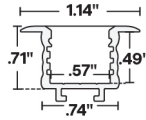
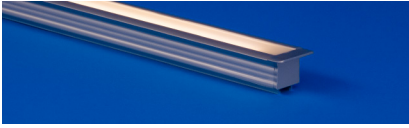




# ESSENTIALS EMBD- ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

## 24VDC Linear Fixtures - Recessed



- Recessed flanged fixture designed for drywall and millwork installations
- Features high quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Encapsulation available in clear or translucent
- Suitable for indoor and outdoor locations (IK10)
- Mounting options include spring or magnet mounting clips
- Features painted end caps to match extrusion finish or clear end caps to achieve seamless appearance of long runs
- 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
- Used in applications where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS	WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	INPUT END CAP	OUTPUT END CAP	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
			ENC	STD					STD	STD						

Sample Part Number: **EB3DW-3.0-24/30-ENC-STD-TL-P1-BW-BW-STD-STD-BK-CL2-SP-ST-48"-E**

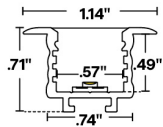
<div><div>1</div><div>PRODUCT</div></div> <div><div>EB3DW</div><div>EB3DW-USA</div><div>Select USA option for BAA and BABA projects.</div><div>LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.</div></div>	<div><div>2</div><div>WATTS/FT</div></div> <div><div>1.5HE</div><div>1.5W/ft HE</div><div>2.5HE</div><div>2.5W/ft HE</div></div>	<div><div>3</div><div>CCT</div></div> <div><div>24/30</div><div>2400K/3000K</div><div>27/40</div><div>2700K/4000K</div></div>	<div><div>4</div><div>RATED</div></div> <div><div>ENC</div><div>IP67</div></div>	<div><div>5</div><div>EFFICIENCY</div></div> <div><div>STD</div><div>Standard</div></div>	<div><div>6</div><div>LENS</div></div> <div><div>CL</div><div>Clear</div><div>TL</div><div>Translucent</div><div>For representation of LED visibility, see Diode Visibility section on following pages.</div><div>For beam angles, see Photometric Performance section on following pages</div></div>
<div><div>7</div><div>WIRE INPUT/OUTPUT</div></div> <div><div>S1</div><div>Single 1 (Input only) - End Feed</div><div>S2</div><div>Single 2 (Input only) - Bottom Feed</div><div>P1</div><div>Pass Through 1 (Input/output) - End Feed</div><div>P2</div><div>Pass Through 2 (Input/output) - Bottom Feed</div></div>	<div><div>8</div><div>CONNECTOR/WIRE IN</div></div> <div><div>BW</div><div>Bare Wire (Standard 24")</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div><div>BW</div><div>Bare Wire (Standard 24")</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div></div>	<div><div>9</div><div>CONNECTOR/WIRE OUT</div></div> <div><div>CLS</div><div>Closed End (No feed)</div><div>BW</div><div>Bare Wire (Standard 24")</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div></div>			
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)	
<div><div>10</div><div>INPUT END CAP</div></div> <div><div>STD</div><div>Standard</div><div>STD - End cap matches fixture finish chosen</div></div>	<div><div>11</div><div>OUTPUT END CAP</div></div> <div><div>STD</div><div>Standard</div><div>STD - End cap matches fixture finish chosen</div></div>	<div><div>12</div><div>WIRE COLOR</div></div> <div><div>WH</div><div>White</div><div>BK</div><div>Black</div></div>	<div><div>13</div><div>WIRE TYPE</div></div> <div><div>CL2</div><div>Class 2</div><div>CL2P</div><div>Plenum Rated</div><div>CL2P only available with bare wire leads (BW)</div></div>		
<div><div>14</div><div>MOUNTING</div></div> <div><div>SP</div><div>Spring Clip</div><div>MG</div><div>Magnet</div></div>	<div><div>15</div><div>FINISH</div></div> <div><div>ST</div><div>Satin</div><div>CU</div><div>Custom</div><div>Custom finishes require a longer lead time, consult factory</div></div>	<div><div>16</div><div>LENGTH (IN)</div></div> <div><div>Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".</div></div>	<div><div>17</div><div>EXACT/OPTIMAL</div></div> <div><div>O</div><div>Optimal Illumination</div><div>E</div><div>Exact Specified Length</div><div>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.</div></div>		



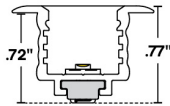
# ESSENTIALS EMBD-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

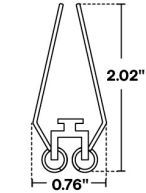
## 1 PRODUCT - DIMENSIONS



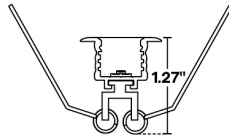
Profile



Profile with magnet mounting clip



Spring mounting clip



Profile with spring mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]  
Tested with EB3DW-\*\*-30-ENC-STD

	1.5HE W/FT		2.5HE W/FT	
	3000K		3000K	
	LM/FT	CRI	LM/FT	CRI
CL	87	98	137	98
TL	69	98	110	98

## 6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

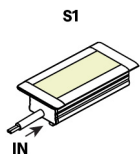
ENC/TL - Translucent encapsulation

## TEMPERATURE RATINGS

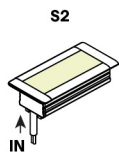
	DW 1.5 HE W/FT		DW 3.0 HE W/FT		DW 2.5 HE W/FT		DW 5.0 HE W/FT	
	QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply	
	Min	Max	Min	Max	Min	Max	Min	Max
Ambient Operating Temp - Recessed	-4°F	130°F	-4°F	110°F	-4°F	120°F	-4°F	95°F

## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)

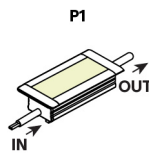


End Feed

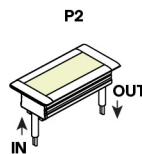


Bottom Feed

PASS THROUGH (Input/Output)



End Feed



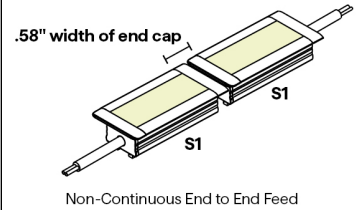
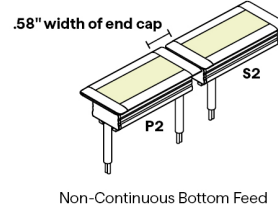
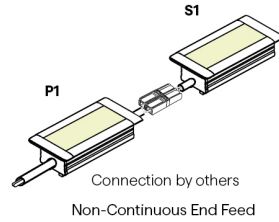
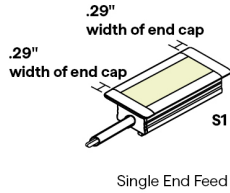
Bottom Feed



# ESSENTIALS EMBD-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

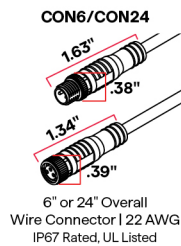
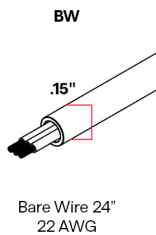
24VDC Linear Fixtures - Recessed

## CONFIGURATION OPTIONS



## 8 / 9 CONNECTOR/WIRE - IN/OUT

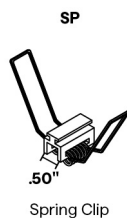
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



## 12 WIRE COLOR



## 14 MOUNTING



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

To order separately use SP-01

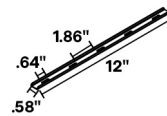
## MG



One MG provided per foot

To order separately use MG-02

## MMA-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

## 15 FINISH



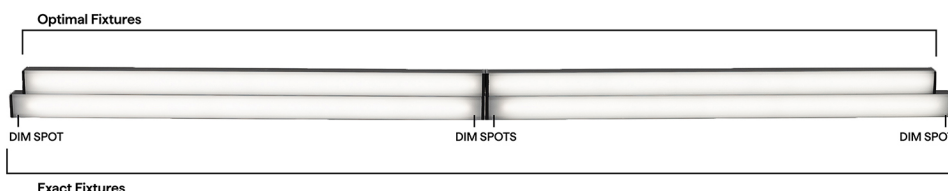
Custom finishes require a longer lead time, consult factory

## 17 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.



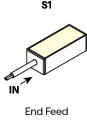


# ESSENTIALS EMBD-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

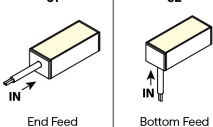
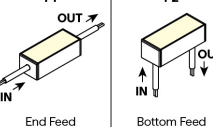
24VDC Linear Fixtures - Recessed

## DW-HE ENC 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 & S2 	P1 & P2 
12"	10.51"	10.86"
13"	12.51"	12.86"
14"	12.51"	12.86"
15"	14.51"	14.86"
16"	14.51"	14.86"
17"	16.51"	16.86"
18"	16.51"	16.86"
19"	18.51"	18.86"
20"	18.51"	18.86"
21"	20.51"	20.86"
22"	20.51"	20.86"
23"	22.51"	22.86"
24"	22.51"	22.86"
36"	34.51"	34.86"
48"	46.51"	46.86"
60"	58.51"	58.86"
72"	70.51"	70.86"
84"	82.51"	82.86"
96"	94.51"	94.86"

## 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
	DW-HE Tunable Applications	DW-HE Tunable Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QTM-eLED+TW-AWN QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+TW QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle	



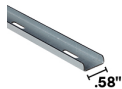
# ESSENTIALS EMBD-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	DW-HE Tunable Applications	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN	QOM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+TW-AWN	
DMX LED wattage must be doubled for DW-HE products	QZ-DMX	Q-SET-QZ-DMX 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	QOM-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	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with TW App Dongle	

## COMPATIBLE MOUNTING ACCESSORIES

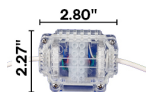
MMA-02



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



# ESSENTIALS EMBD-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

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## COMPATIBLE APPS

### NFC APP



Read and write  
DMX addresses and  
adjust voltage