

Specification Sheet

STREAMLITE™ Colors Wet Location 24V Diffused Linear Light

Solid-color, dot-free linear lighting without any visible LEDs. Ideal for tight spaces and simple, impactful installations.

Project Notes

https://www.diodeled.com/streamlite-3013.htm











FEATURES

- · Uniform, diffused light appears dotless even without a diffusing lens
- · Very small size, ideal for tight spaces
- 180° beam angle for even light distribution
- Compatible with Terminal Block Connectors, channels, and other popular



OR	DFI	RIN	G C	OD	FS

OPTIONAL ORDERING CODES

Order spools, and components for field assembly Add Length, Assembly Preferences, and Finish

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	Voltage	Model	ССТ	Length	Ch	annels	Finish	Мо	unting	Driver	Delivery
DI											
	24V	STMLT	GN (Green) RD (Red)	W016 (16.4 feet)	\$2 (\$2) \$45 (\$45) \$L (\$lim) CA (Canal)	16 (16mm Square) RC20 (20mm Round) SQ20 (20mm Square) SQ (Square)	AL (Aluminum) BL (Black) WH (White)	3M (3M Adhesive) MC (Mounting Clip) UC (U-Clip)	VC (Vertical Clip) HNG (Hanging Hardware) RC (Rotating Clip)	ELV (Electronic) VLM (Constant Voltage) O/O (On / Off) PoE (Power over Ethernet)	Field Assembly Factory + Field (Hybrid) Factory Assembly

24V STREAMLITE™ Colors Wet Location - SPECIFICATION TABLE

	112 001013 WCC 200
Models	24V-STMLT-W
Voltage	24VDC
Wattage	3.3W/ft.
Lumens Green	236 Lm/ft.
Red	42 Lm/ft.
Cut Points	2.5 in.
Max Run (ft.)	20 ft.
Max Run (Class 2)	20 ft.
Dimensions	0.4 × 0.16 in. (W x H)
TM-30 (LM-80)	>50,000 hours
Environment	Outdoor / Wet Location (IP65)
Ambient Temperature	-4 ~ 122°F (-20 ~ 50°C)
Operating Temperature	-4 ~ 176°F (-20 ~ 80°C)
LED Chips	176/ft.
Certification	UL Listed 2108
Warranty	7 Year



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RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
S2 Channel DI-CHB-S2 (S2) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.57 in. Width (W): 0.74 in. Width (W): 0.74 in. Interior Depth (ID): 0.34 in. Interior Width (IW): 0.63 in. W ID IW	48 in. Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws Se in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	14mm Wet Location Tape Light: Soldered Lead Only	Classic Frosted Lens STMLT: Dotless	Beam Angle: 120° Classic Frosted Lens Light Loss: 20% CCT Shift: 40K IP Rating Shift: IP40	U-Clip: 0.58 × 0.75 in. (H × W)
S45 Channel DI-CHB-S45 (S45) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.78 in. Width (W): 0.78 in. Interior Depth (ID): 0.54 in. Interior Width (IW): 0.6 in. INTERIOR WIDTH (IW): 0.6 in.	48 in. Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws 96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	ш	Classic Frosted Lens STMLT: Dotless	Beam Angle: 120° Classic Frosted Lens Light Loss: 20% CCT Shift: 40K IP Rating Shift: IP40	U-Clip: 0.79 × 0.79 in. (H x W)
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 (I0): 0.3 in. Interior Width (IW): 0.67 in. IW H	49" Aluminum, Black, & White Channels - 48 in. channel & Iens - 48 in. channel & Iens - 2x surface mounting clips - 5x de channel & Iens - 2x surface mounting clips - 5x de channel & Iens - 96" Aluminum, Black, & White Channels - 96 in. channel & Iens - 4x surface mounting clips - end caps: 2x open, 2x closed	14mm Wet Location Tape Light: Soldered Lead Only	Architectural Frosted Lens STMLT: Dotless Premium Diffusion Lens STMLT: Dotless For diffusion options not listed, refer to Slim Channel Specification Sheet.	Beam Angle: 120° Architectural Cilear Lens - Light Loss: 10% - CCT Shift: -20K Architectural Frosted Lens - Light Loss: 20% - CCT Shift: -35K Classic Frosted Lens - Light Loss: 20% - CCT Shift: -40K Black Lens - Light Loss: 90% - CCT Shift: -50K Premium Diffusion Lens - Light Loss: 10% - CCT Shift: -30K - CT Shift: -30K	Slim Mount: 3M Adhesive: Magnetic U-Clip: Premium Diffusion: 0.54 × 0.87 in. (H x W) 0.48 × 0.82 in. (H x W) 0.59 × 0.82 in. (H x W) 0.96 × 0.82 in. (H x W)
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 IW ID	48" Aluminum, Black, & White Channels 48 in. channel & opal lens • 2x surface mounting clips • 2rd caper, 1x closed. 96" Aluminum, Black, & White Channels • 96 in. channel & opal lens • 4x surface mounting clips • End caps: 2x open, 2x closed.	14mm Wet Location Tape Light: Soldered Lead Only	Opal Lens STMLT: Dotless	Beam Angle: 120° Opal Lens - Light Loss: 55% - CCT Shift: 200K IP Rating Shift: IP40	U-Clip: 0.6 × 0.7 in. (H × W)



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16mm Square Channel DI-CPCHB-16MM (16) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.89 in. Width (W): 0.77 in. Interior Width (IW): 0.63 in. IW W	48 in. channel & Architectural Frosted Lens 2x surface mounting clips End caps: 1x open, 1x closed. 96 in. channel & Architectural Frosted Lendens 4x surface mounting clips End caps: 2x open, 2x closed.	14mm Wet Location Tape Light: Soldered Lead Only	Architectural Frosted Lens STMLT: Dotless	Beam Angle: 120° Architectural Frosted Lens Light Loss: 20% CCT Shift: 35K Black Lens Light Lens: 90% CCT Shift: 350K IP Rating Shift: IP40	Mounting Clip: 0.89 × 0.77 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): 118 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.	14mm Wet Location Tape Light: Soldered Lead Only	Classic Frosted Lens STMLT: Dottess	Beam Angle: 180° Classic Frosted Lens Light Loss: 20% CCT Shift: -40K IP Rating Shift: IP40	U-Clip: 1.19 × 1.19 in. (H x W)
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. IW W	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.	14mm Wet Location Tape Light: Soldered Lead Only	Classic Frosted Lens STMLT: Dotless	Beam Angle: 180° Classic Frosted Lens Light Loss: 20% CCT Shift: -40K IP Rating Shift: IP40	U-Clip: 1.19 × 1.19 in. (H x W)
Square Channel DI-CPCHB-SQ (SQ) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.55 in. Width (W): 0.82 in. Width (W): 0.82 in. Interior Depth (ID): 0.27 in. INV 0.67 in. IVV	48" Aluminum Channel 48" Aluminum Channel 48 in. channel & frosted cover Mounting hardware End cags: X oppen, 1x closed. 48" Black & White Channels 48 in. channel & clear, or frosted lens 4x surface mounted clips 2x End-to-end interconnects 96" Aluminum Channel 96" Aluminum Channel 96" Aluminum Channel 96" Aluminum Channel 96" Black & White Channels 96" Black & White Channels 4x surface mounted clips 4x surface mounted clips 4x surface mounted clips 2x End-to-end interconnects	14mm Wet Location Tape Light: Soldered Lead Only	Architectural Frosted Lens STMLT: Dottess Premium Diffusion Lens STMLT: Dottess For diffusion options not listed, refer to Square Channel Specification Sheet.	- Beam Angle: 120° Architectural Clear Lens - Light Less: 10% - CCT Shift: -20K - CCT Shift: -20K - CCT Shift: -35K - COT Shift: -35K - Classic Frosted Lens - Light Loss: 20% - CCT Shift: -40K - Black Lens - Light Loss: 90% - CCT Shift: -350K - CT Shift: -350K - CT Shift: -350K - CCT Shift: -350K - CCT Shift: -350K - CCT Shift: -30% - CCT Shift: -30K - CCT Shift: -30K	Chromapath Surface



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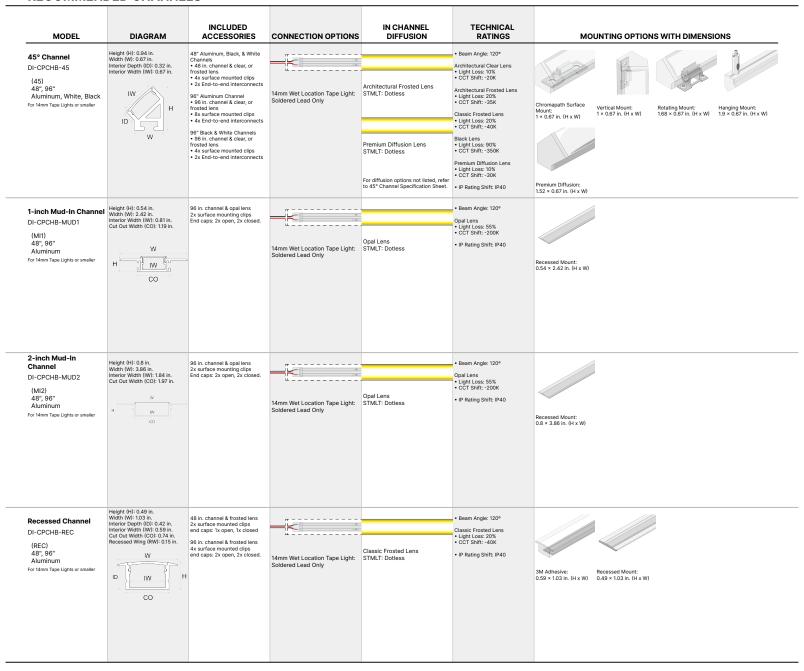








RECOMMENDED CHANNELS





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RECOMMENDED 24V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
OMNIDRIVE® X Dimma	hle Driver								r Specification Sheet
	-performance dimming on ELV, TRIA	C and 0-10V			https://www.diodelei	d.com/custom/download/p	roductFile/filename	omnidrive-x-sp/ Conta	
systems.	-performance dimining on ELV, TRIA	C, and 0-10V						onal Models	Derating Curves System Diagrams
DI-ODX-24V30W-J	120-277V	24V	30W	No minimum load	Yes	Yes	6.5 in.	3.7 in.	1.36 in.
DI-ODX-24V60W-J	120-277V	24V	60W	No minimum load	Yes	Yes	7.4 in.	3.7 in.	1.36 in.
DI-ODX-24V96W-J	120-277V	24V	96W	No minimum load	Yes	Yes	8.66 in.	3.7 in.	1.36 in.
DI-ODX-24V120W-J	120-277V	24V	120W	No minimum load	No	Yes	8.66 in.	3.7 in.	1.36 in.
VLM Series Constant Compact driver for on/off, PW	Voltage Driver /M dimming, and color-changing app	olications.		https://www.diodeled.	com/custom/download	l/productFile/filename/VLM	1-Specification%209	Sheet%20(Driver	
									Derating Curves System Diagrams
VLM60W-24-LPS3R	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	10.79 in.	7.34 in.	2.36 in.
VLM60W-24-LPM	120 / 277VAC 47 - 63Hz	24V	60W	No Minimum Load	Yes	PWM	8.19 in.	2.94 in.	1.31 in.
VLM100W-24-LPS3R	120 / 277VAC 47 - 63Hz	24V	100W	No Minimum Load	Yes	PWM	10.79 in.	7.34 in.	2.36 in.
MEANWELL Constant	Voltage Driver		https://www.	diodeled.com/custom/down	nload/productFile/filena			-	r Specification Sheet
Drivers for on/off or PWM dim	nming applications.		110,000,7111111			, san grado or		Conta	
									Derating Curves System Diagrams
DI-CV-MW24V60W-277-LPS3R	120 ~ 277VAC 50/60Hz	24V	60W	No minimum load	Yes	Yes, with compatible PWM dimmer/controls	10.79 in.	7.34 in.	2.36 in.
DI-CV-MW24V60W-277-LPS	120 ~ 277VAC 50/60Hz	24V	60W	No minimum load	Yes	Yes, with compatible PWM dimmer/controls	11.25 in.	3.75 in.	1.9 in.

PoE (Power over Ethernet)

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

RECOMMENDED CONTROLLERS						
SKU	DESCRIPTION					
CASAMBI® Controllers The CASAMBI controllers will remotely control your lighting through the app - downloadable for IOS & Android.						
CBU-PWM4	CASAMBI PWM4 Single Color Dimming Controller					
CBU-A2D	CASAMBI A2D 2 Channel 0-10V/DALI Controller					
CBU-ASR	CASAMBI ASR 0-10V Controller					
U-TED CASAMBI TED AC High Voltage Controller						
SWITCHEX® Driver and Dimmer Switch LED driver and dimmer switch combined in a si	ingle gang box.					
DI-24V-SE-60W	SWITCHEX 24V Switch/Driver Combo - 60W					
DI-24V-SE-100W SWITCHEX 24V Switch/Driver Combo -						





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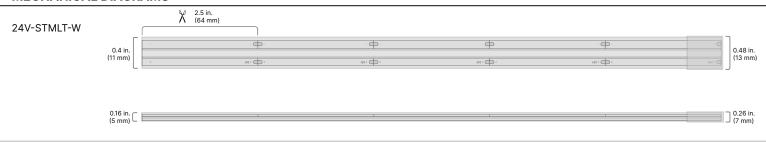








MECHANICAL DIAGRAMS



CONNECTIONS



36 in. Bare Lead 20/2 AWG UL 2464 Wire with Strain Relief

36 in. Bare Lead 20/2 AWG UL 2464 Wire with Strain Relief



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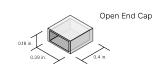


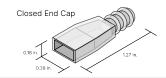
ACCESSORIES





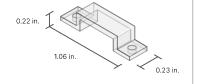
8mm Wet Location Strip Light End Caps





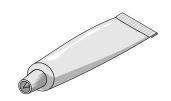
DI-0754

Wet Location Strip Light Mounting Clip



DI-WPSL

Wet Location 3M Sealant



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.

- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- 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.
- 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.
- 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.
- 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.
- UL Listed Field Cuttable
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

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
- 2. 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 electrical equipment.
- 4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 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.
- 7. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
- Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- 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.
- 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 Year limited warranty

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.