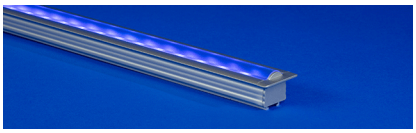
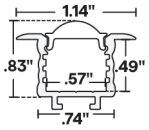
ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed





- Recessed fixture designed for dryall and millwork installations
- Choose from 12°, 14°, 20°, 30°, 45° or 60° beam angles
- Mounting options include spring or magnet mounting clips
- Features painted end caps to match extrusion finish
- Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS
EB2RGBW	6.0			STD	

ADDITIONAL INFORMATION REQUIRED TO ORDER

7 WIRE INPUT/ OUTPUT	8 CONNECTOR/ WIRE IN	9 CONNECTOR/ WIRE OUT	10 WIRE COLOR	11 WIRE TYPE	12 MOUNTING	13 FINISH	14 LENGTH (IN)	15 EXACT/ OPTIMAL

Sample Part Number: **EB2RGBW-6.0-30-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E**

1 PRODUCT

EB2RGBW

See following pages for compatible power supplies.

2 WATTS/FT

6.0	6.0W/ft

3 CCT

27	RGBW-2700K
30	RGBW-3000K

4 RATED

DRY	IP20
DMP	IP54

5 EFFICIENCY

STD	Standard

6 LENS

12	Optical 12°
14	Optical 14°
20	Optical 20°
30	Optical 30° DRY or DMP only
45	Optical 45° DRY or DMP only
60	Optical 60° DRY or DMP only

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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	End Feed
S2	Bottom Feed

PASS THROUGH (Input/output)

P1	End Feed
P2	Bottom Feed

For continuous mounting, consider bottom feed.

8 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)

9 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)

10 WIRE COLOR

WH	White
BK	Black

11 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated

CL2P only available with bare wire leads (BW)

12 MOUNTING

SP	Spring Clip
MG	Magnet

MG only available with RGBW 6.0

13 FINISH

ST	Satin
CU	Custom

Custom finishes require a longer lead time, consult factory

14 LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

15 EXACT/OPTIMAL

O	Optimal Illumination
E	Exact Specified Length

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.

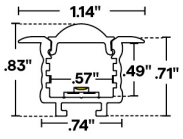
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Specification subject to change. Rev-03-25-26

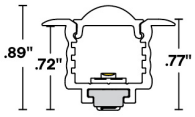
ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

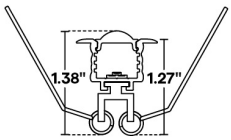
1 PRODUCT - DIMENSIONS



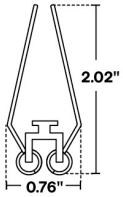
Profile with optical lens



Profile with optical lens and magnet mounting clip



Profile with optical lens and spring mounting clip



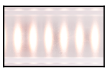
Spring mounting clip

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with EB2RGBW-**-30-DRY-STD

	6.0 W/FT							
	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
12	32	631	86	513	26	464	110	93
14	36	631	97	513	29	464	123	93
20	38	631	101	513	30	464	129	93
30	39	631	105	513	31	464	134	93
45	43	631	115	513	34	464	146	93
60	43	631	114	513	34	464	146	93

6 DIODE VISIBILITY

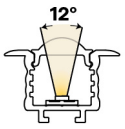


Optical lens

PHOTOMETRIC PERFORMANCE

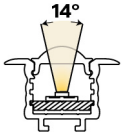
Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

12DEG



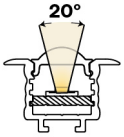
Optical 12°

14DEG



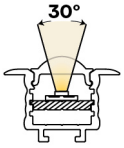
Optical 14°

20DEG



Optical 20°

30DEG



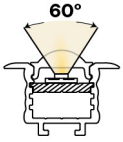
Optical 30°
DRY and DMP LEDs only

45DEG



Optical 45°
DRY and DMP LEDs only

60DEG



Optical 60°
DRY and DMP LEDs only

TEMPERATURE RATINGS

		6.0 W/FT	
		Min	Max
DRY	Ambient Operating Temp - Recessed	-4°F	110°F
DMP	Ambient Operating Temp - Recessed	-4°F	110°F

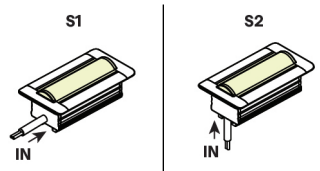
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ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

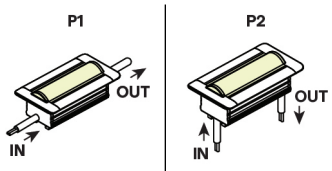
7 WIRE INPUT/OUTPUT

SINGLE (Input only)



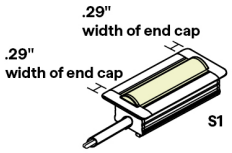
End Feed | Bottom Feed

PASS THROUGH (Input/Output)

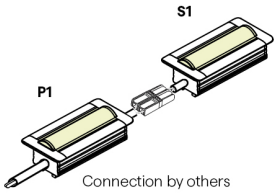


End Feed | Bottom Feed

CONFIGURATION OPTIONS

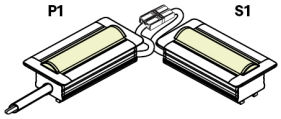


Single End Feed



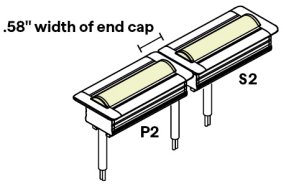
Connection by others

Non-Continuous End Feed

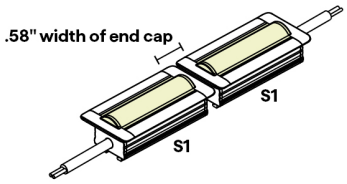


Connection by others

Non-Continuous Corner Feed



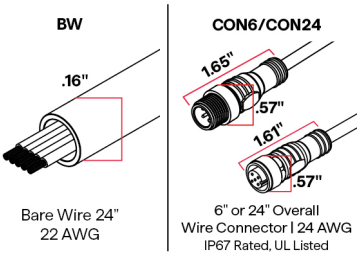
Non-Continuous Bottom Feed



Non-Continuous End to End Feed

8/9 CONNECTOR/WIRE – IN/OUT

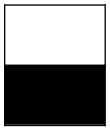
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



Bare Wire 24"
22 AWG

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

10 WIRE COLOR



White

Black

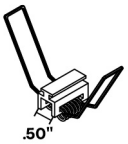
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ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

12 MOUNTING

SP



Spring Clip

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

To order separately use SP-01

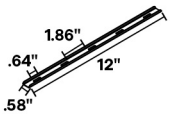
MG



Magnet Clip

One MG provided per foot
To order separately use MG-02

MMA-02



Magnet Mount
Accessory for MG-02

Sold separately, to order use MMA-02

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

Required when mounting to a non-magnetic surface

13 FINISH

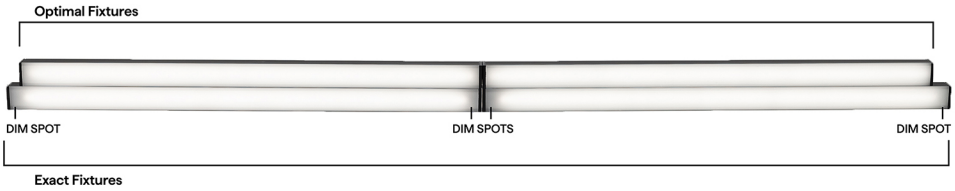
Satin

Custom finishes require a longer lead time, consult factory

14 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator → E/O Explained →

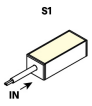
Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture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



RGBW DRY DMP LENGTHS BY INCH

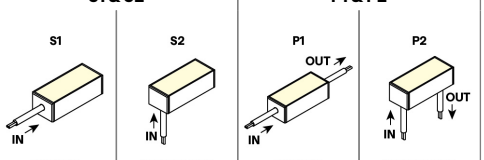
EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
12"	2"
13"	0.5"
14"	1"
15"	1.5"
16"	2"
17"	0.5"
18"	1"
19"	1.5"
20"	2"
21"	0.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"



OPTIMAL LENGTH

Requested Nominal Length	S1 & S2	P1 & P2
12"	8.51"	8.86"
13"	12.51"	12.86"
14"	12.51"	12.86"
15"	12.51"	12.86"
16"	12.51"	12.86"
17"	16.51"	16.86"
18"	16.51"	16.86"
19"	16.51"	16.86"
20"	16.51"	16.86"
21"	20.51"	20.86"
22"	20.51"	20.86"
23"	20.51"	20.86"
24"	20.51"	20.86"
36"	32.51"	32.86"
48"	44.51"	44.86"
60"	56.51"	56.86"
72"	68.51"	68.86"
84"	80.51"	80.86"
96"	92.51"	92.86"



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ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

COMPATIBLE POWER SUPPLIES

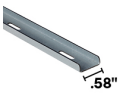
See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR
	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle

DIMMING PROTOCOL	INDOOR
	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle

COMPATIBLE MOUNTING ACCESSORIES

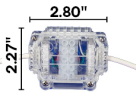
MMA-02



Magnet Mount Accessory of MG-02

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

iQ-DMX-STICK-GA2



DMX controller for changing color & dimming

iQ-DMX-STICK-DE3



DMX controller for changing color & dimming

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ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage

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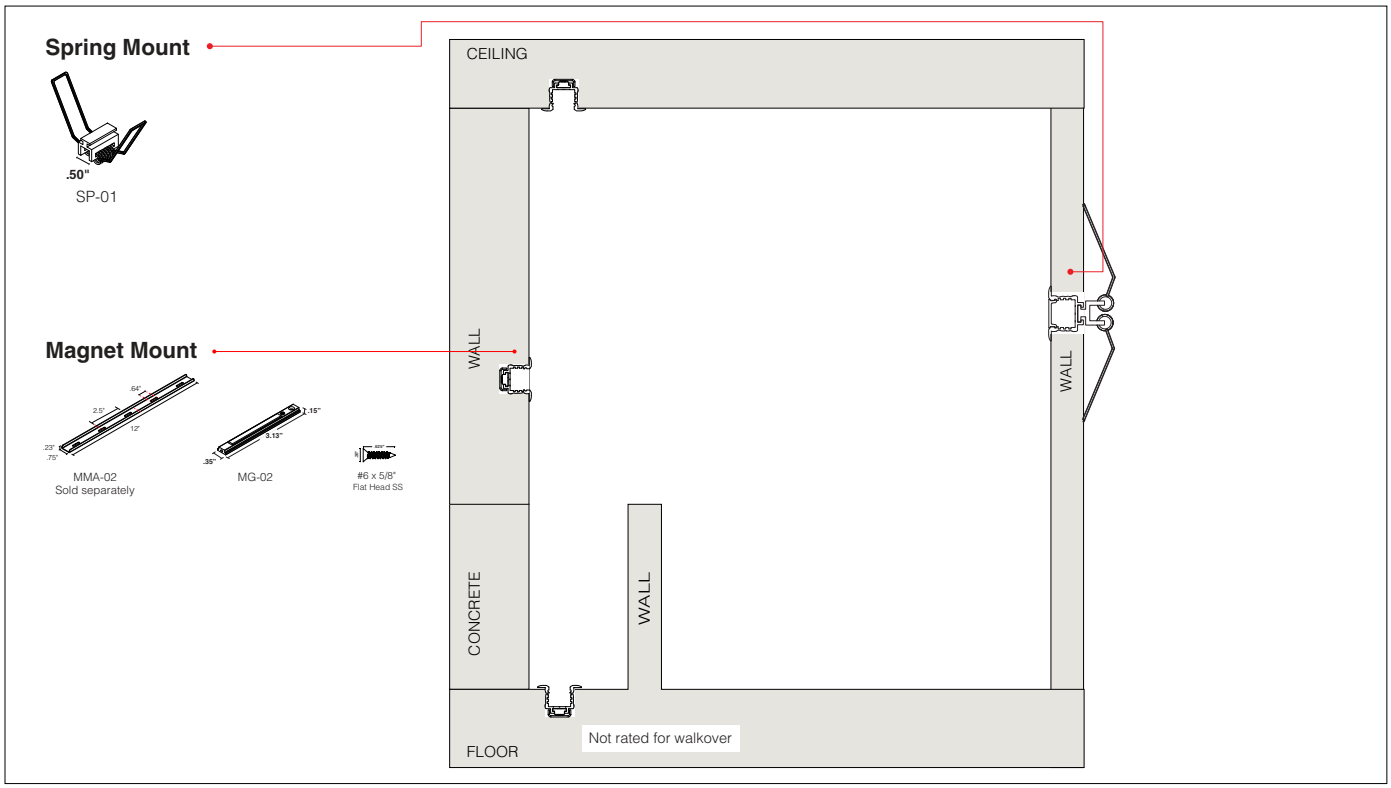
ESSENTIALS EMBD

Linear Fixture Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

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

METHODS OF INSTALLATION:



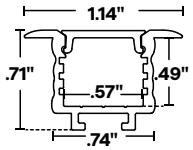
Recessed Mounting Method

- Spring Mount : Millwork (page 4)
- Magnet Mount : Millwork (page 5)

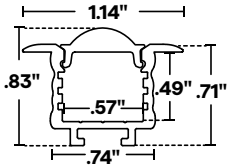
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ESSENTIALS EMBD

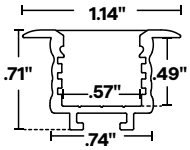
Linear Fixture Installation Instructions



EMBD-01



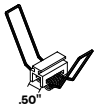
EMBD-02

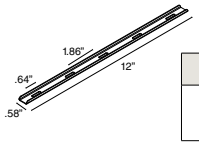


EMBD-03

COMPONENTS & HARDWARE

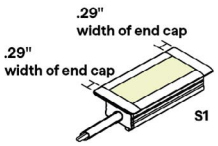
Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

SPRING CLIP	MAGNET CLIP
 SP-01	 MG-02 Included: Flat Head Screw #6x5/8"
• 2 clips provided for 4' or less; 4 clips provided for greater than 4'	• One magnet clip per foot

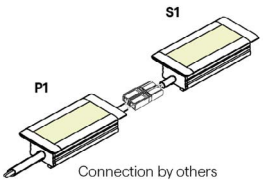
ACCESSORIES SOLD SEPARATELY
MAGNET MOUNT ACCESSORY; sold individually
 MMA-02   Included: Flat Head Screw #6x5/8"
• MMA-02 comes in 12" pieces; use at least one clip per MMA-02 accessory   • MMA-02 can be cut into smaller pieces, if desired

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CONFIGURATION OPTIONS

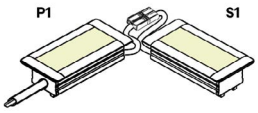


Single End Feed



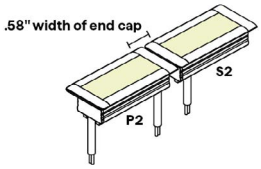
Connection by others

Non-Continuous End Feed

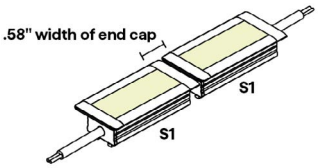


Connection by others

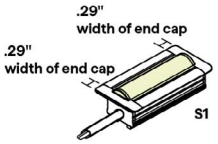
Non-Continuous Corner Feed



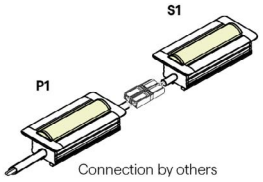
Continuous Bottom Feed



Continuous End to End Feed

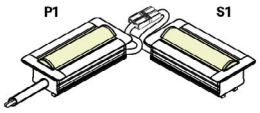


Single End Feed



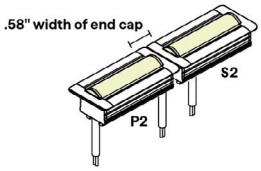
Connection by others

Non-Continuous End Feed

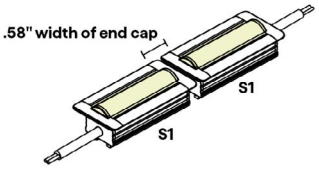


Connection by others

Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

Review wire method to ensure clean installation prior to mounting finished Fixture.

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

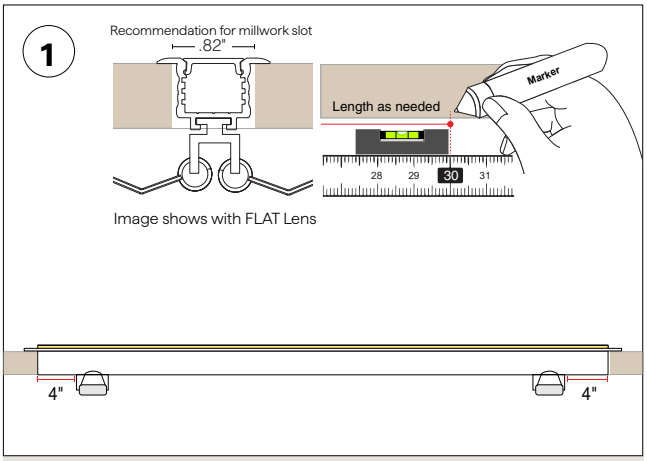
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ESSENTIALS EMBD

Linear Fixture Installation Instructions

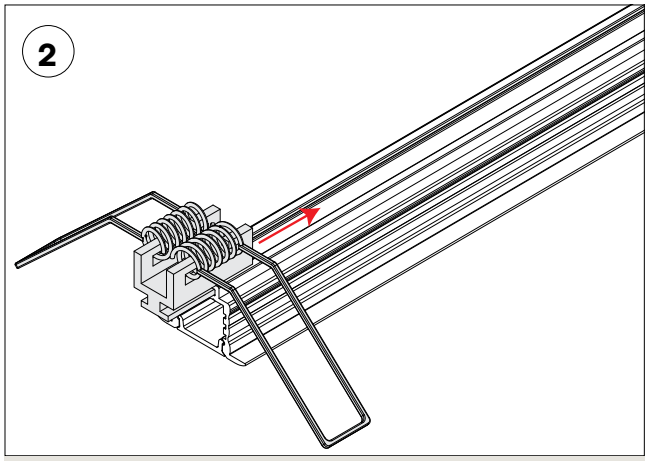
SURFACE MOUNTING METHOD: **SPRING MOUNT**

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

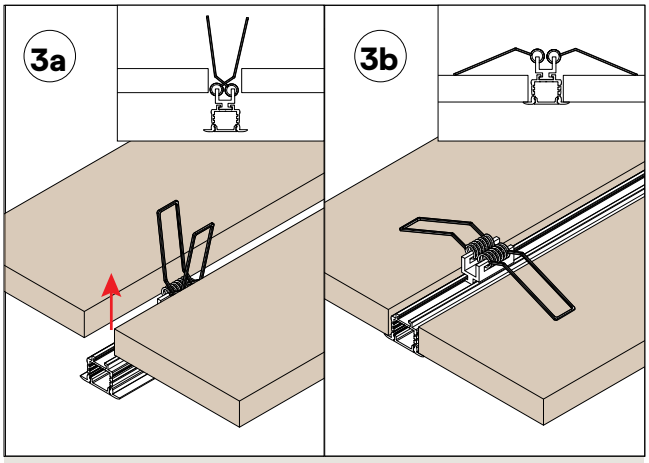


Determine the EMBD fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

NOTE: the drywall cut out should be 0.82 wide.

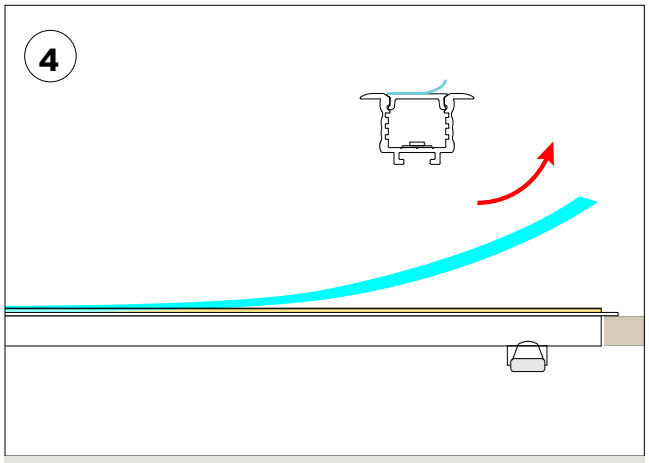


Slide in the spring clip from each end of the fixture.



a. Squeeze the spring clip's arms together and push it through the drywall cut out.

b. Once the spring arms have cleared the top of the drywall, they will snap back and secure the extrusion in place.



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

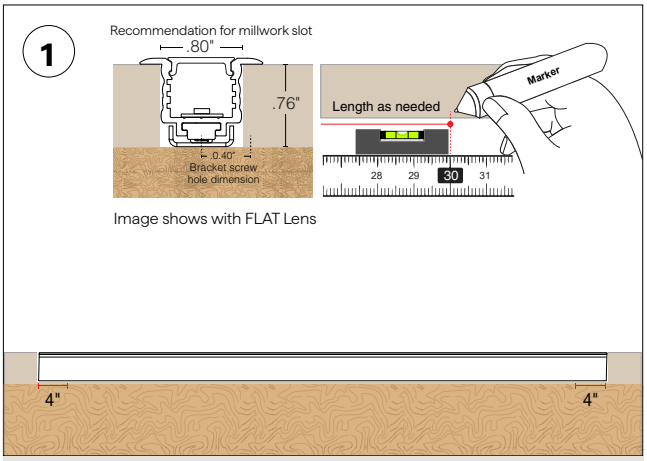
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ESSENTIALS EMBD

Linear Fixture Installation Instructions

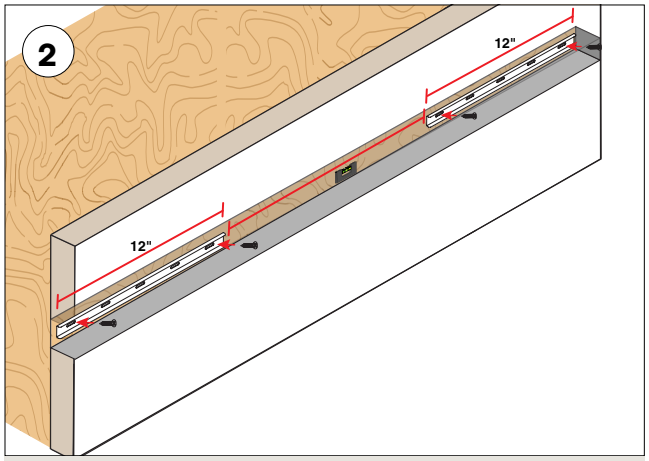
RECESSED MOUNTING METHOD: **MAGNET MILLWORK**

- One magnet clip per foot
- MMA-02 comes in 12" pieces; use at least one clip per MMA-02 accessory
- MMA-02 can be cut into smaller pieces, if desired



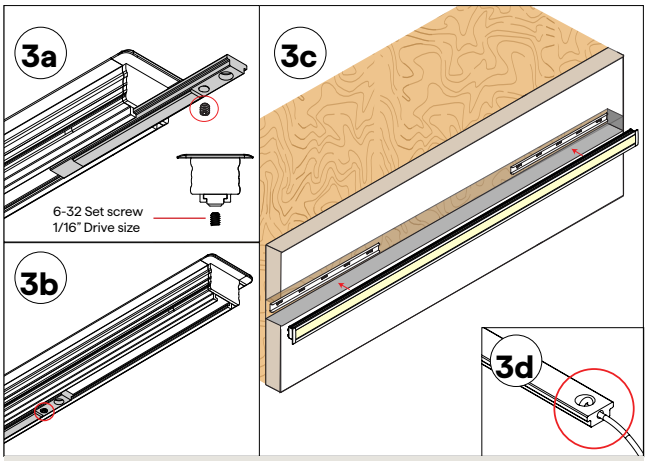
Determine the EMBD fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.

NOTE: Depth of the channel in the millwork is dependent on overall height with the magnet clip and Magnet Mount Accessory.



Mount the two #6 flat head screws into the 12" magnet mount accessory brackets through the slotted holes at each end. Ensure the screw head is flush with the magnet mount bracket.

NOTE: If surface application requires a longer screw, the screw size must be a #6 Flat Head.



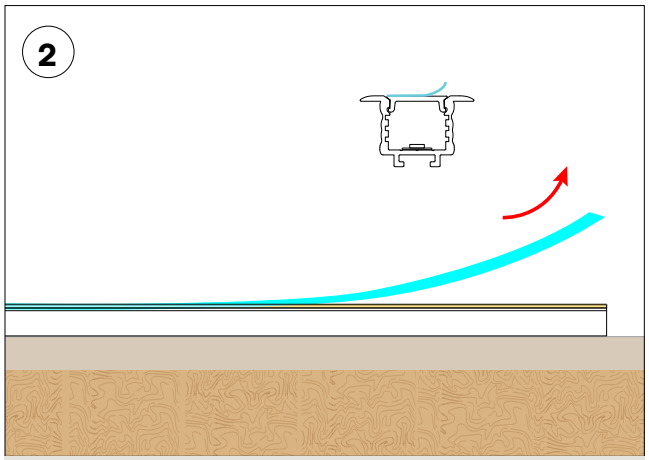
a. Slide magnet into the mounting track

b. Using the supplied set screw fasten the Non-Feed endcap that was removed, and secure the magnet clips into your desired location.

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

d. For installations requiring seismic precautions, monofiliment may be used with magnet clips as pictured.

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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EMBD-OPTICS (02) Linear Fixtures

RGBW-6.0W/FT

EB2RGBW-6.0-30-DRY-STD-12

3148 K

CRI: 91.2

CRI R9: 65.0

TM30 Rf: 89.9

TM30 Rg: 101.0

CQS: 88.9

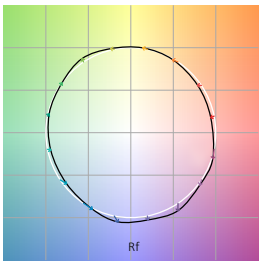
X: 0.427

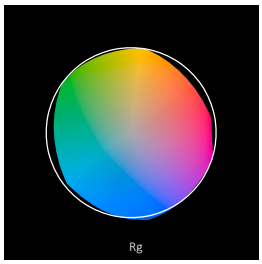
Y: 0.400

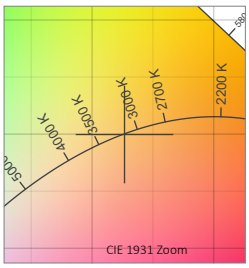
U: 0.246

V: 0.345

Δuv: -0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.0	93.3	92.1	91.9	90.3	89.9	94.3	86.0	65.0	82.1	90.8	71.1	92.2	94.6	89.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.6	97.5	82.7	83.1	88.0	88.3	87.1	91.3	95.3	90.2	90.0	91.2	92.3	88.4	89.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.5	91.9	86.5	90.6	92.0	92.9	92.8	95.0	93.4	85.1	82.3	88.2	92.9	89.0	90.0	86.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	92	-4%	3%
3	87	-1%	7%
4	91	1%	6%
5	92	2%	4%
6	93	4%	-1%
7	93	0%	-4%
8	95	-1%	-3%
9	93	-4%	2%
10	85	-4%	8%
11	82	0%	12%
12	88	6%	6%
13	93	5%	0%
14	89	7%	-5%
15	90	2%	-6%
16	86	1%	-11%

EB2RGBW-6.0-30-DRY-STD-30

3150 K

CRI: 91.1

CRI R9: 64.8

TM30 Rf: 89.6

TM30 Rg: 101.3

CQS: 88.6

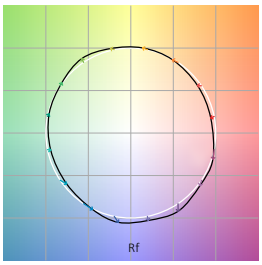
X: 0.426

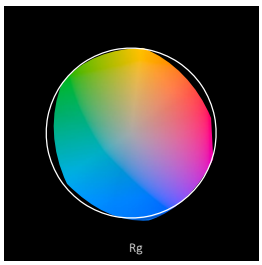
Y: 0.398

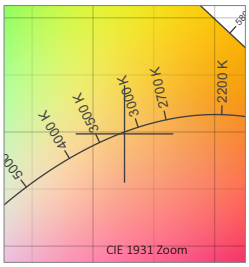
U: 0.246

V: 0.345

Δuv: -0.0007







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.1	93.3	91.8	91.8	90.3	89.8	94.0	85.9	64.8	81.9	90.7	70.8	92.2	94.5	90.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.5	97.5	82.0	82.7	87.8	87.9	86.4	91.0	95.2	89.8	89.6	90.8	92.1	88.3	88.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.4	91.7	85.8	90.1	91.6	92.1	92.5	94.5	93.4	85.1	81.9	87.7	92.6	88.9	89.7	86.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	92	-4%	3%
3	86	-1%	7%
4	90	1%	6%
5	92	2%	4%
6	92	5%	-1%
7	92	0%	-4%
8	95	-1%	-3%
9	93	-4%	1%
10	85	-4%	8%
11	82	0%	13%
12	88	6%	6%
13	93	5%	0%
14	89	7%	-5%
15	90	2%	-6%
16	86	1%	-11%

EB2RGBW-6.0-30-DRY-STD-60

3134 K

CRI: 91.2

CRI R9: 65.0

TM30 Rf: 89.8

TM30 Rg: 101.0

CQS: 88.9

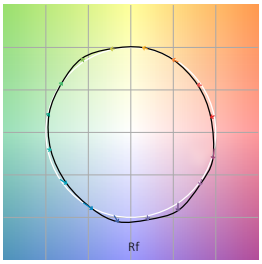
X: 0.428

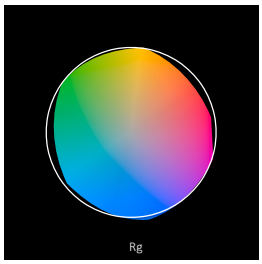
Y: 0.400

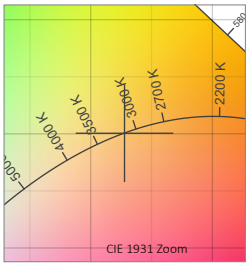
U: 0.246

V: 0.346

Δuv: -0.0001







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.2	93.3	91.7	92.1	90.4	89.8	94.4	86.1	65.0	81.8	90.9	70.3	92.3	94.4	90.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.6	97.5	82.4	83.0	87.9	88.3	87.0	91.4	95.2	90.2	90.1	91.5	92.6	88.5	89.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.4	92.0	86.6	90.9	91.5	92.8	92.8	95.0	93.3	84.8	82.0	87.9	92.8	88.8	89.9	85.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	92	-4%	3%
3	87	-1%	7%
4	91	1%	5%
5	92	1%	4%
6	93	4%	0%
7	93	0%	-4%
8	95	-1%	-3%
9	93	-4%	2%
10	85	-4%	8%
11	82	0%	12%
12	88	6%	6%
13	93	5%	0%
14	89	7%	-5%
15	90	2%	-6%
16	86	1%	-11%

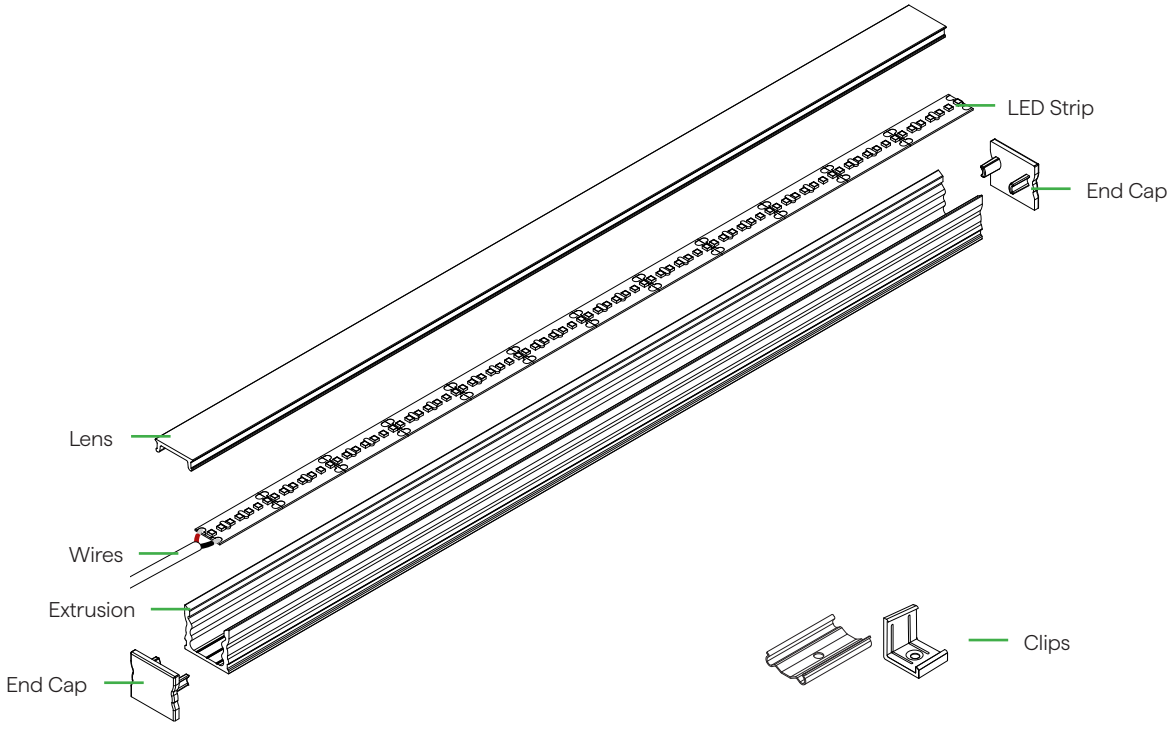
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MATERIAL RECYCLING

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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