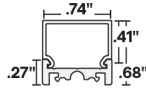
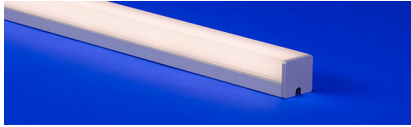




ESSENTIALS TRE3-FLAT (01)

WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface



- Linear fixture designed for surface mount and grid ceiling applications
- Diffused lens
- Three-sided illumination
- Mounting options include hidden stainless steel clip and plastic T-bar 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
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled



410.2 & 410.16
Closet Rated
in 1.5HE



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
				STD	DF									

Sample Part Number: **TR1WD-6.0-19/30-DRY-STD-DF-P1-BW-BW-BK-CL2-HSS-ST-48"-E**

<div>1</div> <div>PRODUCT</div> <div><div>TR1WD</div><div>LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.</div></div> <div><div>TR1DW</div><div>TR1DW-USA</div><div>Select USA option for BAA and BABA projects. Only DRY ratings apply.</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>2</div> <div>WATTS/FT</div> <div><div>6.0</div><div>6.0W/ft</div></div> <div><div>1.5HE</div><div>1.5W/ft HE</div></div> <div><div>2.5HE</div><div>2.5W/ft HE</div></div> <div><div>1.5HE</div><div>1.5W/ft HE</div></div> <div><div>2.5HE</div><div>2.5W/ft HE</div></div>	<div>3</div> <div>CCT</div> <div><div>19/27</div><div>1900K/2700K</div></div> <div><div>19/30</div><div>1900K/3000K</div></div> <div><div>20/27</div><div>2000K/2700K</div></div> <div><div>20/30</div><div>2000K/3000K</div></div> <div><div>27/40</div><div>2700K/4000K</div></div> <div><div>27/55</div><div>2700K/5500K</div></div> <div><div>24/30</div><div>2400K/3000K</div></div> <div><div>27/40</div><div>2700K/4000K</div></div>	<div>4</div> <div>RATED</div> <div><div>DRY</div><div>IP20</div></div> <div><div>DRY</div><div>IP20</div></div> <div><div>DMP</div><div>IP54</div></div>	<div>5</div> <div>EFFICIENCY</div> <div><div>STD</div><div>Standard</div></div>	<div>6</div> <div>LENS</div> <div><div>DF</div><div>Diffused</div></div> <div>For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages</div>
<div>7</div> <div>WIRE INPUT/OUTPUT</div> <div><div>S1</div><div>Single 1 (Input only) - End Feed</div></div> <div><div>S2</div><div>Single 2 (Input only) - Bottom Feed</div></div> <div><div>P1</div><div>Pass Through 1 (Input/output) - End Feed</div></div> <div><div>P2</div><div>Pass Through 2 (Input/output) - Bottom Feed</div></div>	<div>8</div> <div>CONNECTOR/WIRE IN</div> <div><div>BW</div><div>Bare Wire (Standard 24")</div></div> <div><div>BRL</div><div>Barrel</div></div> <div><div>CON6</div><div>Connector 6"</div></div> <div><div>CON24</div><div>Connector 24"</div></div> <div><div>BW</div><div>Bare Wire (Standard 24")</div></div> <div><div>BRL</div><div>Barrel</div></div> <div><div>CON6</div><div>Connector 6"</div></div> <div><div>CON24</div><div>Connector 24"</div></div>	<div>9</div> <div>CONNECTOR/WIRE OUT</div> <div><div>CLS</div><div>Closed End (No feed)</div></div> <div><div>BW</div><div>Bare Wire (Standard 24")</div></div> <div><div>BRL</div><div>Barrel</div></div> <div><div>CON6</div><div>Connector 6"</div></div> <div><div>CON24</div><div>Connector 24"</div></div>	<div>10</div> <div>WIRE COLOR</div> <div><div>WH</div><div>White</div></div> <div><div>BK</div><div>Black</div></div> <div><div>N/A</div><div>For Barrel</div></div> <div>wet barrel only available in black</div>		
<div>For continuous mounting, consider bottom feed</div> <div>When using TBC Mounting, a bare wire S2 wire feed is recommended.</div> <div>See install instructions for details.</div>	<div>BRL only available with TR1WD</div> <div>BW: Standard length is 24". Max length is 120".</div> <div>Request custom length by writing in part number next to BW (example: BW48)</div>	<div>BRL only available with TR1WD</div> <div>BW: Standard length is 24". Max length is 120".</div> <div>Request custom length by writing in part number next to BW (example: BW48)</div>			
<div>11</div> <div>WIRE TYPE</div> <div><div>CL2</div><div>Class 2</div></div> <div><div>CL2P</div><div>Plenum Rated</div></div> <div><div>N/A</div><div>For Barrel</div></div> <div>CL2P only available with bare wire leads (BW)</div>	<div>12</div> <div>MOUNTING</div> <div><div>HSS</div><div>Hidden Stainless Steel Clip</div></div> <div><div>TBC-01</div><div>9/16" Flat or Tegular TB-Grid</div></div> <div><div>TBC-02</div><div>15/16" Flat or Tegular TB-Grid</div></div>	<div>13</div> <div>FINISH</div> <div><div>ST</div><div>Satin</div></div> <div><div>CU</div><div>Custom</div></div> <div>Custom finishes require a longer lead time, consult factory</div>	<div>14</div> <div>LENGTH (IN)</div> <div>Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".</div>	<div>15</div> <div>EXACT/OPTIMAL</div> <div><div>O</div><div>Optimal Illumination</div></div> <div><div>E</div><div>Exact Specified Length</div></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>	

For continuous mounting, consider bottom feed
When using TBC Mounting, a bare wire S2 wire feed is recommended.
See install instructions for details.

BRL only available with TR1WD
BW: Standard length is 24". Max length is 120".
Request custom length by writing in part number next to BW (example: BW48)

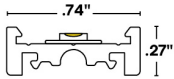
BRL only available with TR1WD
BW: Standard length is 24". Max length is 120".
Request custom length by writing in part number next to BW (example: BW48)



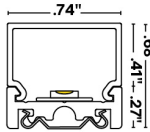
ESSENTIALS TRE3-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

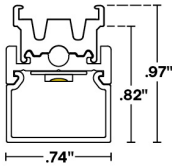
1 PRODUCT - DIMENSIONS



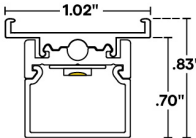
Profile



Profile with hidden stainless steel mounting clip



Profile with TBC-01



Profile with TBC-02

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TR1WD-6.0-30-DRY-STD

	3000K	
	LM/FT	CRI
DF	348	97

[Calculated L70 = 70000 hrs]
Tested with TR1DW-**-30-DRY-STD

	1.5HE W/FT		2.5HE W/FT	
	LM/FT	CRI	LM/FT	CRI
DF	130	98	205	98

6 DIODE VISIBILITY

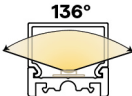


DF - Diffused lens

PHOTOMETRIC PERFORMANCE

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

DF



Diffused 136°

TEMPERATURE RATINGS

		WD 6.0 W/FT		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		QTL power supply other than DALI, DMX	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	115°F	-4°F	145°F	-4°F	135°F	-4°F	135°F	-4°F	120°F
DMP	Ambient Operating Temp - Surface	**	**	-4°F	140°F	-4°F	130°F	-4°F	130°F	-4°F	115°F

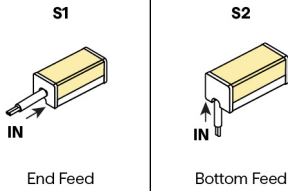


ESSENTIALS TRE3-FLAT (01) WARM DIM APPLICATIONS

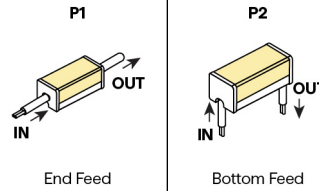
24VDC Linear Fixtures - Surface

7 WIRE INPUT/OUTPUT

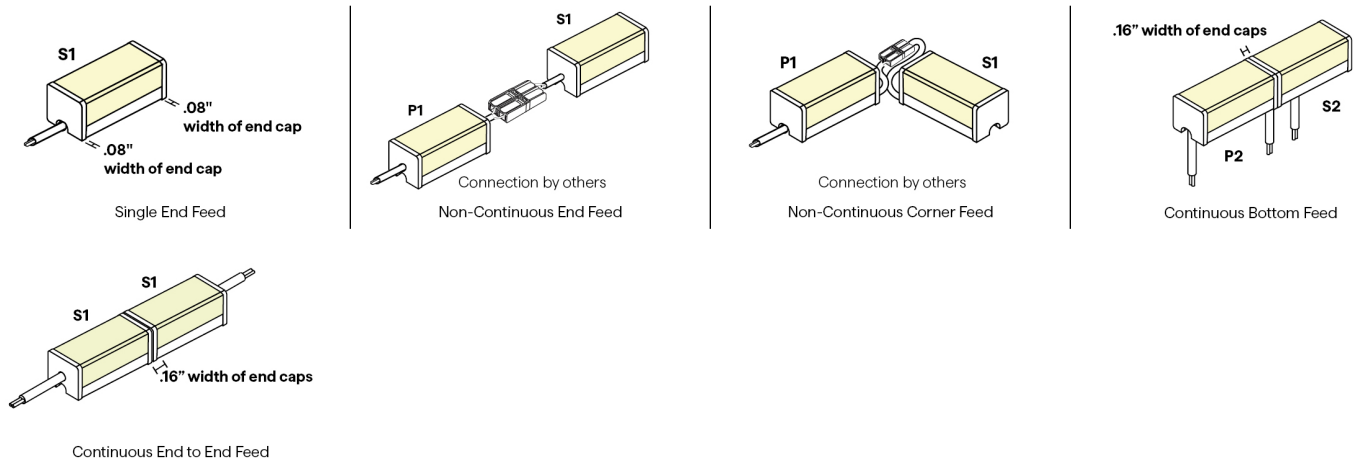
SINGLE (Input only)



PASS THROUGH (Input/Output)

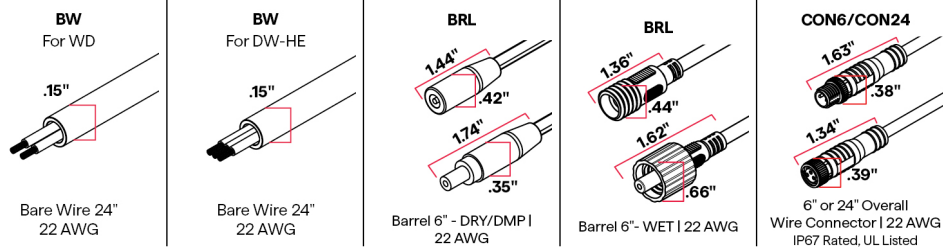


CONFIGURATION OPTIONS



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



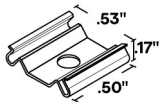


ESSENTIALS TRE3-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

12 MOUNTING

HSS



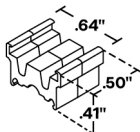
Hidden Stainless Steel Clip

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

To order separately use SST-02

Each clip comes with a #4 x 5/8" Flat Head SS

TBC-01



Plastic T-Bar Clip

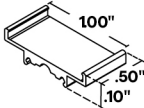
Use on 9/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture.

To order separately use TBC-01

Each pair of clips comes with M2.5 x 4mm

TBC-02



Plastic T-Bar Clip

Use on 15/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture.

To order separately use TBC-02

13 FINISH



Satin

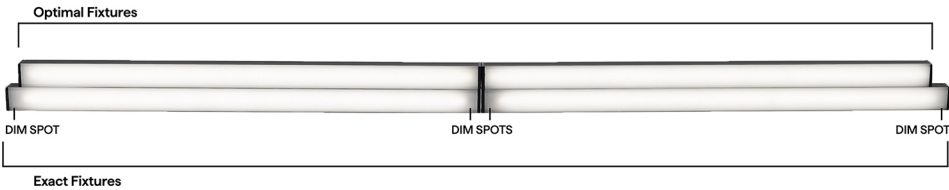
Custom finishes require a longer lead time, consult factory

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.



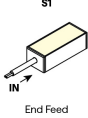


ESSENTIALS TRE3-FLAT (01) WARM DIM APPLICATIONS

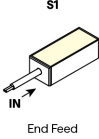
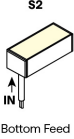
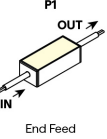
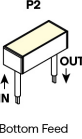
24VDC Linear Fixtures - Surface

WD DRY LENGTHS BY INCH

EXACT LENGTH

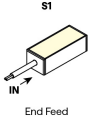
Requested Length	Potential dim spot on either end of a S1 fixture 
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

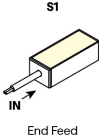
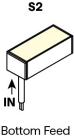
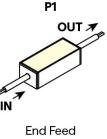
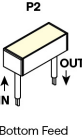
Requested Nominal Length	S1 & S2		P1 & P2	
	 S1 End Feed	 S2 Bottom Feed	 P1 End Feed	 P2 Bottom Feed
12"	10.41"		10.66"	
13"	12.41"		12.66"	
14"	12.41"		12.66"	
15"	14.41"		14.66"	
16"	14.41"		14.66"	
17"	16.41"		16.66"	
18"	16.41"		16.66"	
19"	18.41"		18.66"	
20"	18.41"		18.66"	
21"	20.41"		20.66"	
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"	

DW-HE DRY DMP 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	
	 S1 End Feed	 S2 Bottom Feed	 P1 End Feed	 P2 Bottom Feed
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"	



ESSENTIALS TRE3-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR	
	DW-HE Warm Dim Applications	WD
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
1%	QZ-DALI-DT8	QTM-eLED(E) QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle






DIMMING PROTOCOL	INDOOR	
	DW-HE Warm Dim Applications	WD
Phase	QZ-DW	QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN
ECO System		QTM-eLED(E)
DMX If using DW LED, wattage must be doubled		QZ-DMX
DALI-2: DT6 If using DW LED, wattage must be doubled except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
DALI-2: DT8 If using DW LED, wattage must be doubled 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	
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle



ESSENTIALS TRE3-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE
 1.41" .71"	 1.46" 1.29"	 1.46" 4"	 .75" 1.03"	 2.23" 1.38"
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge	Small mounting accessory	Adjustable mounting accessory