

Specified Item #	
Project	
Location	



Sign letter utilizing TRIOBRIGHT Modules



Sign letter lit up



Finished sign letter



SPECIFICATIONS

Input Voltage	12VDC constant voltage	
LED Chip Type	MONOBRIGHT™ DUOBRIGHT™ TRIOBRIGHT™ TRIOBRIGHT™ TILE	Epistar 3528 SMD Chip
	TRIOBRIGHT™ MINI	Epistar 5050 SMD Chip
	TRIOBRIGHT™ RGB	Epistar 5050 RGB Tri-Chip SMD
LED Chip CRI	70+	
Mounting	Includes attached 3M™ Adhesive and mounting holes (mounting holes unavailable on TRIOBRIGHT™ TILE module).	

Connections ¹	Solid Color: 20/2 AWG wire each end. RGB: 20/4 AWG wire each end.
Dimmability	Yes
Ambient Temperature ²	-4° ~ 122°F (-20° ~ 50°C)
Operating Temperature ³	-4° ~ 176°F (-20° ~ 80°C)
Environment ⁴	Outdoor / wet location
Warranty	5 years
Certifications	UL Component Recognized (United States & Canada)

- Note ¹** Ensure wire leads at opposing ends of modules 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 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.
- Note ³** 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.
- Note ⁴** Do not install near or around chlorinated/treated water. This product is not rated as submersible. Do not install in direct sunlight.
- Note ⁵** LED chips have a luminous flux range with a tolerance of +/- 5%. In other words, lumen output may vary +/- 5%.
- Note ⁶** Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

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SPECIFICATIONS

**MONOBRIGHT™
LED Light Module**



Item #	Dimensions	Color Temp	Lumens ⁵	Quantity
DI-12V-MB65	1.18 x 0.53 x 0.31 in	6500K	20 Per Module	50 Per Strand

MONOBRIGHT Specifications

Input Voltage	Power Consumption / Module	Wire Length Between Modules	Maximum Run ⁶	Beam Angle	LEDs / MODULE
12V DC	0.28W / 23mA	3.6 in.	50 Modules	120°	1

**DUOBRIGHT™
LED Light Module**



Item #	Dimensions	Color Temp	Lumens ⁵	Quantity
DI-12V-DB65	2.4 x 0.55 x 0.28 in	6500K	36 Per Module	20 Per Strand

DUOBRIGHT Specifications

Input Voltage	Power Consumption / Module	Wire Length Between Modules	Maximum Run ⁶	Beam Angle	LEDs / MODULE
12V DC	0.48W / 40mA	4 in.	30 Modules	120°	2

**TRIOBRIGHT™
TILE LED Light Module**



Item #	Dimensions	Color Temp	Lumens ⁵	Quantity
DI-12V-TT65	1.42 x 1.42 x 0.16 in	6500K	50 Per Module	20 Per Strand

TRIOBRIGHT TILE Specifications

Input Voltage	Power Consumption / Module	Wire Length Between Modules	Maximum Run ⁶	Beam Angle	LEDs / MODULE
12V DC	0.72W / 60mA	5.8 in.	30 Modules	120°	3

**TRIOBRIGHT™
LED Light Module**



Item #	Dimensions	Color Temp.	Lumens ⁵	Quantity
DI-12V-TB65	3.6 x 0.55 x 0.28 in	6500K	50 Per Module	20 Per Strand

TRIOBRIGHT Specifications

Input Voltage	Power Consumption / Module	Wire Length Between Modules	Maximum Run ⁶	Beam Angle	LEDs / MODULE
12V DC	0.72W / 60mA	6.6 in.	30 Modules	120°	3

**TRIOBRIGHT™
MINI LED Light Module**



Item #	Dimensions	Color Temp	Lumens ⁵	Quantity
DI-12V-TM65	1.97 x 0.4 x 0.12 in	6500K	18 Per Module	20 Per Strand

TRIOBRIGHT MINI Specifications

Input Voltage	Power Consumption / Module	Wire Length Between Modules	Maximum Run ⁶	Beam Angle	LEDs / MODULE
12V DC	0.24W / 20mA	4 in.	30 Modules	120°	3

**TRIOBRIGHT™
RGB LED Light Module**



Item #	Dimensions	Color Temp	Lumens ⁵	Quantity
DI-12V-TRGB	2.78 x 0.47 x 0.28 in	RGB Color Changing	14 max. Per Module	25 Per Strand

TRIOBRIGHT RGB Specifications

Input Voltage	Power Consumption / Module	Wire Length Between Modules	Maximum Run ⁶	Beam Angle	LEDs / MODULE
12V DC	0.72W / 60mA	6 in.	30 Modules	120°	3

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.
- 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 modules when tightly coiled. Excess heat may damage 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.
- All fixture accessories including 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 modules are not crossed when the fixture is turned on. It is acceptable to modify the length or cut off the attached wire leads 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.