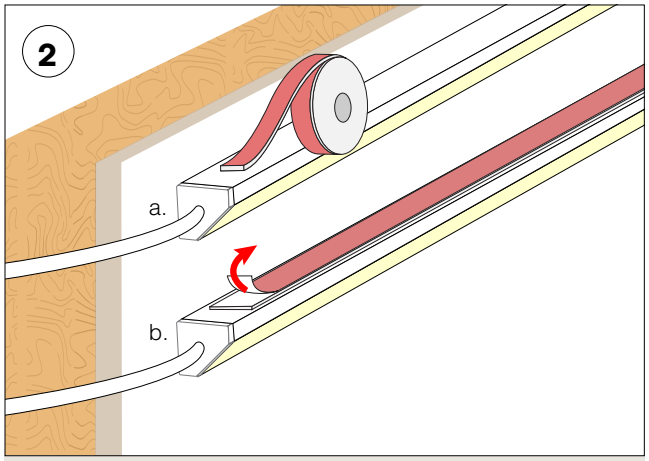
SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

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

- TILT can be installed with lens orientation facing up or down

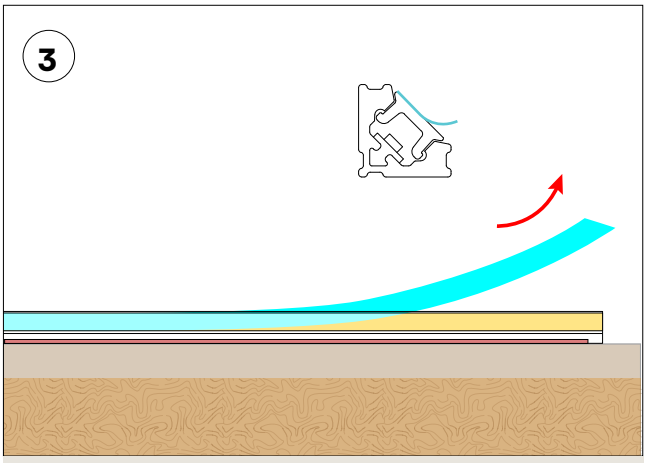


Determine the TILT fixture(s) location and positioning on desired surface before adhering Fixture to surface. Make any necessary reference markings to indicate fixture placement.



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 5 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*

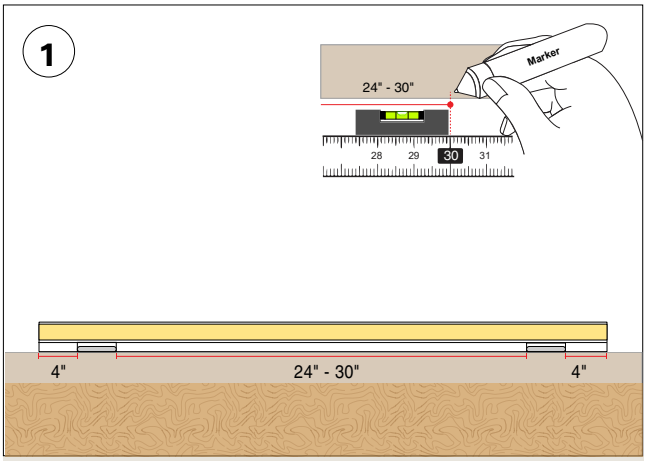
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MICRO 5 TILT

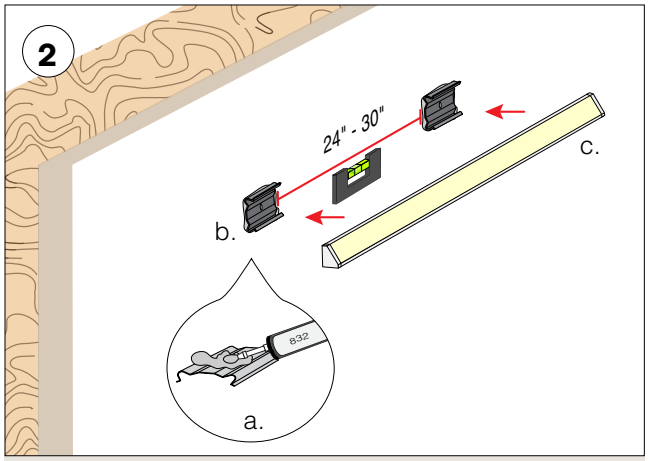
Linear Fixture Installation Instructions

SURFACE MOUNTING METHOD: **SILICONE**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'
- TILT can be installed with lens orientation facing up or down



Determine the TILT 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".

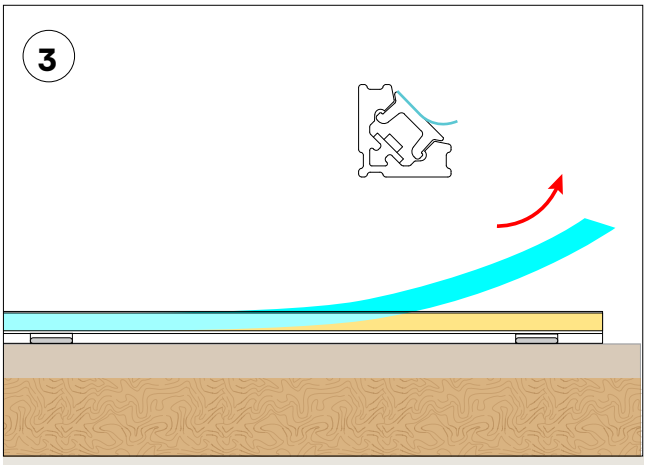


a. Firmly press the silicone-coated clips on the marked reference points.

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.

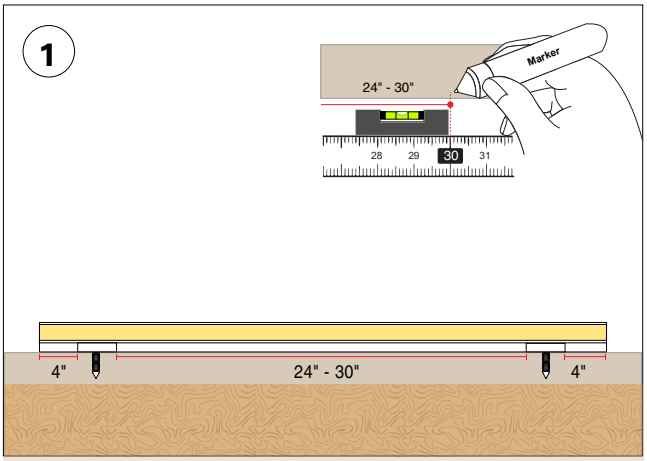
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MICRO 5 TILT

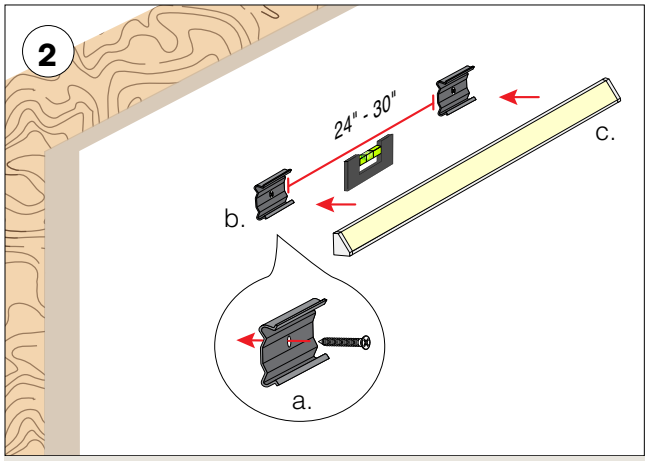
Linear Fixture Installation Instructions

SURFACE MOUNTING METHOD: **SCREW MOUNT**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'
- TILT can be installed with lens orientation facing up or down



Determine the TILT 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".

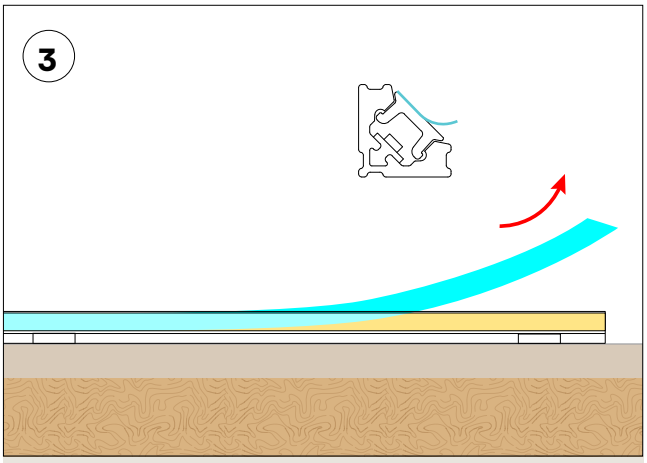


a. Secure clips using the #4 flat head hardware provided.

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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MICRO 5 TILT-FLAT-DW(01)

Linear Fixtures Color Data

TILT-01-DW-2.0-20-DRY-FR

2044 K

CRI: 93.4

CRI R9: 63.5

TM30 Rf: 88.0

TM30 Rg: 104.9

CQS: 79.0

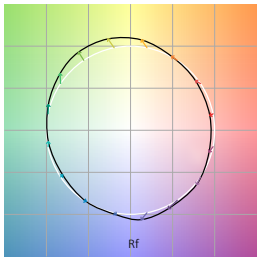
X: 0.518

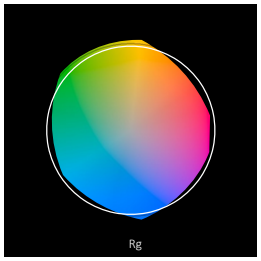
Y: 0.408

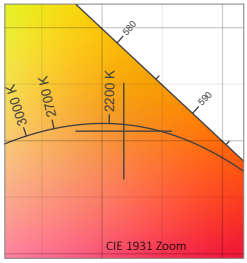
U: 0.302

V: 0.357

Δuv: -0.0018







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.7	97.4	96.7	94.2	94.4	97.7	90.6	81.8	63.5	91.9	96.0	93.3	95.8	96.4	89.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.0	84.6	81.3	82.8	81.3	75.3	71.6	75.8	85.7	82.9	82.2	81.1	81.0	80.3	77.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
90.2	87.4	85.1	85.4	87.5	85.5	82.8	85.5	89.3	93.7	92.1	89.8	89.5	74.1	86.3	88.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	90	-4%	-1%
2	87	-3%	6%
3	85	0%	8%
4	85	8%	8%
5	87	12%	5%
6	86	12%	0%
7	83	7%	-9%
8	86	2%	-11%
9	89	-2%	-6%
10	94	-3%	-1%
11	92	0%	3%
12	90	2%	3%
13	89	7%	-8%
14	74	2%	-14%
15	86	1%	-10%
16	89	-3%	-7%

TILT-01-DW-2.0-20-DRY-DF

2008 K

CRI: 93.6

CRI R9: 63.7

TM30 Rf: 87.9

TM30 Rg: 105.2

CQS: 78.0

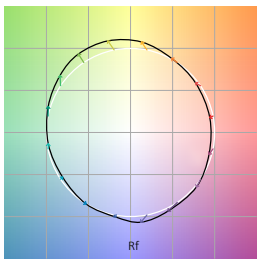
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Y: 0.408

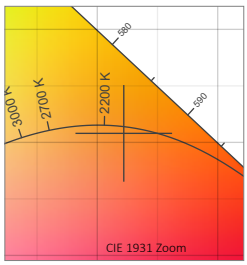
U: 0.305

V: 0.357

Δuv: -0.0018







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.8	97.5	96.9	94.5	94.6	97.7	90.6	81.9	63.7	92.4	96.2	93.2	96.0	96.4	89.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
73.4	83.4	80.4	82.0	80.6	74.3	70.3	74.5	84.4	82.1	81.3	80.2	79.9	79.3	77.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
90.2	87.1	84.9	85.4	87.3	85.2	82.2	85.2	89.3	93.9	92.1	89.6	89.1	73.6	86.0	88.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	90	-4%	-1%
2	87	-3%	6%
3	85	0%	8%
4	85	8%	8%
5	87	12%	5%
6	85	12%	0%
7	82	7%	-10%
8	85	2%	-11%
9	89	-1%	-6%
10	94	-3%	-1%
11	92	0%	3%
12	90	2%	2%
13	89	7%	-9%
14	74	2%	-15%
15	86	1%	-10%
16	89	-3%	-7%

TILT-01-DW-2.0-27-DRY-FR

2767 K

CRI: 97.4

CRI R9: 96.1

TM30 Rf: 95.0

TM30 Rg: 100.8

CQS: 95.6

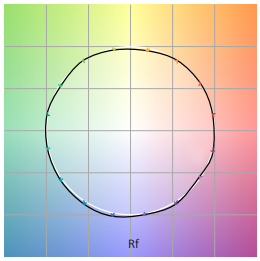
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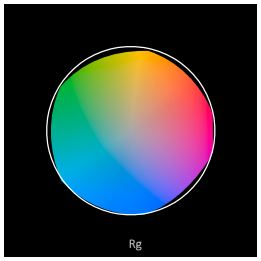
Y: 0.406

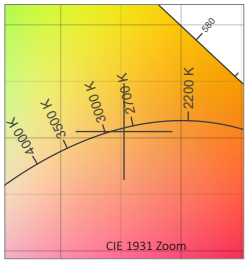
U: 0.260

V: 0.350

Δuv: -0.0012







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.0	98.2	97.7	97.2	97.2	95.6	97.9	98.2	96.1	98.3	94.2	87.7	96.9	97.4	98.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.3	95.8	93.9	94.7	96.4	97.3	95.3	96.8	97.3	97.4	97.5	97.0	97.4	95.1	94.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.4	97.7	96.6	94.6	96.1	97.0	93.7	97.5	95.0	93.8	93.4	92.9	94.2	93.6	94.3	91.7

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

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-03-10-24

MICRO 5 TILT-FLAT-DW(01)

Linear Fixtures Color Data

TILT-01-DW-2.0-27-DRY-DF

2712 K

CRI: 97.6

CRI R9: 97.6

TM30 Rf: 95.7

TM30 Rg: 101.7

CQS: 95.5

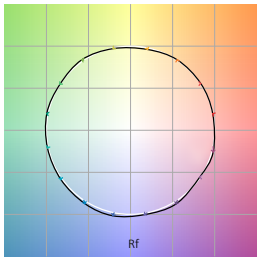
X: 0.457

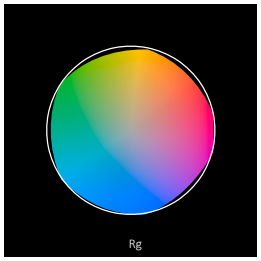
Y: 0.406

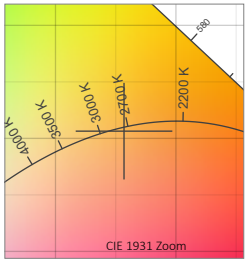
U: 0.262

V: 0.350

Δuv: -0.0013







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	98.7	96.9	96.8	97.4	96.3	98.7	99.2	97.6	99.0	93.6	89.3	97.2	97.0	98.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.7	95.9	93.4	94.9	97.4	95.3	93.9	96.2	97.0	96.7	97.5	97.1	97.3	95.3	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.3	98.1	96.9	96.2	96.2	96.0	95.9	97.4	96.9	95.4	94.2	93.1	94.8	93.9	95.3	92.0

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

TILT-01-DW-2.0-30-DRY-FR

3098 K

CRI: 98.2

CRI R9: 97.1

TM30 Rf: 94.4

TM30 Rg: 101.0

CQS: 95.5

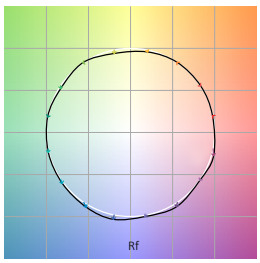
X: 0.429

Y: 0.398

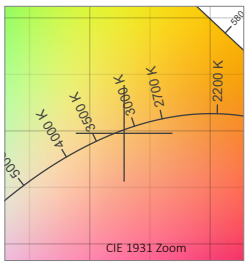
U: 0.248

V: 0.345

Δuv: -0.0013







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.0	99.2	97.0	98.7	98.4	97.0	98.5	98.5	97.1	99.3	96.3	83.7	98.1	97.3	98.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.9	97.0	91.9	92.5	95.5	98.3	95.4	97.0	97.3	97.2	97.7	98.4	98.5	96.3	95.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.2	97.8	96.8	95.3	93.8	97.2	93.5	98.0	94.1	91.2	91.2	92.2	95.3	93.1	92.6	90.4

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

TILT-01-DW-2.0-30-DRY-DF

3029 K

CRI: 98.0

CRI R9: 98.6

TM30 Rf: 95.3

TM30 Rg: 101.4

CQS: 95.7

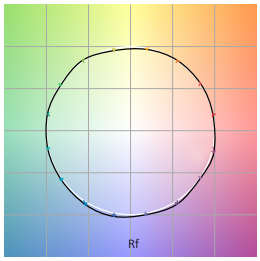
X: 0.433

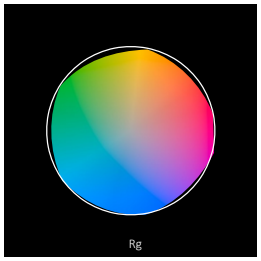
Y: 0.399

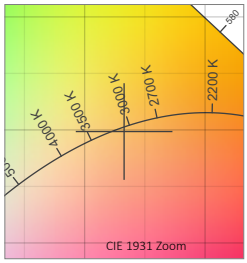
U: 0.250

V: 0.346

Δuv: -0.0016







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.4	98.9	96.5	97.7	98.0	97.0	99.0	99.2	98.6	99.4	95.4	86.1	97.5	96.9	97.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.9	97.1	92.4	93.5	96.5	97.2	94.8	97.0	97.1	96.9	97.7	98.2	98.1	96.1	96.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.0	98.1	97.0	96.4	94.5	96.9	94.2	98.3	95.7	93.1	92.4	93.3	95.8	94.1	93.8	91.7

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

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-03-10-24

MICRO 5 TILT-FLAT-DW(01)

Linear Fixtures Color Data

TILT-01-DW-2.0-40-DRY-FR

4098 K

CRI: 97.4

CRI R9: 96.9

TM30 Rf: 92.8

TM30 Rg: 100.0

CQS: 95.0

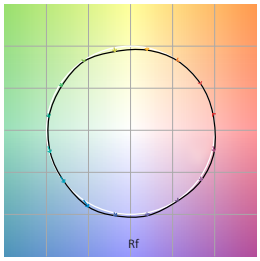
X: 0.377

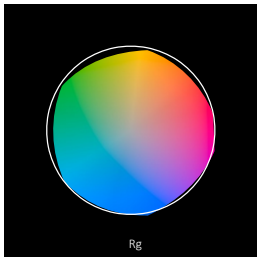
Y: 0.375

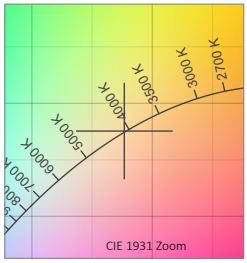
U: 0.223

V: 0.334

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	98.5	94.8	98.6	97.0	95.1	98.9	97.7	96.9	94.4	97.5	72.6	99.1	96.5	96.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.1	99.3	89.3	88.8	93.1	95.8	96.9	98.7	97.3	97.6	98.0	99.3	99.1	99.1	97.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.4	97.5	96.2	93.3	92.0	96.3	94.8	93.8	90.4	88.0	86.5	92.8	95.3	95.0	90.8	90.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	0%
2	98	0%	0%
3	96	0%	0%
4	93	-3%	-1%
5	92	-5%	0%
6	96	-1%	1%
7	95	-3%	2%
8	94	-2%	3%
9	90	-1%	7%
10	88	0%	8%
11	86	4%	9%
12	93	3%	3%
13	95	3%	0%
14	95	1%	0%
15	91	3%	-3%
16	91	2%	-5%

TILT-01-DW-2.0-40-DRY-DF

3991 K

CRI: 97.4

CRI R9: 94.3

TM30 Rf: 92.7

TM30 Rg: 100.1

CQS: 95.0

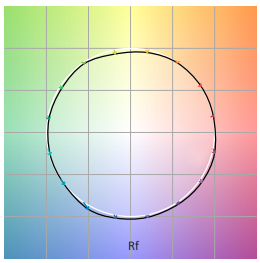
X: 0.381

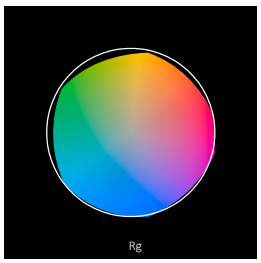
Y: 0.378

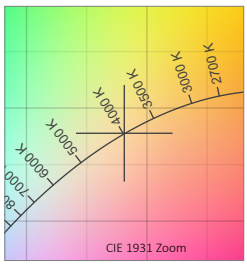
U: 0.225

V: 0.335

Δuv: 0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.0	98.7	94.7	98.9	97.3	95.3	98.7	96.9	94.3	94.9	97.7	73.1	99.3	96.5	96.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.0	99.4	89.4	89.0	93.3	96.2	96.9	98.8	97.3	97.7	98.1	99.4	99.0	99.1	96.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.1	97.5	96.2	93.2	91.7	96.2	94.5	93.5	90.1	88.0	86.5	92.2	95.3	94.5	90.7	90.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	0%
2	97	0%	-1%
3	96	0%	0%
4	93	-3%	-1%
5	92	-5%	0%
6	96	-1%	1%
7	95	-3%	2%
8	94	-2%	4%
9	90	-1%	7%
10	88	0%	8%
11	86	4%	9%
12	92	3%	3%
13	95	3%	0%
14	95	2%	0%
15	91	3%	-3%
16	91	3%	-5%

TILT-01-DW-2.0-55-DRY-FR

5677 K

CRI: 96.3

CRI R9: 91.9

TM30 Rf: 91.1

TM30 Rg: 98.3

CQS: 94.2

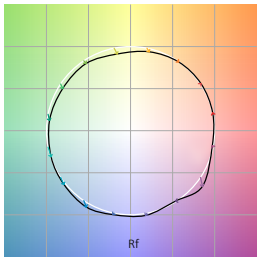
X: 0.329

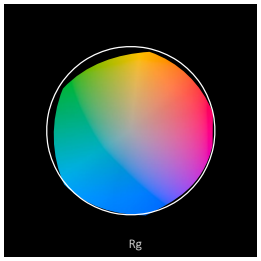
Y: 0.341

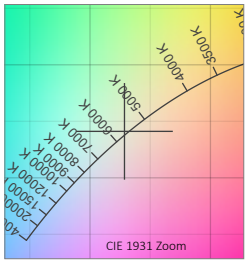
U: 0.204

V: 0.318

Δuv: 0.0015







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	98.1	98.8	95.0	95.5	95.5	95.3	95.3	91.9	97.9	97.9	72.2	97.7	99.2	93.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.9	97.0	91.2	87.8	90.4	92.6	98.4	98.7	99.1	99.5	98.7	99.2	99.4	97.9	95.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
92.5	96.7	95.0	91.4	88.1	94.4	91.0	87.6	87.2	85.6	87.2	96.5	93.2	94.5	85.4	95.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	0%	2%
2	97	1%	0%
3	95	0%	-2%
4	91	-4%	-3%
5	88	-8%	-2%
6	94	-4%	0%
7	91	-5%	3%
8	88	-3%	7%
9	87	-1%	12%
10	86	1%	9%
11	87	5%	7%
12	97	2%	-1%
13	93	2%	-2%
14	95	-1%	-2%
15	85	8%	-7%
16	95	-1%	2%

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-03-10-24

MICRO 5 TILT-FLAT-DW(01)

Linear Fixtures Color Data

TILT-01-DW-2.0-55-DRY-DF

5424 K

CRI: 96.7

CRI R9: 93.1

TM30 Rf: 91.4

TM30 Rg: 98.6

CQS: 94.3

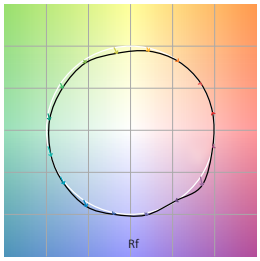
X: 0.334

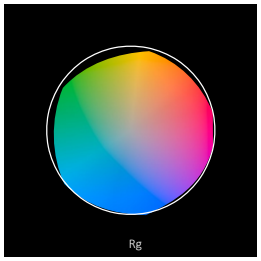
Y: 0.346

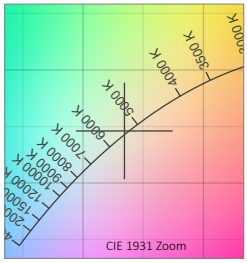
U: 0.206

V: 0.320

Δuv: 0.0016







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.7	98.6	98.6	95.4	95.7	95.6	95.9	95.8	93.1	98.8	97.7	72.7	98.4	99.1	94.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.5	97.5	90.8	87.8	90.5	92.9	98.3	98.5	99.0	99.3	98.1	98.5	98.9	98.0	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
92.8	96.8	95.2	91.9	89.6	94.8	91.4	88.1	87.6	85.8	87.2	96.8	93.6	94.6	85.7	93.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	93	0%	2%
2	97	0%	0%
3	95	0%	-2%
4	92	-4%	-3%
5	90	-7%	-2%
6	95	-4%	0%
7	91	-5%	3%
8	88	-3%	6%
9	88	-1%	11%
10	86	1%	9%
11	87	4%	7%
12	97	2%	-1%
13	94	2%	-2%
14	95	0%	-2%
15	86	7%	-7%
16	94	0%	0%

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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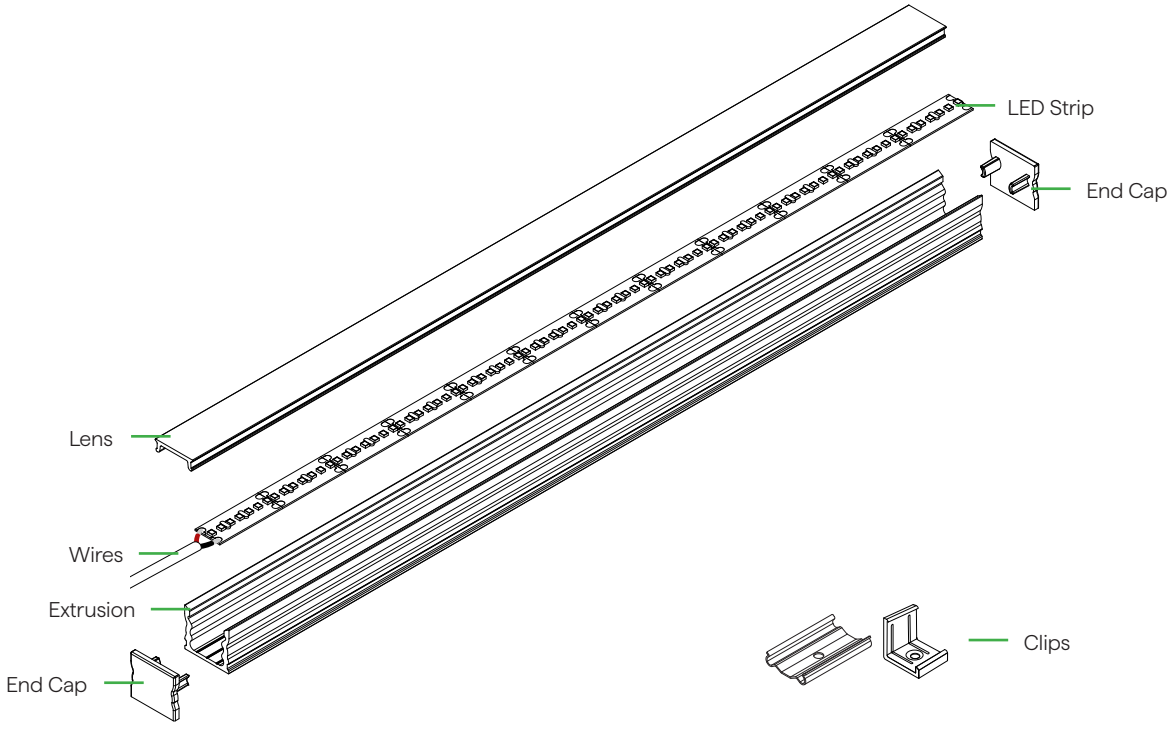
Specification subject to change. Rev-03-10-24

MATERIAL RECYCLING

LINEAR FIXTURES/EXTRUSIONS

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.



7	E	41	40
Lens Plastic End Caps Plastic Clips	LED Strip Wires	Extrusion Metal End Caps	Stainless Steel Clips

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