

**Specification Sheet** 

Date

Project Notes

# STREAMLITE™ TUNABLE WHITE24V Diffused Linear Light

Dot-free linear lighting without any visible LEDs. Ideal for tight spaces and simple, impactful installations. Color temperature (CCT) adjustable from 2700K-6500K.

https://www.diodeled.com/streamlite-tape-light









## **FEATURES**

- · Uniform, diffused light appears dotless even without a diffusing lens
- Color temperature (CCT) adjustable from 2700K-6500K
- · Very small size, ideal for tight spaces
- 180° beam angle for even light distribution
- Compatible with channels, and other popular accessories
- · Lowest profile for a diffused linear light



ORDERING CODES Order spools, and components for field assembly					OPTIONAL ORDERING CODES Add Length, Assembly Preferences, and Finish							
Diode LED	Voltage	Model	ССТ	Length		Channels		Finish	Мог	unting	Driver	Delivery
DI												
	24V	STMLT	TW2765 (2700K-6500K)	016 (16.4 feet)	SL (Silm) CA (Canal) S1 (S1) RC20 (20mm Round) SQ20 (20mm Square)	RC10 (10mm Round) SC10 (10mm Square) SQ (Square) 45 (45*) 90 (90* Sideview)	REF (Reflector) MI1 (1-inch Mud-in) MI2 (2-inch Mud-in) REC (Recessed) SLR (Silm Recessed)	AL (Aluminum) WH (White) BL (Black)	3M (3M Adhesive) MC (Mounting Clip) UC (U-Clip)	(Vertical Clip) HNG (Hanging Hardware) RC (Rotating Clip)	ELV (Blectronic) O/O (On / Off) PoE (Power over Ethernet)	Field Assembly Factory + Field (Hybrid) Factory Assembly

## 24V STREAMLITE™ Tunable White - SPECIFICATION TABLE

Models	24V-STMLT			
Voltage	24VDC			
Wattage	3W/ft.			
Lumens 2700K-6500K	2700K: 200 Lm/ft. 3500K: 218 Lm/ft. 6500K: 260 Lm/ft.			
Cut Points	1 in.			
Max Run (ft.)	16.4 ft.			
Max Run (Class 2)	16.4 ft.			
CRI	90+			
Dimensions	0.39 × 0.08 in. (W x H)			
TM-30 (LM-80)	>50,000 hours			
Environment	Indoor / Damp Location (IP20)			
Ambient Temperature	-4 ~ 122°F (-20 ~ 50°C)			
Operating Temperature	-4 ~ 176°F (-20 ~ 80°C)			
LED Chips	213/ft.			
Certification	UL Listed 2108			
Warranty	7 Year			



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MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
Slim Channel DI-CPCHB-SL (SL) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.38 in. Width (W): 0.82 in. Interior Depth (ID): 0.3 in. Interior Width (IW): 0.67 in. IW  H	48 in, channel & lens     2x surface mounting clips     5rd caps: 1x open, 1x closed     96 in. channel & lens     4x surface mounting clips     end caps: 2x open, 2x closed	**     **     **      *      *	With Architectural Frosted Lens STMLT: Dotless	Beam Angle: 120° Architectural Clear Lens - Light Loss: 10% - CCT Shift: -20K Architectural Frosted Lens - Light Loss: 20% - CCT Shift: -45K Classic Frosted Lens - Light Los: 17% - CCT Shift: -40K	Slim Mount: 3M Adhesive: Magnetic U-Clip: 0.59 × 0.82 in. (H x W) 0.96 × 0.82 in. (H x W) 0.96 × 0.82 in. (H x W)
	v			With Premium Diffusion Lens STMLT: Dotless	Black Lens - Light Loss: 90% - CCT Shift: -35K  Premium Diffusion Lens - Light Loss: 10% - CCT Shift: -30K - IP Rating Shift: IP40	
Canal Channel DI-CPCHB-CAN (CA) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.59 in. Width (W): 0.69 in. Width (W): 0.69 in. Interior Depth (ii): 0.54 in. Interior Width (IW): 0.61 in.  H  IW  IV	48 in. channel & opal lens 2x surface mounting clips End caps: 1x open, 1x closed.  96 in. channel & opal lens 4x surface mounting clips End caps: 2x open, 2x closed.	8mm Terminal Block     Soldered Lead	With Opal Lens STMLT: Dotless	Beam Angle: 120°  Opal Lens     - Light Loss: 55%     - CCT Shift:      IP Rating Shift: IP40	U-Clip: 0.6 × 0.7 in. (H x W)
S1 Channel DI-CHB-S1 (S1) 48",96",90" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.31 in. Width (W): 0.67 in. Interior Width (W): 0.58 in.	48 in. channel & frosted cover 2x surface mounting clips End caps: 1x open, 1x closed.  90 in. channel & frosted cover 4x surface mounting clips End caps: 2x open, 2x closed.	*8mm Terminal Block     * Soldered Lead	With Classic Frosted Lens STMLT: Dotless	Beam Angle: 120° Classic Frosted Lens Light Loss: 17% CGT Shift: 40K IP Rating Shift: IP40	U-Clip: 0.32 × 0.68 in. (H x W)
20mm Round Channel DI-CPCHB-RC20 (RC20) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 118 in. Width (W): 138 in. Interior Width (IW): 0.84 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed. 96 in. channel & frosted lens 4x surface mounting clips End caps: 2x open, 2x closed.	8mm Terminal Block     Soldered Lead	With Classic Frosted Lens STMLT: Dotless	Beam Angle: 180° Classic Frosted Lens     Light Loss: 17%     CCT Shift: -40K     IP Rating Shift: IP40	U-Clip: 1.19 × 1.19 in. (H x W)



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MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
20mm Square Channel DI-CPCHB-SQC20 (SQ20) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 1.18 in. Width (W): 1.18 in. interior Width (W): 0.84 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed. 96 in. channel & frosted lens 4x surface mounting clips End caps: 2x open, 2x closed.	* * * * * * * * * * * * * * * * *	With Classic Frosted Lens STMLT: Dotless	- Beam Angle: 180° Classic Frosted Lens - Light Loss: 17% - CCT Shift: -40K - IP Rating Shift: IP40	U-Clip: 119 × 1.19 in. (H x W)
10mm Round Channel DI-CPCHB-RC10 (RC10) 48", 96" Aluminum For 8mm Tape Lights or smaller	Height (H): 0.63 in. Width (W): 0.63 in. interior Width (W): 0.39 in.	48 in. channel & frosted cover Mounting hardware End caps: 1x open, 1x closed. 96 in. channel & frosted cover Mounting hardware End caps: 2x open, 2x closed.	8mm Terminal Block     Soldered Lead	With Classic Frosted Lens STMLT: Dotless	Beam Angle: 180° Classic Frosted Lens Light Loss: 17% CCT Shift: -40K IP Rating Shift: IP40	U-Cilip: 0.84 × 0.84 in. (H x W)
10mm Square Channel DI-CPCHB-SQC10 (SQ10) 48", 96" Aluminum For 8mm Tape Lights or smaller	Height (H): 0.63 in. Width (W): 0.63 in. Interior Width (IW): 0.39 in.	48 in. channel & frosted cover Mounting hardware End caps: 1x open, 1x closed. 96 in. channel & frostedcover Mounting hardware End caps: 2x open, 2x closed.	8mm Terminal Block     Soldered Lead	With Classic Frosted Lens STMLT: Dotless	Beam Angle: 180° Classic Frosted Lens     Light Loss: 17%     CCT Shift: -40K      IP Rating Shift: IP40	U-Clip: 0.64 × 0.64 in. (H x W)
Square Channel DI-CPCHB-SQ (SQ) 48", 96" Alluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.55 in. Width (W): 0.82 in. Interior Depth (ID): 0.27 in. Interior Width (IW): 0.67 in. IW  W	48 in .channel & clear, or frosted lens     48 surface mounted clips     2x End-to-end interconnects     98 in .channel & clear, or frosted lens     8x surface mounted clips     4x End-to-end interconnects	8mm Terminal Block     Soldered Lead	With Architectural Frosted Lens STMLT: Dotless  With Premium Diffusion Lens STMLT: Dotless	Beam Angle: 120°  Architectural Clear Lens Light Loss: 10% COT Shift: 20K  Architectural Frosted Lens Light Loss: 20% COT Shift: 45K  Classic Frosted Lens Light Loss: 17% COT Shift: 40K  Premium Diffusion Lens Light Loss: 17% COT Shift: 30K  I Light Loss: 17% COT Shift: 30K  I Light Loss: 17%  COT Shift: 30K  I Light Loss: 17%  I Lig	Chromapath Surface Mount: 0.61 × 0.82 in. (H x W)  Premium Diffusion: 1.33 × 0.82 in. (H x W)  Premium Diffusion: 1.33 × 0.82 in. (H x W)



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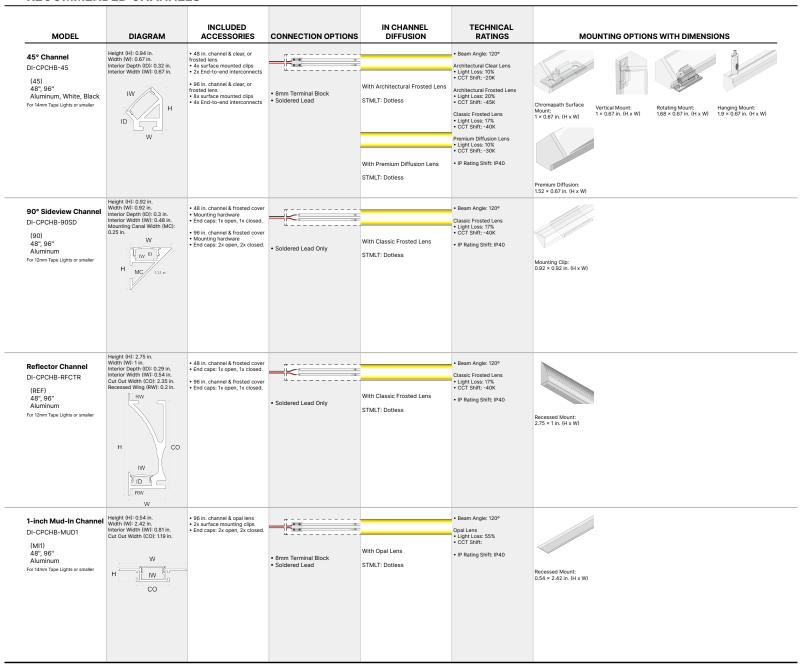














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MODEL  2-inch Mud-In Channel DI-CPCHB-MUD2 (MI2) 48", 96" Aluminum For 14mm Tape Lights or smaller	DIAGRAM  Height (H): 0.8 in. Width (W): 3.86 in. Interior Width (W): 1.84 in. Cut Out Width (W): 1.97 in.  W  11  12  13  14  15  17  17  18  18  18  19  19  19  10  10  10  10  10  10  10	INCLUDED ACCESSORIES  96 in. channel & opal lens 2x surface mounting clips End caps: 2x open, 2x closed.	CONNECTION OPTIONS      **Bmm Terminal Block**     **Soldered Lead**	IN CHANNEL DIFFUSION  With Opal Lens STMLT: Dotless	TECHNICAL RATINGS  * Beam Angle: 120° Opal Lens • Light Loss: 55% • CCT Shift: • IP Rating Shift: IP40	Recessed Mount: 0.8 × 3.86 in. (H x W)
Recessed Channel DI-CPCHB-REC (REC) (REC) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.49 in, Width (W): 1.03 in, Interior Depth (ID): 0.42 in, Interior Width (W): 0.59 in, Cut Use Width (CO): 0.74 in, Recessed Wing (RW): 0.15 in.	48 in. channel & frosted lens     2x surface mounted clips     end caps: Ix open, Ix closed     96 in. channel & frosted lens     4x surface mounted clips     end caps: 2x open, 2x closed.	8mm Terminal Block     Soldered Lead	With Classic Frosted Lens STMLT: Dotless	Beam Angle: 120° Classic Frosted Lens Light Loss: 17%     CCT Shift: -40K      IP Rating Shift: IP40	3M Adhesive: Recessed Mount: 0.59 × 1.03 in. (H x W) 0.49 × 1.03 in. (H x W)
Slim Recessed Channel DI-CPCHB-SLR (SLR) 45", 96" Aluminum For 10mm Tape Lights or smaller	Height (H): 0.38 in, Width (W): 0.65 in, Interior Width (W): 0.43 in, Cut Out Width (CO): 0.49 in, Recessed Wing (RW): 0.08 in.  W  RW  IW  H	48 in. channel & frosted lens     • End caps: Ix open square, Ix open round, Ix closed square     • 86 in. channel & frosted lens     • End caps: Ix open square, Ix open round, Ix closed square.	• Soldered Lead Only	With Classic Frosted Lens STMLT: Dotless	Beam Angle: 120° Classic Frosted Lens     Light Loss: 17%     CCT Shift: -40K     IP Rating Shift: IP40	Recessed Mount: 0.38 × 0.65 in. (H x W)



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## **RECOMMENDED 24V DRIVERS**

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT	DERATION
	stant Voltage Driver PWM dimming application	ns.		https://www.d	iodeled.com/custom	/download/productFile/filena	me/commercial-gra	ade-CV-Driver-Spe	cification%20Shee	et%20(24V%20Models).pdf/
DI-CV-MW24V60W-277	120 ~ 277VAC 50/60Hz	24V	60W	No minimum load	Yes	res, with compatible PWM dimmer/controls	5.9 in.	2.1 in.	1.4 in.	See Driver Specification Sheet for Deration Curves.
DI-CV-MW24V60W-277	120 ~ 277VAC 50/60Hz	24V	60W	No minimum load	Yes	compatible PWM	11.25 in.	3.75 in.	1.9 in.	See Driver Specification Sheet for Deration Curves.
DI-CV-MW24V60W-277	120 ~ 277VAC 50/60Hz	24V	60W	No minimum load	Yes	compatible PWM	10.79 in.	7.34 in.	2.36 in.	See Driver Specification Sheet for Deration Curves.
DI-CV-MW24V90W-277	120 ~ 277VAC 50/60Hz	24V	90W	No minimum load	Yes	compatible PWM	6.8 in.	2.5 in.	1.5 in.	See Driver Specification Sheet for Deration Curves.
DI-CV-MW24V90W-277	120 ~ 277VAC 50/60Hz	24V	90W	No minimum load	Yes	compatible PWM	13.5 in.	4.5 in.	2.38 in.	See Driver Specification Sheet for Deration Curves.
DI-CV-MW24V90W-277	120 ~ 277VAC 50/60Hz	24V	90W	No minimum load	Yes	compatible PWM	10.79 in.	7.34 in.	2.36 in.	See Driver Specification Sheet for Deration Curves.
DI-0904	90 ~ 264VAC 47 ~ 63Hz	12V	20W	No minimum load	Yes	dimmers/controls &	4.65 in.	1.38 in.	1.2 in.	See Driver Specification Sheet for Deration Curves.
DI-0904-LPS	90 ~ 264VAC 47 ~ 63Hz	12V	20W	No minimum load	Yes	dimmers/controls &	11.25 in.	3.75 in.	1.9 in.	See Driver Specification Sheet for Deration Curves.
DI-0904-LPS3R	90 ~ 264VAC 47 ~ 63Hz	12V	20W	No minimum load	Yes	dimmers/controls &	10.79 in.	7.34 in.	2.36 in.	See Driver Specification Sheet for Deration Curves.
DI-0906	90 ~ 264VAC 47 ~ 63Hz	12V	60W	No minimum load	Yes	dimmers/controls &	6.4 in.	1.67 in.	1.26 in.	See Driver Specification Sheet for Deration Curves.
DI-0906-LPS	90 ~ 264VAC 47 ~ 63Hz	12V	60W	No minimum load	Yes	dimmers/controls &	11.25 in.	3.75 in.	1.9 in.	See Driver Specification Sheet for Deration Curves.
DI-0906-LPS3R	90 ~ 264VAC 47 ~ 63Hz	12V	60W	No minimum load	Yes	dimmers/controls &	10.79 in.	7.34 in.	2.36 in.	See Driver Specification Sheet for Deration Curves.
DI-0908	85 ~ 264VAC 47 ~ 63Hz	12V	150W	No minimum load	No	On/Off Switching Only	8.3 in.	3.9 in.	2 in.	See Driver Specification Sheet for Deration Curves.
DI-0909	85 ~ 264VAC 50/60Hz	12V	200W	No minimum load	No	On/Off Switching Only	8.3 in.	3.9 in.	2 in.	See Driver Specification Sheet for Deration Curves.

PoE (Power over Ethernet)

Constant voltage platform, ready for Power over Ethernet (inquire)

RECOMMENDED CONTROLLERS							
SKU	DESCRIPTION						
Nicolaudie DMX LED Controllers Store up to 500 scenes across 10 separate zo	ones with a full-color display.						
DI-DMX-DE3	Loading						
DI-DMX-ESA	Loading						
CASAMBI® Controllers The CASAMBI controllers will remotely controllers & Android.	ol your lighting through the app - downloadable fo						
CBU-A2D	CASAMBI A2D 2 Channel 0-10V/DALI Controller						
CBU-ASR	CASAMBI ASR 0-10V Controller						
CBU-PWM4	CASAMBI PWM4 Single Color Dimming Controller						
CBU-TED	CASAMBI TED AC High Voltage Controller						





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### **ACCESSORIES**

### Soldered Lead Only



### **DELIVERY OPTIONS**

#### Field Assembly

Stock items for in-field assembly. Fastest order fulfillment.

### Factory + Field (Hybrid)

Finished lengths of light with leads. CHANNELS either bulk or factory finished. Some field assembly required.

#### Factory Assembly

Fastest installation: fixtures fully assembled in the factory.

- · Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run
- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment.



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#### **CERTIFICATIONS**

#### Safety

- UL Listed 2108 Flexible Lighting Systems. Certified for United States and Canada. File # E469769.
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

#### **Environmental**

RoHS Compliant: Verification No. CANEC1610091501

#### **Performance**

- Can be used to comply with TITLE 24 Part 6 High Efficacy Lighting LED requirements JA8-2016-2022-E
- . Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

## Safety / Warnings / Disclosures

- Install in accordance with national and local electrical code regulations
- This product is intended to be installed and serviced by a qualified, licensed electrician
- Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of
- 4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 5. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
- Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, 6. factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- 8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient
- Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
- 10. Do not modify product beyond instructions or warranty will be void.
- 11. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- 12. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to 13. match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

### **WARRANTY**

## **Limited Warranty**

• 7 Years

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled. com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

#### **Consumer's Acknowledgment**

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.