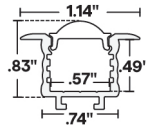
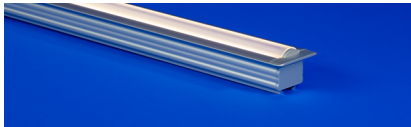




# ESSENTIALS EMBD-OPTICS (02)

## SW-IA

24VDC Linear Fixtures - Recessed



- Recessed fixture designed for drywall 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
- 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
EB2IA	5.0		DRY	STD										

Sample Part Number: EB2IA-5.0-30-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E

<b>1 PRODUCT</b> EB2IA See following pages for compatible power supplies.	<b>2 WATTS/FT</b> 5.0 5.0W/ft	<b>3 CCT</b> 27 2700K 30 3000K 35 3500K 40 4000K	<b>4 RATED</b> DRY IP20	<b>5 EFFICIENCY</b> STD Standard	<b>6 LENS</b> 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
<b>7 WIRE INPUT/OUTPUT</b> S1 Single 1 (Input only) - End Feed S2 Single 2 (Input only) - Bottom Feed For continuous mounting, consider bottom feed.  P1 Pass Through 1 (Input/output) - End Feed P2 Pass Through 2 (Input/output) - Bottom Feed For continuous mounting, consider bottom feed.	<b>8 CONNECTOR/WIRE IN</b> 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)	<b>9 CONNECTOR/WIRE OUT</b> CLS Closed End (No feed)  BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24"	<b>10 WIRE COLOR</b> WH White BK Black		
<b>11 WIRE TYPE</b> CL2 Class 2 CL2P Plenum Rated  CL2P only available with bare wire leads (BW)	<b>12 MOUNTING</b> SP Spring Clip MG Magnet	<b>13 FINISH</b> ST Satin CU Custom  Custom finishes require a longer lead time, consult factory	<b>14 LENGTH (IN)</b> Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	<b>15 EXACT/OPTIMAL</b> 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.	

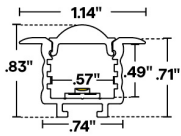
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



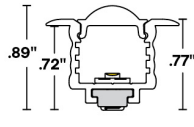
# ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed

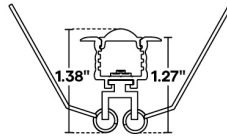
## 1 PRODUCT - DIMENSIONS



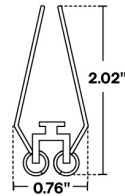
Profile with optical lens



Profile with optical lens and magnet mounting clip



Profile with optical lens and spring mounting clip



Spring mounting clip

## 6 DIODE VISIBILITY



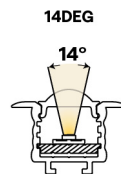
Optical lens

## PHOTOMETRIC PERFORMANCE

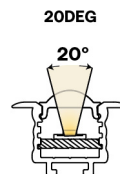
Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.



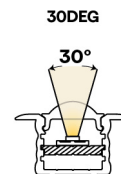
Optical 12°



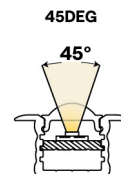
Optical 14°



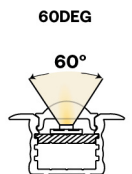
Optical 20°



Optical 30°  
DRY and DMP  
LEDs only



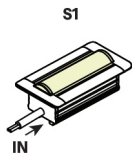
Optical 45°  
DRY and DMP  
LEDs only



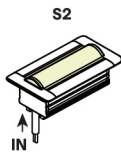
Optical 60°  
DRY and DMP  
LEDs only

## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)

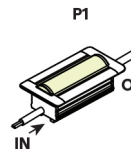


End Feed

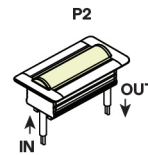


Bottom Feed

PASS THROUGH (Input/Output)

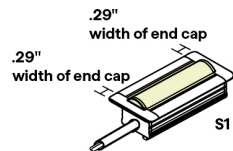


End Feed

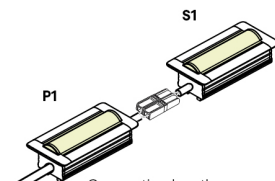


Bottom Feed

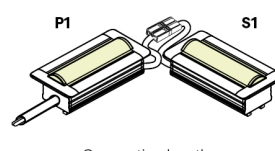
## CONFIGURATION OPTIONS



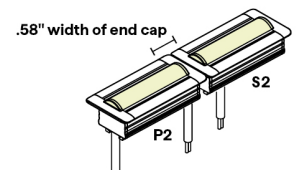
Single End Feed



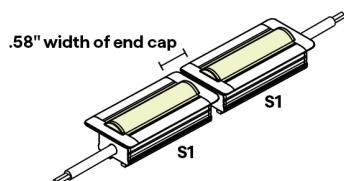
Connection by others  
Non-Continuous End Feed



Connection by others  
Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

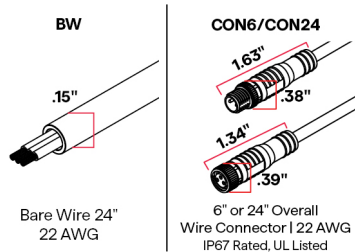


# ESSENTIALS EMBD-OPTICS (02) SW-IA

## 24VDC Linear Fixtures - Recessed

### 8 / 9 CONNECTOR/WIRE – IN/OUT

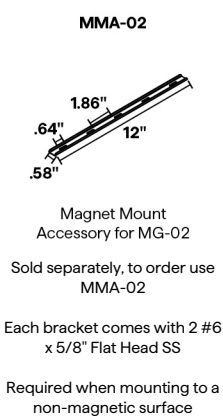
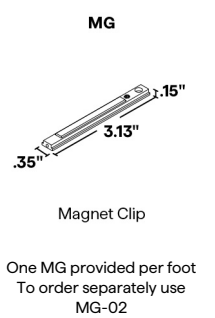
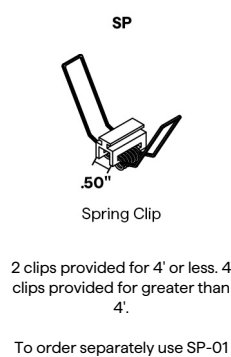
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



### 10 WIRE COLOR



### 12 MOUNTING



### 13 FINISH



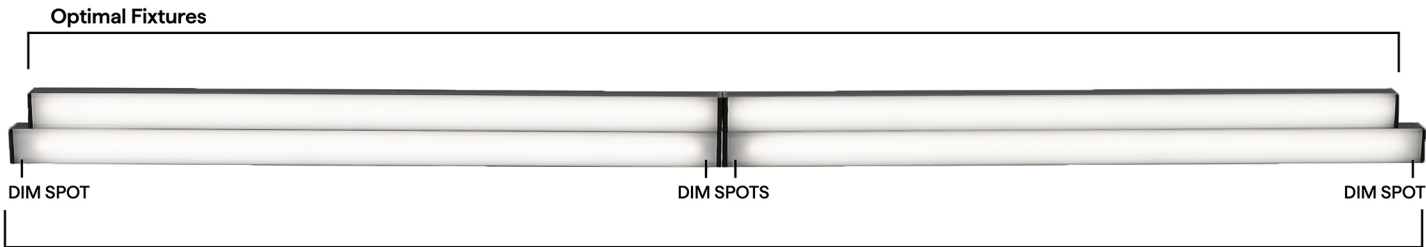
Custom finishes require a longer lead time, consult factory

### 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-OPTICS (02) SW-IA

## 24VDC Linear Fixtures - Recessed

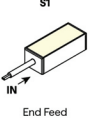
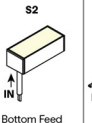
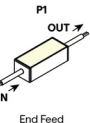
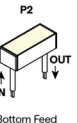
### SW-IA DRY LENGTHS BY INCH

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	
				
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


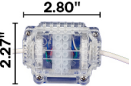









# ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed

## COMPATIBLE WIRING ACCESSORIES

<p><b>Q-mini-J</b></p>  <p>2" 1.25"</p> <p>UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)</p>	<p><b>Q-mini-J5</b></p>  <p>2.80" 2.27"</p> <p>UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)</p>	<p><b>BARREL-EXT</b></p>  <p>8ft barrel cable extender DRY ONLY</p>	<p><b>BARREL FOUR-FER</b></p>  <p>Splits lead from one to four LED Barrel connector fixtures, DRY/DMP</p>	<p><b>CON120-EXT</b></p>  <p>10ft Con cable extender DRY/DMP/WET</p>	<p><b>CON FOUR-FER</b></p>  <p>Splits lead from one to four LED Con connectors DRY/DMP/WET</p>	<p><b>CON M - BARREL F</b></p>  <p>Male con to barrel cable adaptor DRY/DMP</p>
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