

BLAZE™ 12V LED TAPE LIGHT

SPECIFICATION SHEET

- High Brightness – Dimmable Task or Fill Lighting
- Excellent Color Rendering Index (80+ CRI)
- Field cuttable ETL Listing
- 5-Year Limited Warranty

Specified Item #	
Project	
Location	



Conforms to ANSI/UL Standard 2108
Certified to CAN/CSA Standard C22.2 No. 250.0



SPECIFICATIONS

Input Voltage	12VDC constant voltage
LED Chip Type	Epistar 3528 SMD chip
LED Chip Beam Angle	120°
LED Chip Spacing	0.3 in. between centers
Mounting	3M™ adhesive
Field Cuttable	Every 1 in.
Connections ¹	1 ft. female DC plug one end. 3 ft. lead wires opposing end. Lead wire: 20/2 AWG

Dimmable	Yes
Ambient Temperature ²	-4° ~ 122°F (-20° ~ 50°C)
Operating Temperature ³	-4° ~ 176°F (-20° ~ 80°C)
Environment ⁴	Indoor / dry location
Dimensions	0.3 x 0.1 in. (W x H)
Warranty	5 years
Certifications	ETL Listed: 4001928. Conforms to ANSI/UL Std 2108. Certified to CAN/CSA Std C22.2 No. 250.0. RoHS compliant.

Item #	Length	Max Run ⁴	Power Consumption / ft.	CCT ⁶ (Kelvin)	Lumens / ft. ⁷	Efficacy / ft. (lm/W)	CRI	Chips / ft.
DI-12V-BL24-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	2400K	200	69.44	80+	36
DI-12V-BL24-80100	100 ft.	16.4 ft.	2.88W / 240mA	2400K	200	69.44	80+	36
DI-12V-BL27-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	2700K	200	69.44	80+	36
DI-12V-BL27-80100	100 ft.	16.4 ft.	2.88W / 240mA	2700K	200	69.44	80+	36
DI-12V-BL30-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	3000K	200	69.44	80+	36
DI-12V-BL30-80100	100 ft.	16.4 ft.	2.88W / 240mA	3000K	200	69.44	80+	36
DI-12V-BL33-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	3300K	200	69.44	80+	36
DI-12V-BL33-80100	100 ft.	16.4 ft.	2.88W / 240mA	3300K	200	69.44	80+	36
DI-12V-BL38-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	3800K	200	69.44	80+	36
DI-12V-BL38-80100	100 ft.	16.4 ft.	2.88W / 240mA	3800K	200	69.44	80+	36
DI-12V-BL42-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	4200K	200	69.44	80+	36
DI-12V-BL42-80100	100 ft.	16.4 ft.	2.88W / 240mA	4200K	200	69.44	80+	36
DI-12V-BL50-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	5000K	200	69.44	80+	36
DI-12V-BL50-80100	100 ft.	16.4 ft.	2.88W / 240mA	5000K	200	69.44	80+	36
DI-12V-BL63-8016	16.4 ft.	16.4 ft.	2.88W / 240mA	6300K	200	69.44	80+	36
DI-12V-BL63-80100	100 ft.	16.4 ft.	2.88W / 240mA	6300K	200	69.44	80+	36
DI-12V-0140	16.4 ft.	16.4 ft.	2.88W / 240mA	Red / 625nm	77	26.74	N/A	36
DI-12V-0141	16.4 ft.	16.4 ft.	2.88W / 240mA	Green / 525nm	126	43.75	N/A	36
DI-12V-0142	16.4 ft.	16.4 ft.	2.88W / 240mA	Blue / 465nm	36	12.5	N/A	36

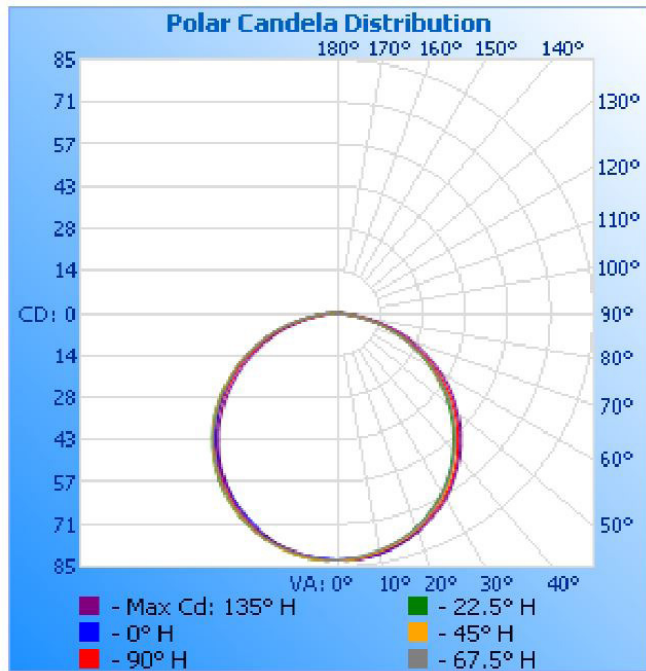
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SPECIFICATIONS CONT'D

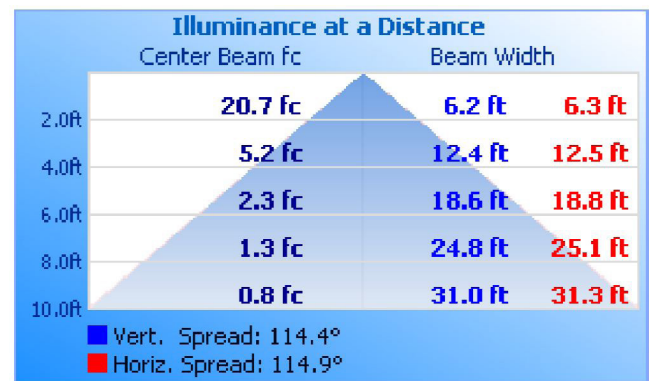
- Note**¹ Ensure wire leads at opposing ends of the tape light are not crossed when power is applied to the fixture. It is acceptable to modify the length of the leads or cut off the attached leads and DC connections in the field.
- Note**² Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum ambient temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Note**³ Operating temperature is measured according to the minimum and maximum ambient temperature environment.
- Note**⁴ Do not install in direct sunlight.
- Note**⁵ Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- Note**⁶ Epistar 3528 SMD Chip binning ranges: (2700k 80 CRI: 2580-2725k), (3000k 80 CRI: 2870-3045k), (4200k 80 CRI: 3985-4260k), (5000k 80 CRI: 5000-5500k).
- Note**⁷ LED chips have a luminous flux range with a tolerance of +/- 5%. In other words, lumen output may vary +/- 5%.

PHOTOMETRICS*

Polar Candela Distribution



Illuminance at Distance

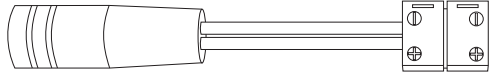

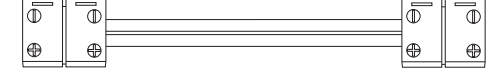
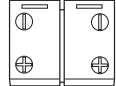


Mounting Height: 10 ft.

* Photometric data complies with LM-79-08. Data measured with a 1 ft., 2400k fixture.

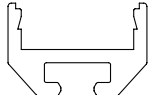
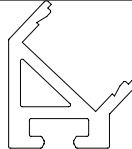
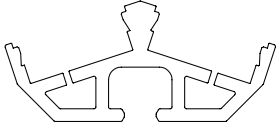

ACCESSORIES

CLICKTIGHT™ Tape Light Connectors

CLICKTIGHT™ Model*	Description	
Standard DC Plug Connector	Attaches tape light directly to plug-in adapter / DC plug accessory.	
Standard Splice Connection	Attaches tape light directly to a hard-wired driver / low voltage control.	
Standard Flexible Extension	Attaches two sections of tape light together. Wire lead allows for turns around tight corners.	
Standard Tape Link	Attaches two sections of tape light together.	

* See the 'CLICKTIGHT Tape Light Connector' product page/specification sheet for item #'s and various length options. All CLICKTIGHT accessories have a Class 2 amp rating: 60W/5A @ 12VDC; 96W/4A @ 24VDC. BLAZE & ULTRA BLAZE tape light require unique installation instructions when installing CLICKTIGHT accessories. Please see the 'Solid Color Tape Light Installation Guide' for additional information.

CHROMAPATH™ Aluminum Channels

CHROMAPATH™ Model*	Description	
SQUARE Aluminum Channel	Field-cutttable, SQUARE aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	
45° Aluminum Channel	Field-cutttable, 45° aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	
DUO Aluminum Channel	Field-cutttable, DUO aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	
SLIM Aluminum Channel	Field-cutttable, SLIM aluminum tape light enclosure with a matte anodized finish. Available in 4 ft. (48 in.) lengths.	

*See the 'CHROMAPATH Aluminum Channels' product page for item #'s and additional accessory options.

SWITCHES, CONTROLS, LED DRIVERS, & SYSTEM DIAGRAMS

We offer a variety of switches, controls, and LED drivers (power supplies) to address all common light installations. For additional information, please see the additional component sections of our website or catalog. See the 'Solid Color Tape Light Installation Guide' for system diagrams and installation instructions. For additional questions and concerns please contact technical support.

SAFETY / WARNINGS / DISCLOSURES

- Install in accordance with the National Electric Code and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- This product requires a compatible LED driver for proper configuration. Do not connect directly to high voltage 120~277V AC power.
- The ETL Listing of this product requires the fixture to be powered with a compatible Class 2 DC constant voltage LED driver (power supply).
- It is generally recommended to load the driver no more than 80% the labeled rating for maximum performance and longevity. However, see each driver specification sheet for exact minimum and maximum loading values.
- Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment. Exceeding the maximum operating temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Do not power tape light on the plastic spool or when tightly coiled. Excess heat may melt the spool and/or cause damage to the product.
- Ensure adequate airflow and heatsinking is considered when mounting/installing. Exceeding the maximum operating temperature may damage LED chips by reducing 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.
- Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- 'Voltage drop' is a gradual decrease in voltage along a conductor through which current is flowing. When specifying an LED system, ensure to calculate voltage drop appropriately. Voltage drop calculators will suggest the proper gauge wire and distance to install the driver from the fixture. To meet maximum performance, the beginning of the tape light should be receiving no less than 3% of input power rating.
- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted.
- All fixture accessories including CLICKTIGHT connectors, DC connections, etc. have a Class 2 amperage rating unless otherwise noted (60W/5A @ 12V DC; 96W/4A @ 24V DC).
- Ensure wire leads at opposing ends of the tape light are not crossed when the fixture is turned on. It is acceptable to modify the length or cut off the attached wire leads and DC connections in the field.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- Lighting technology has some amount of gradual light degradation (output and/or color) over the lifespan of the products. Diode LED products are designed to minimize degradation, but some light degradation and color shift is a normal part of the life span of any LED lighting system.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY**Limited Warranty**

This LED fixture has a five (5) year limited warranty from the date of shipment. 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 under the 'Tools & Resources' tab. For warranty related questions, please contact customer service.

Consumer's Acknowledgment

Diode LED 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 right components is essential. Diode 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 Diode 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 Diode LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgement that the products purchased are designed and configured correctly. The purchaser 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. Diode LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Diode 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 Diode LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.