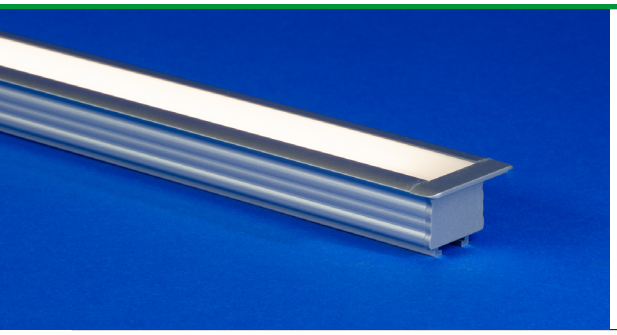
EMBD-FLAT (01) Linear Fixtures



EMBD-Flat (01) is a fully assembled recessed-mount linear fixture that integrates with millwork and other wall styles to create a clean, unobtrusive aesthetic. Its specification-grade satin-finished construction is available with an assortment of LED light engines to provide seamless light lines. EMBD's outer trim sits flush to the surface and recesses in at a depth of 0.77" with the magnet mounting clip and 1.27" with the spring mount clip. Each unit has power leads from one or both sides of the housing for multi-unit connection.

Part Number Builder

Static White

JA8-2016 | 1-BIN 1-STEP | NEC 410.2 and 410.16 Closet Rated in SW1.5-4.0 | c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1SW				STD								ST	
Voltage: 24 VDC Typical lumens at 5.0W/ft with FR lens at 3000K: 327 lm/ft	1.5 3.0 4.0 5.0 6.0	20 22 24 27 30 35 40	DRY (IP20)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SP MG	ST	
	1.5 3.0 4.0 5.0	24 27 30 35 40	DMP (IP54)			P1 P2 Pass through	BW BRL CON6 CON24	BW BRL CON6 CON24					
	1.5 3.0 4.0 5.0	20 22 24 27 30 35 40	WET (IP67)										

*Available in 1" increments for 1.5W/ft - 5.0W/ft and 2" increments for 6.0W/ft. Maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Static White High Efficacy

JA8-2016 | 1-BIN 1-STEP | NEC 410.2 and 410.16 Closet Rated in 1.5HE-3.0HE | c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1SW				STD								ST	
Voltage: 24 VDC Typical lumens at 6.0W/ft with FR lens at 3000K: 555 lm/ft	1.5HE 3.0HE 6.0HE	20 22 24 27 30 35 40	DRY (IP20)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SP MG	ST	
		24 27 30 35 40	DMP (IP54)			P1 P2	BW BRL CON6 CON24	BW BRL CON6 CON24					

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- If selecting **BRL**, select N/A for wire color and type
- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- **One Step, One Bin** based on 5W/ft

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot
- UL 2108: Type IC recessed inherently protected
- Suitable for installation in drywall

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EMBD-FLAT (01) Linear Fixtures

Static White High Efficacy Plus

NEC 410.2 and 410.16 Closet Rated in 3.0HE | c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1SW				STD								ST	
	3.0HE+ 6.0HE+	27 30 35 40	DRY (IP20)	STD Standard	FR PR DF	S1 S2 (Single (Closed exit))	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SP MG	ST	
	3.0HE+	27 30 35 40	WET (IP67)			P1 P2 (Pass through)	BW BRL CON6 CON24	BW BRL CON6 CON24					

Voltage: 24 VDC

Typical lumens at 6.0W/ft with FR lens at 3000K: 781 lm/ft

Max continuous length:

3.0W - 196"
6.0W - 118"

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Static White Individually Addressable

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1IA	5.0		DRY	STD								ST	
	5.0	27 30 35 40	DRY (IP20)	STD Standard	FR PR DF	S1 S2 (Single (Closed exit))	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SP MG	ST	
						P1 P2 (Pass through)	BW CON6 CON24	BW CON6 CON24					

Voltage: 24 VDC

*Available in 4" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Warm Dim

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1WD	6.0			STD									
	6.0	19/27 19/30	DRY (IP20)	STD Standard	FR PR DF	S1 S2 (Single (Closed exit))	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SST MG	ST BK	
			WET (IP67)			P1 P2 (Pass through)	BW BRL CON6 CON24	BW BRL CON6 CON24					

Voltage: 24 VDC

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- If selecting **BRL**, select N/A for wire color and type
- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot
- UL 2108: Type IC recessed inherently protected
- Suitable for installation in drywall

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EMBD-FLAT (01) Linear Fixtures

Dynamic White

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1DW	6.0			STD								ST	

Voltage: 24 VDC

Typical lumens at 6.0W/ft with FR lens at 3000K: 188 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish
6.0	20/27 20/30	DRY (IP20)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SP MG	ST
	24/30	DMP (IP54)									
	20/27 20/30	WET (IP67)			P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Dynamic White High Efficacy

JA8-2019 | NEC 410.2 and 410.16 Closet Rated in 3.0HE | c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1DW				STD								ST	

Voltage: 24 VDC

Typical lumens at 5.0W/ft with FR lens at 3000K: 202 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish
3.0HE 5.0HE	20/27 20/30 27/40 27/55	DRY (IP20)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SP MG	ST
	24/30 27/40	DMP (IP54)									
	20/27 20/30 27/40 27/55	WET (IP67)			P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Static Color

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE | Certified with Red & Amber

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1SC	5.0			STD								ST	

Voltage: 24 VDC

Typical lumens at 5.0W/ft with FR lens in green: 405 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish
5.0	GR BL RD AB	DRY (IP20)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SP MG	ST
		DMP (IP54)									
		WET (IP67)			P1 P2 Pass through	BW BRL CON6 CON24	BW BRL CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- If selecting **BRL**, select N/A for wire color and type
- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in drywall
- Florida Fish and Wildlife Conservation Commission (FWC) rated Strips: DRY and WET rated, Red and Amber
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot
- UL 2108: Type IC recessed inherently protected

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EMBD-FLAT (01) Linear Fixtures

RGB

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1RGB	6.0	RGB		STD								ST	
	6.0	RGB	DRY (IP20) DMP (IP54) WET (IP67)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SP MG	ST	
						P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24					

Voltage: 24 VDC

Typical lumens at 6.0W/ft with FR lens in green: 145 lm/ft

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

RGBW

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1RGBW	6.0			STD								ST	
	6.0	27 30	DRY (IP20) DMP (IP54)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SP MG	ST	
						P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24					

Voltage: 24 VDC

Typical lumens at 6.0W/ft with FR lens at 3000K: 71 lm/ft

*Available in 4" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

RGBW High Efficacy

c UL us LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY | JA8-2019 | RECESSABLE

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/ Output	Connector/ Wire In	Connector/ Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
EB1RGBW	4.0HE			STD								ST	
	4.0HE	27 30 35 40	DRY (IP20) DMP (IP54) WET (IP67)	STD Standard	FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SP MG	ST	
						P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24					

Voltage: 24 VDC

Typical lumens at 4.0W/ft with EB lens at 3000K: 68 lm/ft

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
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- UL 2108: Type IC recessed inherently protected
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EMBD-FLAT (01) Linear Fixtures

Technical Information

Static White [Calculated L70 = 70000 hrs]
Tested with EB1SW-**-30-DRY-STD

	1.5W/FT	3.0W/FT	4.0W/FT	5.0W/FT	6.0W/FT
	LM/FT	LM/FT	LM/FT	LM/FT	LM/FT
FR	124	216	269	327	379
PR	107	186	231	281	326
DF	91	159	198	241	279

Static White High Efficacy
[Calculated L70 = 70000 hrs]
Tested with EB1SW-**-30-DRY-STD

	1.5HEW/FT	3.0HEW/FT	6.0HEW/FT
	LM/FT	LM/FT	LM/FT
FR	160	293	555
PR	138	252	478
DF	118	216	409

Static White High Efficacy Plus
[Calculated L70 = 50000 hrs]
Tested with EB1SW-**-30-DRY-STD

	3.0HE+W/FT	6.0HE+W/FT
	LM/FT	LM/FT
FR	423	781
PR	364	673
DF	311	575

Dynamic White [Calculated L70 = 70000 hrs]
Tested with EB1DW-6.0-**-DRY-STD

	3000K
	LM/FT
FR	188
PR	162
DF	138

Dynamic White High Efficacy [Calculated L70 = 70000 hrs]
Tested with EB1DW-**-30-DRY-STD

	3.0W/FT	5.0W/FT
	LM/FT	LM/FT
FR	128	202
PR	110	174
DF	94	149

Static Color [Calculated L70 = 30000 hrs]
Tested with EB1SC-5.0-**-DRY-STD

	Red	Green	Blue	Amber
	LM/FT	LM/FT	LM/FT	LM/FT
FR	75	405	105	68
PR	64	349	91	58
DF	55	298	77	50

RGB [Calculated L70 = 55000 hrs]
Tested with EB1RGB-6.0-RGB-DRY-STD

	Red	Green	Blue
	LM/FT	LM/FT	LM/FT
FR	72	145	41
PR	62	125	35
DF	53	107	30

RGBW [Calculated L70 = 30000 hrs]
Tested with EB1RGBW-6.0-30-DRY-STD

	Red	Green	Blue	3000K
	LM/FT	LM/FT	LM/FT	LM/FT
FR	27	89	23	71
PR	23	77	20	61
DF	20	66	17	52

RGBW High Efficacy [Calculated L70 = 70000 hrs]
Tested with EB1RGBW-4.0HE-30-DRY-STD

	Red	Green	Blue	3000K
	LM/FT	LM/FT	LM/FT	LM/FT
FR	29	110	24	68
PR	25	95	20	58
DF	21	81	17	50

Temperature Ratings Dependent on LED Strip W/FT

Light Engine (LED Strip)	W/FT	Minimum Limit (°F)	Maximum Limit (°F)
Static White	1.5	-40	138
	3.0	-40	124
	4.0	-40	115
	5.0	-40	108
Static White High-Efficacy	1.5HE	-40	152
	3.0HE	-40	140
	6.0HE	-40	118

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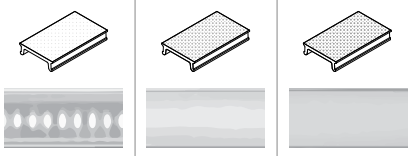
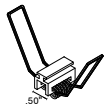
EMBD-FLAT (01) Linear Fixtures

Lens
with LED visibility

FR	PR	DF
		
Frosted	Polar	Diffused

Mounting

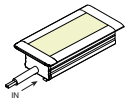
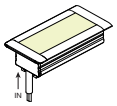
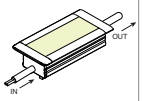
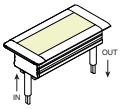
SP	MG
	
Spring clip	Magnet clip
2 clips provided for 4' or less; 4 clips provided for greater than 4'	2 clips provided for 4' or less; 4 clips provided for greater than 4'

Finish

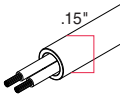
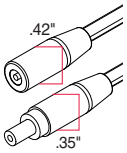
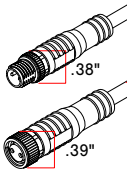
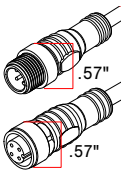
ST
Satin

Type

SINGLE (Input only) | PASS THROUGH (Input/Output)

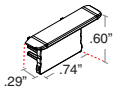
S1	S2	P1	P2
			
End feed	Bottom feed	End feed	Bottom feed

Connector/Wire – In/Out

BW	BRL	CON6 / CON24	
			
Bare Wire 24"	Barrel 6"	SW, SW-HE, SW-HE+, SW-IA, DW, DW-HE, WD, SC	RGB, RGBW, RGBW-HE
		6" or 24" wire connector	

End Caps

Flat end caps



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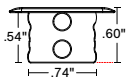
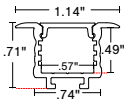
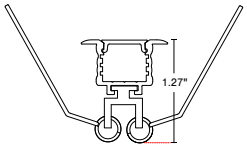


Feed

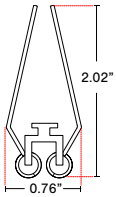
Dimensions



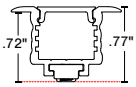
Profile with flat lens



Profile with flat lens spring mounting clip

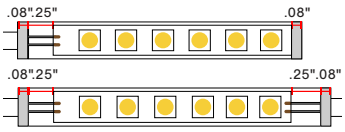


Spring mounting clip



Profile with flat lens magnet mounting clip

Length (in) Add to nominal LED length for fixture length



Endcap#1 | Endcap#2 | Space to solder wire

S1 .08" + .08" + .25" =.41"

P1 .08" + .08" + 2(.25") =.66"

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