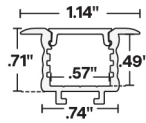
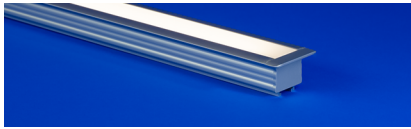




# ESSENTIALS EMBD-FLAT (01) SW-IA

## 24VDC Linear Fixtures - Recessed



- Recessed flanged fixture designed for drywall and millwork installations
- Choose from diffused, polar, or frosted lens options
- Mounting options include spring or magnet mounting clips
- Features painted end caps to match extrusion finish
- Utilize DMX and SPI protocols to control nominal 1" segments of specifiable white LEDs

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS	WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
EB1IA	5.0		DRY	STD										

Sample Part Number: **EB1IA-5.0-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SP-ST-48"-E**

1

PRODUCT

EB1IA

See following pages for compatible power supplies.

2

WATTS/FT

5.05.0W/ft

3

CCT

272700K  
303000K  
353500K  
404000K

4

RATED

DRYIP20

5

EFFICIENCY

STDStandard

6

LENS

DFDiffused  
PRPolar  
FRFrosted

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

S1Single 1 (Input only) - End Feed  
S2Single 2 (Input only) - Bottom Feed  
For continuous mounting, consider bottom feed.

P1Pass Through 1 (Input/output) - End Feed  
P2Pass Through 2 (Input/output) - Bottom Feed  
For continuous mounting, consider bottom feed.

8

CONNECTOR/WIRE IN

BWBare Wire (Standard 24")  
CON6Connector 6"  
CON24Connector 24"  
BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)  
BWBare Wire (Standard 24")  
CON6Connector 6"  
CON24Connector 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

CLSClosed End (No feed)

BWBare Wire (Standard 24")  
CON6Connector 6"  
CON24Connector 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

WHWhite  
BKBlack

11

WIRE TYPE

CL2Class 2  
CL2PPlenum Rated  
CL2P only available with bare wire leads (BW)

12

MOUNTING

SPSpring Clip  
MGMagnet

13

FINISH

STSatin  
CUCustom  
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

OOptimal Illumination  
EExact 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.

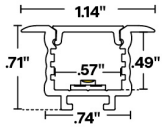
5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with Q-Tran power supplies



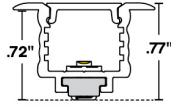
# ESSENTIALS EMBD-FLAT (01) SW-IA

24VDC Linear Fixtures - Recessed

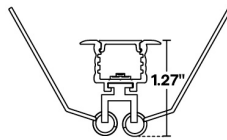
## 1 PRODUCT - DIMENSIONS



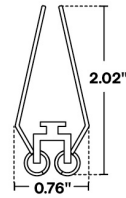
Profile with flat lens



Profile with flat lens and magnet mounting clip



Profile with flat lens and spring mounting clip



Spring mounting clip

## 6 DIODE VISIBILITY



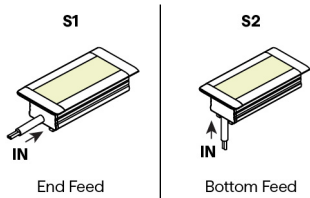
DF - Diffused lens

PR - Polar lens

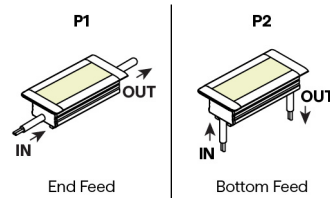
FR - Frosted lens

## 7 WIRE INPUT/OUTPUT

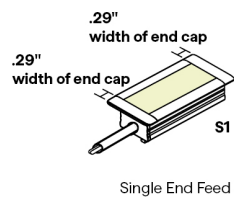
SINGLE (Input only)



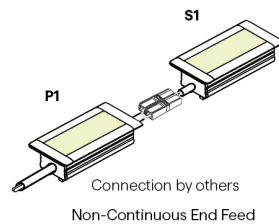
PASS THROUGH (Input/Output)



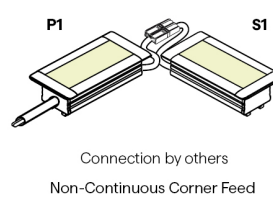
## CONFIGURATION OPTIONS



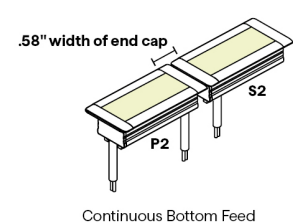
Single End Feed



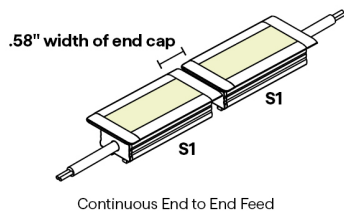
Connection by others  
Non-Continuous End Feed



Connection by others  
Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

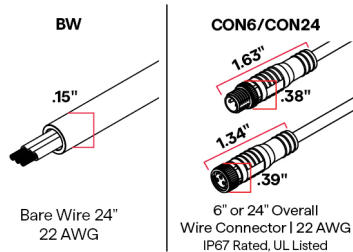


# ESSENTIALS EMBD-FLAT (01) SW-IA

24VDC Linear Fixtures - Recessed

## 8 / 9 CONNECTOR/WIRE – IN/OUT

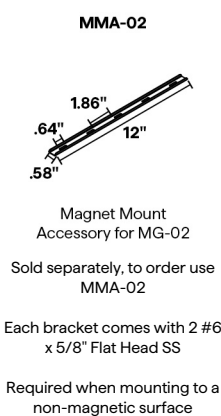
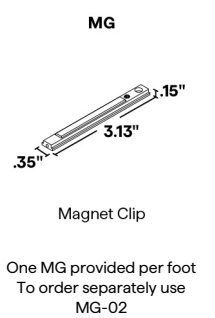
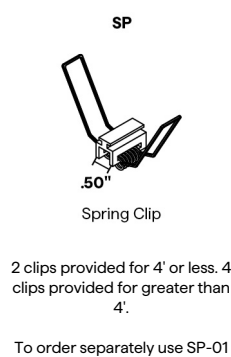
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



## 10 WIRE COLOR



## 12 MOUNTING



## 13 FINISH



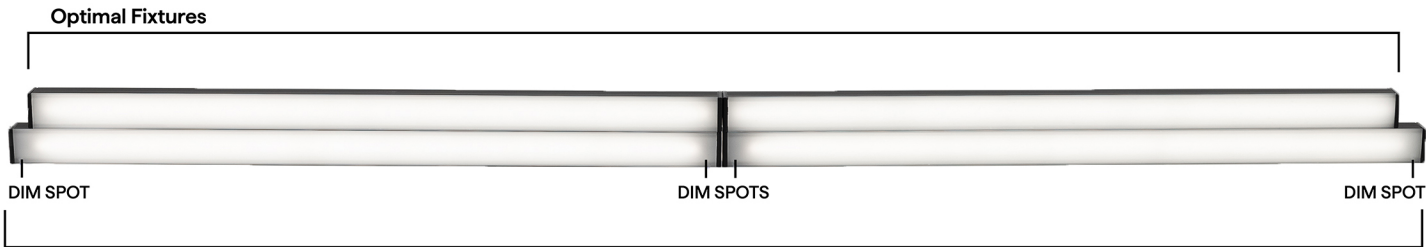
Custom finishes require a longer lead time, consult factory

## 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.





# ESSENTIALS EMBD-FLAT (01) SW-IA

## 24VDC Linear Fixtures - Recessed

### SW-IA DRY LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

#### EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	.975"
13"	1.475"
14"	.3"-1.975"
15"	.8"
16"	1.3"
17"	1.8"
18"	.625"
19"	1.125"
20"	1.625"
21"	.45"
22"	.95"
23"	1.45"
24"	1.95"
36"	1.25"
48"	0.55"
60"	1.525"
72"	0.825"
84"	1.8"
96"	1.1"

#### OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2		P1 & P2	
	S1 End Feed IN	S2 Bottom Feed IN	P1 End Feed IN	P2 Bottom Feed IN
12"		10.46"		10.71"
13"		10.46"		10.71"
14"		13.81"		10.71"
15"		13.81"		14.06"
16"		13.81"		14.06"
17"		13.81"		14.06"
18"		17.16"		17.41"
19"		17.16"		17.41"
20"		17.16"		17.41"
21"		20.51"		20.76"
22"		20.51"		20.76"
23"		20.51"		20.76"
24"		23.86"		20.76"
36"		33.91"		34.16"
48"		47.31"		47.56"
60"		57.36"		57.61"
72"		70.76"		71.01"
84"		80.81"		81.06"
96"		94.21"		94.46"

### COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR
	SW-IA
1%	QT-CAB-eLED+IA QTM-eLED+IA

DIMMING PROTOCOL	INDOOR
	SW-IA
DMX	QT-CAB-eLED+IA QTM-eLED+IA

### COMPATIBLE MOUNTING ACCESSORIES

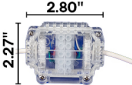









# ESSENTIALS EMBD-FLAT (01) SW-IA

24VDC Linear Fixtures - Recessed

## COMPATIBLE WIRING ACCESSORIES

<b>Q-mini-J5</b>  2.27" 2.80" UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	<b>BARREL-EXT</b>  8ft barrel cable extender DRY ONLY	<b>BARREL FOUR-FER</b>  Splits lead from one to four LED Barrel connector fixtures, DRY/DMP	<b>CON120-EXT</b>  10ft Con cable extender DRY/DMP/WET	<b>CON FOUR-FER</b>  Splits lead from one to four LED Con connectors DRY/DMP/WET	<b>CON M - BARREL F</b>  Male con to barrel cable adaptor DRY/DMP
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------

## COMPATIBLE CONTROL ACCESSORIES

### SCENE APP DONGLE

