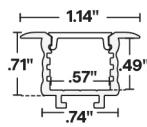




# ESSENTIALS EMBD-FLAT (01) SW-HE

## 24VDC Linear Fixtures - Recessed



- Recessed flanged fixture designed for drywall and millwork installations
- Choose from diffused, polar, or frosted lens options for varying diode visibility and beam angles
- Flanged fixture designed for dry wall installations
- Mounting options include magnet or spring mounting clips
- Features painted end caps to match extrusion finish
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Can be suitable for exterior use when specified as wet, contact factory for more information



**410.2 & 410.10**  
Closet Rated  
up to 4.0W/ft



Sample Part Number: **EB1SW-3.0HE-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SP-ST-48"-E**

1 PRODUCT	2 WATTS/FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS
<b>EB1SW</b> <b>EB1SW-USA</b>  Select USA option for BAA and BABA projects. SW-HE only. Only DRY ratings apply.  See following pages for compatible power supplies.	<b>1.5HE</b> 1.5W/ft HE <b>3.0HE</b> 3.0W/ft HE <b>6.0HE</b> 6.0W/ft HE	<b>20</b> 2000K <b>22</b> 2200K <b>24</b> 2400K <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>DRY</b> IP20	<b>STD</b> Standard	<b>DF</b> Diffused <b>PR</b> Polar <b>FR</b> Frosted
	<b>3.0HE+</b> 3.0W/ft HE+ <b>6.0HE+</b> 6.0W/ft HE+	<b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K			For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages
	<b>1.5HE</b> 1.5W/ft HE <b>3.0HE</b> 3.0W/ft HE <b>6.0HE</b> 6.0W/ft HE	<b>24</b> 2400K <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>DMP</b> IP54		
	<b>3.0HE+</b> 3.0W/ft HE+	<b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>WET</b> IP67	Can be suitable for exterior use, contact factory for more information	

7	WIRE INPUT/OUTPUT	8	CONNECTOR/WIRE IN	9	CONNECTOR/WIRE OUT	10	WIRE COLOR
<b>S1</b>	Single 1 (Input only) - End Feed	<b>BW</b>	Bare Wire (Standard 24")	<b>CLS</b>	Closed End (No feed)	<b>WH</b>	White
<b>S2</b>	Single 2 (Input only) - Bottom Feed	<b>BRL</b>	Barrel	<b>BK</b>	Black		
		<b>CON6</b>	Connector 6"	<b>N/A</b>	For Barrel		
		<b>CON24</b>	Connector 24"				
<b>P1</b>	Pass Through 1 (Input/output) - End Feed	<b>BW</b>	Bare Wire (Standard 24")	<b>BW</b>	Bare Wire (Standard 24")	<b>WH</b>	White
<b>P2</b>	Pass Through 2 (Input/output) - Bottom Feed	<b>BRL</b>	Barrel	<b>BRL</b>	Barrel	<b>BK</b>	Black
		<b>CON6</b>	Connector 6"	<b>CON6</b>	Connector 6"	<b>N/A</b>	For Barrel
		<b>CON24</b>	Connector 24"	<b>CON24</b>	Connector 24"		
							wet barrel only available in black

For continuous mounting, consider bottom feed.

BW: Standard length is 24", Max length is 120".  
Request custom length by writing in part number  
next to BW (example: BW48)

BW: Standard length is 24", Max length is 120".  
Request custom length by writing in part number  
next to BW (example: BW48)

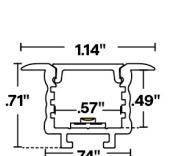
<b>11</b>	<b>WIRE TYPE</b>	<b>12</b>	<b>MOUNTING</b>	<b>13</b>	<b>FINISH</b>	<b>14</b>	<b>LENGTH (IN)</b>	<b>15</b>	<b>EXACT/OPTIMAL</b>
<b>CL2</b> Class 2 <b>CL2P</b> Plenum Rated <b>N/A</b> For Barrel	<b>SP</b> Spring Clip <b>MG</b> Magnet	<b>ST</b> Satin <b>CU</b> Custom	Custom finishes require a longer lead time, consult factory	Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	<b>O</b> Optimal Illumination <b>E</b> 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.			



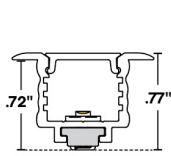
# ESSENTIALS EMBD-FLAT (01) SW-HE

24VDC Linear Fixtures - Recessed

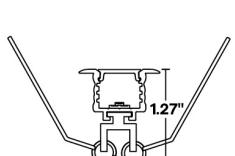
## 1 PRODUCT - DIMENSIONS



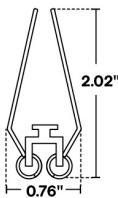
Profile with flat lens



Profile with flat lens and magnet mounting clip



Profile with flat lens and spring mounting clip



Spring mounting clip

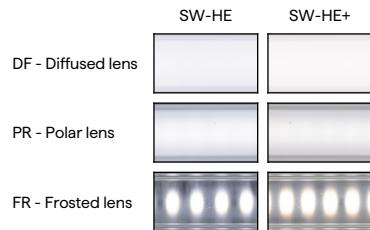
## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]

Tested with EB1SW-\*\*-30-DRY-STD

	1.5HE W/FT	3.0HE W/FT	3.0HE+ W/FT	6.0HE W/FT	6.0HE+ W/FT					
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI		
FR	159	98	291	98	418	92	551	98	773	92
PR	141	98	259	98	364	92	491	98	673	92
DF	121	98	222	98	309	92	421	98	571	92

## 6 DIODE VISIBILITY



## TEMPERATURE RATINGS

		1.5 HE W/FT		3.0 HE W/FT		3.0 HE+ W/FT		6.0 HE W/FT		6.0 HE+ W/FT	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Recessed	-4°F	140°F	-4°F	135°F	-13°F	135°F	-4°F	110°F	-13°F	110°F
DMP	Ambient Operating Temp - Recessed	-4°F	135°F	-4°F	130°F	**	**	-4°F	105°F	**	**
WET	Ambient Operating Temp - Recessed	-4°F	135°F	-4°F	130°F	-13°F	130°F	-4°F	105°F	**	**

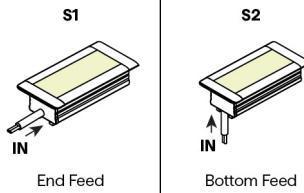


# ESSENTIALS EMBD-FLAT (01) SW-HE

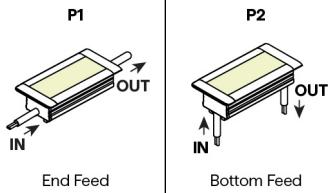
24VDC Linear Fixtures - Recessed

## 7 WIRE INPUT/OUTPUT

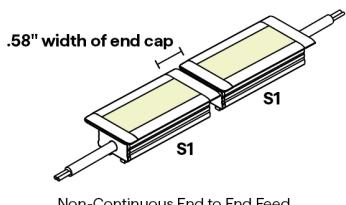
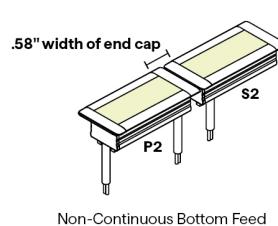
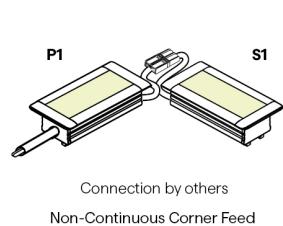
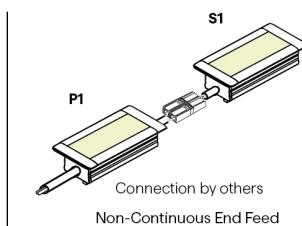
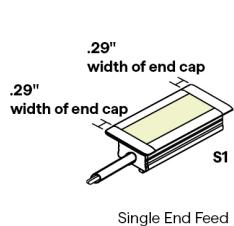
SINGLE (Input only)



PASS THROUGH (Input/Output)

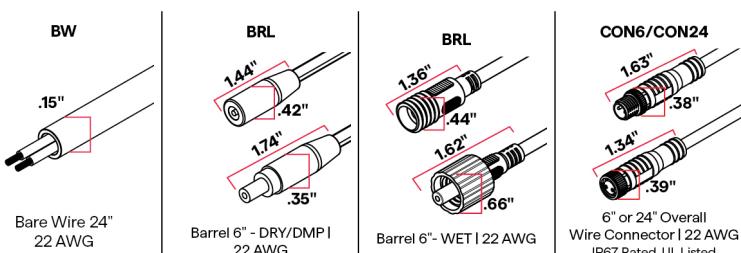


## CONFIGURATION OPTIONS



## 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

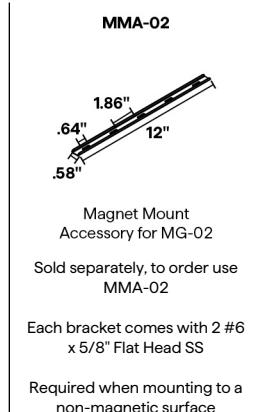
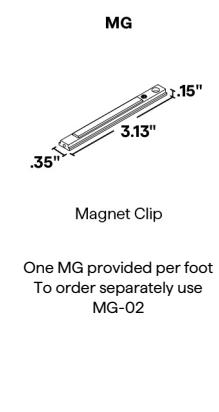
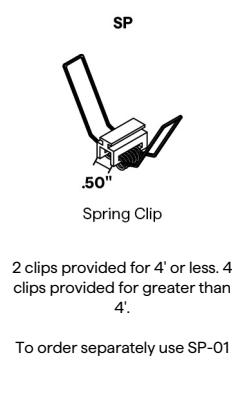




# ESSENTIALS EMBD-FLAT (01) SW-HE

24VDC Linear Fixtures - Recessed

## 12 MOUNTING



## 13 FINISH



Custom finishes require a longer lead time, consult factory

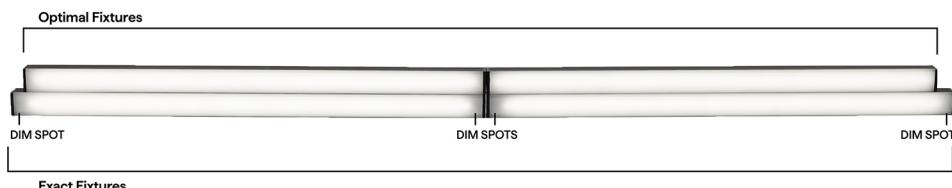
Custom finishes require a longer lead time, consult factory

## 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.



## SW-HE, SW-HE+ DRY DMP LENGTHS BY INCH

### EXACT LENGTH

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

### OPTIMAL LENGTH

Requested Nominal Length	S1 & S2		P1 & P2	
	S1 End Feed	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed
12"	10.41"		10.66"	
13"	12.41"		12.66"	
14"	12.41"		12.66"	
15"	14.41"		14.66"	
16"	14.41"		14.66"	
17"	16.41"		16.66"	
18"	16.41"		16.66"	
19"	18.41"		18.66"	
20"	18.41"		18.66"	
21"	20.41"		20.66"	
22"	20.41"		20.66"	
23"	22.41"		22.66"	
24"	22.41"		22.66"	
36"	34.41"		34.66"	
48"	46.41"		46.66"	
60"	58.41"		58.66"	
72"	70.41"		70.66"	
84"	82.41"		82.66"	
96"	94.41"		94.66"	



# ESSENTIALS EMBD-FLAT (01) SW-HE

24VDC Linear Fixtures - Recessed

## SW-HE+ WET LENGTHS BY INCH

### EXACT LENGTH

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

### OPTIMAL LENGTH

Requested Nominal Length	S1 & S2		P1 & P2	
	S1	S2	P1	P2
12"	10.61"		10.76"	
13"	12.61"		12.76"	
14"	12.61"		12.76"	
15"	14.61"		14.76"	
16"	14.61"		14.76"	
17"	16.61"		16.76"	
18"	16.61"		16.76"	
19"	18.61"		18.76"	
20"	18.61"		18.76"	
21"	20.61"		20.76"	
22"	20.61"		20.76"	
23"	22.61"		22.76"	
24"	22.61"		22.76"	
36"	34.61"		34.76"	
48"	46.61"		46.76"	
60"	58.61"		58.76"	
72"	70.61"		70.76"	
84"	82.61"		82.76"	
96"	94.61"		94.76"	

## COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR	OUTDOOR
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH+QD1	QOM-DC+CAP QOM-PH
0.1%	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AVN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AVN QTM-eLED+0-10V QTM-eLED+0-10V-AVN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V
1%	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	



# ESSENTIALS EMBD-FLAT (01) SW-HE

24VDC Linear Fixtures - Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND
Phase	Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH+QD1	Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V
0-10V	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
Lutron Athena	QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN	
ECO System	QTM-eLED(E)	
DMX	QZ-DMX	Q-SET-QZ-DMX QZ-DMX
DALI-2: DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	

## COMPATIBLE MOUNTING ACCESSORIES

MMA-02



Magnet Mount Accessory  
of MG-02